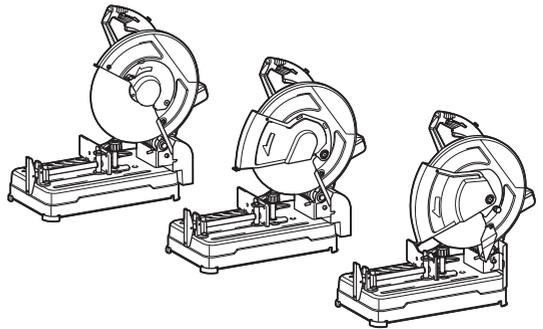


INSTRUCTION MANUAL



Cordless Portable Cut-off DLW140



Read before use.

SPECIFICATIONS

Model:		DLW140
Wheel diameter		355 mm
Hole diameter		25.4 mm
Max. wheel thickness		3 mm
No load speed		3,800 min ⁻¹
Rated voltage		D.C. 36 V
Dimensions (L x W x H)	With European type safety guard	537 mm x 290 mm x 640 mm
	With safety guard other than European type	537 mm x 280 mm x 640 mm
	With center cap type safety guard	537 mm x 280 mm x 640 mm
Net weight	With European type safety guard	17.2 - 17.8 kg
	With safety guard other than European type	15.6 - 16.3 kg
	With center cap type safety guard	15.4 - 16.0 kg

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge. The lightest and heaviest combination, according to EPTA-Procedure 01/2014, are shown in the table.
- The shape and weight vary depending on the specifications which differ country to country.

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.

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



Wear safety glasses.



Read instruction manual.



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 collected separately and returned to an environmentally compatible recycling facility.

Intended use

The tool is intended for cutting in ferrous materials with appropriate abrasive cut-off wheel. Follow all laws and regulations regarding dust and work area health and safety in your country.

Noise

The typical A-weighted noise level determined according to EN62841-3-10:
Sound pressure level (L_{pA}) : 103 dB(A)
Sound power level (L_{WA}) : 115 dB (A)
Uncertainty (K) : 3 dB(A)

⚠ WARNING: Wear ear protection.

Vibration

The vibration total value (tri-axial vector sum) determined according to EN62841-3-10:
Vibration emission (a_h) : 2.5 m/s²
Uncertainty (K) : 1.5 m/s²

NOTE: The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.

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

⚠WARNING: The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.

⚠WARNING: Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

EC Declaration of Conformity

For European countries only

The EC declaration of conformity is included as Annex A to this instruction manual.

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.
2. **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.

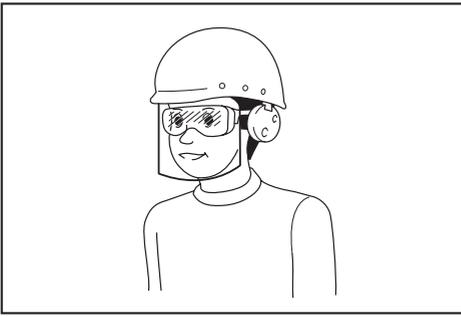
Electrical Safety

1. **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.
2. **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.
5. **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.
6. **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.
7. **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

1. **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.
2. **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.
7. **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.
9. **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

1. **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.
2. **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.
3. **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.
4. **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.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **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.
9. **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

1. **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 designed 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.
5. **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.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
7. **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

1. **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.**

Cut-off machine safety warnings

1. **Position yourself and bystanders away from the plane of the rotating wheel.** The guard helps to protect the operator from broken wheel fragments and accidental contact with wheel.
2. **Use only bonded reinforced cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure safe operation.
3. **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
4. **Wheels must be used only for recommended applications. For example: do not grind with the side of a cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.

5. **Always use undamaged wheel flanges that are of correct diameter for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.
 6. **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
 7. **The arbour size of wheels and flanges must properly fit the spindle of the power tool.** Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
 8. **Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If the power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.** Damaged wheels will normally break apart during this test time.
 9. **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
 10. **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken wheel may fly away and cause injury beyond immediate area of operation.
 11. **Regularly clean the power tool's air vents.** The motor's fan can draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
 12. **Do not operate the power tool near flammable materials. Do not operate the power tool while placed on a combustible surface such as wood.** Sparks could ignite these materials.
 13. **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.
1. **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces.** The operator can control upward kickback forces, if proper precautions are taken.
 2. **Do not position your body in line with the rotating wheel.** If kickback occurs, it will propel the cutting unit upwards toward the operator.
 3. **Do not attach a saw chain, woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade.** Such blades create frequent kickback and loss of control.
 4. **Do not "jam" the wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
 5. **When the wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the cutting unit motionless until the wheel comes to a complete stop. Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
 6. **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
 7. **Support any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

Additional safety warnings

1. **Watch out for flying sparks when operating.** They can cause injury or ignite combustible materials.
2. **Secure work. Use clamps or a vise to hold work when practical.** It's safer than using your hand and it frees both hands to operate tool.
3. **Secure the cut-off wheel carefully.**
4. **Be careful not to damage the spindle, flanges (especially the installing surface) or bolt, or the cut-off wheel itself might break.**
5. **Keep guards in place and in working order.**
6. **Hold the handle firmly.**
7. **Keep hands away from rotating parts.**
8. **Make sure the cut-off wheel is not contacting the work-piece before the switch is turned on.**
9. **Before each use, watch for flutter or excessive vibration that might be caused by poor installation or a poorly balanced wheel.**
10. **Remove material or debris from the area that might be ignited by sparks. Be sure that others are not in the path of the sparks. Keep a proper, charged fire extinguisher closely available.**
11. **If the cut-off wheel stops during the operation, makes an odd noise or begins to vibrate, switch off the tool immediately.**

Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled cutting unit to be forced upwards toward the operator. For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- Always switch off and wait for the cut-off wheel to come to a complete stop before removing, securing workpiece, working vise, changing work position, angle or the cut-off wheel itself.
- Do not touch the workpiece immediately after operation; it is extremely hot and could burn your skin.
- Store wheels in a dry location only.

- 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.

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.
- Do not disassemble battery cartridge.
- 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.
- Do not short the battery cartridge:
 - Do not touch the terminals with any conductive material.
 - Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
 - 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).
- 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.
- Be careful not to drop or strike battery.
- Do not use a damaged battery.
- 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.
- Follow your local regulations relating to disposal of battery.

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

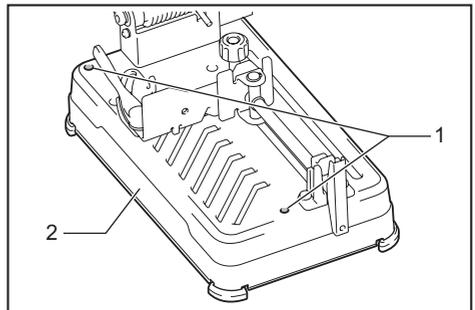
- Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
- Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
- Charge the battery cartridge with room temperature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

INSTALLATION

⚠ WARNING: This tool produces spark when cutting a workpiece. Do not install this tool in the place in which flammable and/or explosive materials might be ignited by the spark from the tool. Also make sure that there is no such material near the tool before starting the operation.

Securing the base

This tool should be bolted with two bolts to a level and stable surface using the bolt holes provided in the tool's base. This will help prevent tipping over and possible personal injury.



► 1. Bolt holes 2. Base

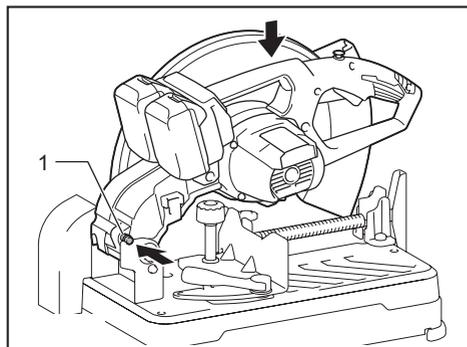
FUNCTIONAL DESCRIPTION

⚠ WARNING: Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking the functions on the tool. Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.

Unlocking/locking tool head

The tool head can be locked. Always lock the tool head when not in use or carrying.

To unlock, depress the tool head slightly and push the lock pin. To lock, return the lock pin while holding down the tool head.

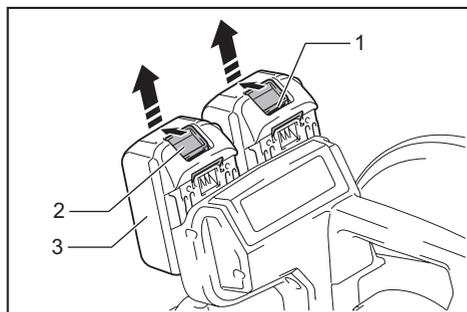


► 1. Lock pin

Installing or removing battery cartridge

⚠ CAUTION: Always switch off the tool before installing or removing of the battery cartridge.

⚠ CAUTION: 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.

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

NOTE: The tool does not work with only one battery cartridge.

Tool / battery protection system

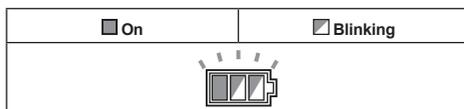
The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions.

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.

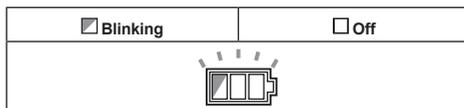
Overheat protection

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.

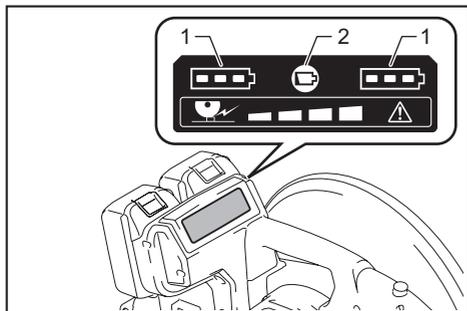


Overdischarge protection

When the battery capacity becomes low, the tool stops automatically and the battery indicator of the depleted battery cartridge will blink. If the product does not operate even when the switches are operated, remove the depleted battery cartridge from the tool and charge it.



Indicating the remaining battery capacity



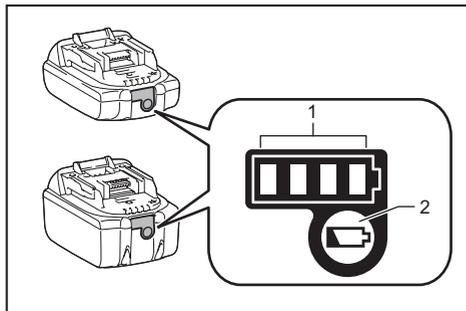
► 1. Battery indicator 2. Check button

Press the check button to indicate the remaining battery capacities. The battery indicators correspond to each battery.

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

Indicating the remaining battery capacity

Only for battery cartridges with the indicator



► 1. Indicator lamps 2. Check button

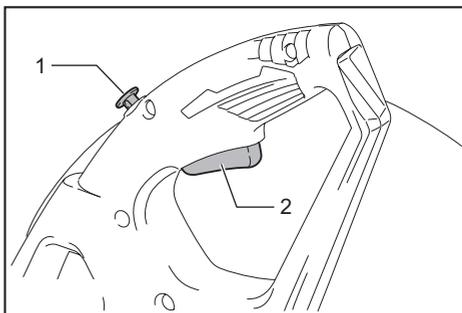
Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.

Indicator lamps			Remaining capacity
Lighted	Off	Blinking	
			75% to 100%
			50% to 75%
			25% to 50%
			0% to 25%
			Charge the battery.
			The battery may have malfunctioned.

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.



► 1. Lock-off button 2. Switch trigger

To prevent the switch trigger from being accidentally pulled, a lock-off button is provided. To start the tool, press the lock-off button and pull the switch trigger. Release the switch trigger to stop.

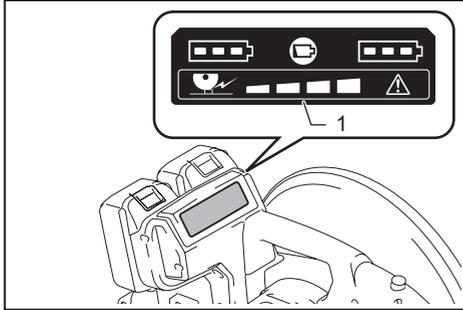
WARNING: NEVER defeat the lock-off button by taping down or some other means. A switch with a negated lock-off button may result in unintentional operation and serious personal injury.

WARNING: 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.

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

Load status indicator

The load status indicator shows the level of the load on the motor during cutting operation. As the load on the motor increases, the number of lighting lamp increases.



► 1. Load status indicator

Overload alert

If the motor is operated with excessive load, all lamps of the load status indicator will blink. In this case, reduce the load on the motor. If you continue to load the motor while the load status indicator is blinking, the tool will automatically stop in few seconds due to overload protection.

NOTE: If an excessive load is generated at once, the tool automatically stops without blinking of the load status indicator.

Interval between vise and guide plate

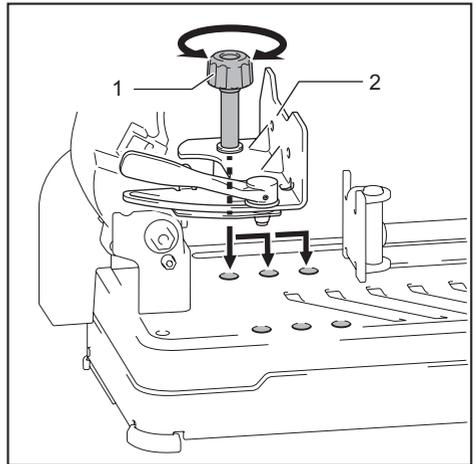
CAUTION: After adjusting the interval between the vise and the guide plate, make sure that the guide plate is properly secured. Insufficient fixing may result in personal injury.

The following interval settings of the vise are available:

- 0 - 170 mm (original setting)
- 35 - 205 mm
- 70 - 240 mm

If your work requires different setting, proceed as follows to change the spacing or interval.

Loosen the screw on the guide plate. Move the guide plate to the desired position then tighten the screw.



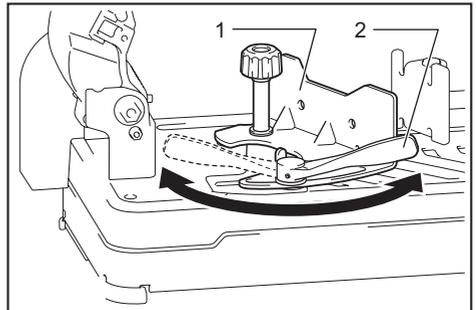
► 1. Screw 2. Guide plate

Cutting angle adjustment

CAUTION: After adjusting the angle of the guide plate, make sure that the guide plate is properly secured. Insufficient fixing may result in personal injury.

CAUTION: Do not operate the tool when the material is not firmly secured with the vise because of the cutting angle.

Turn the lever counterclockwise. Move the guide plate to the desired angle and fully tighten the lever.



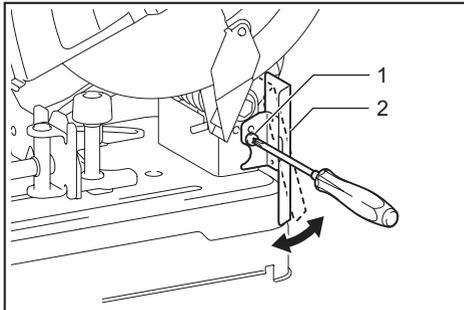
► 1. Guide plate 2. Lever

NOTE: The scale on the guide plate is only a rough indication. For more accurate angle, use a protractor or triangle ruler. Keep the handle down so that the cut-off wheel extends into the base. At the same time, adjust the angle between the guide plate and the cut-off wheel with a protractor or triangle ruler.

Spark guard adjustment

Country specific

The spark guard is factory-installed with its lower edge contacting the base. Operating the tool in this position will cause many sparks to fly around. Loosen the screw and adjust the spark guard to a position at which minimum sparks will fly around.



► 1. Screw 2. Spark guard

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.

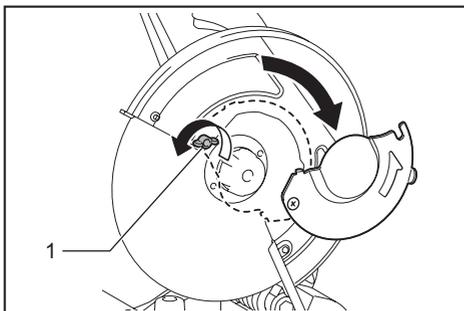
ASSEMBLY

⚠ WARNING: Always be sure that the tool is switched off and the battery cartridge is removed before working on the tool. Failure to switch off and remove the battery cartridge may result in serious personal injury.

Opening center cap type safety guard

Country specific

For the tools equipped with center cap type safety guard, loosen the clamping screw first then raise the guard.

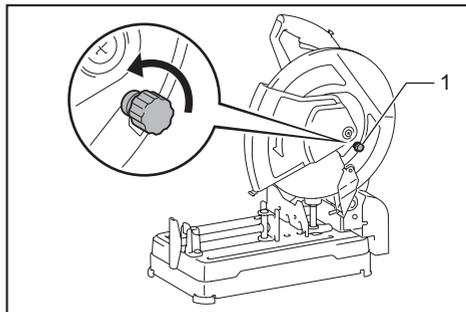


► 1. Clamping screw

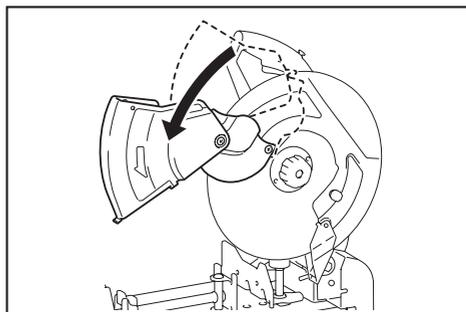
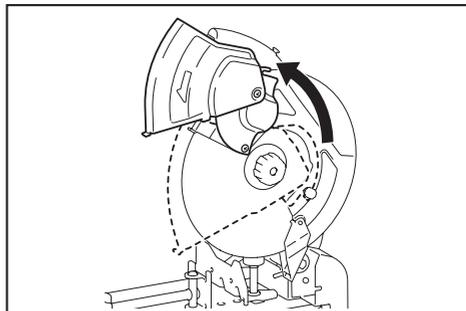
Opening European type safety guard

Country specific

For the tools equipped with European type safety guard, loosen the clamping screw first then open the guard as shown.



► 1. Clamping screw



Removing or installing cut-off wheel

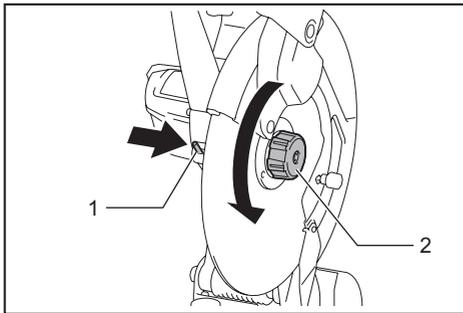
CAUTION: Be sure to tighten the toolless clamp securely. Insufficient tightening may result in severe injury.

CAUTION: Always use only the proper inner and outer flanges which are provided with the tool.

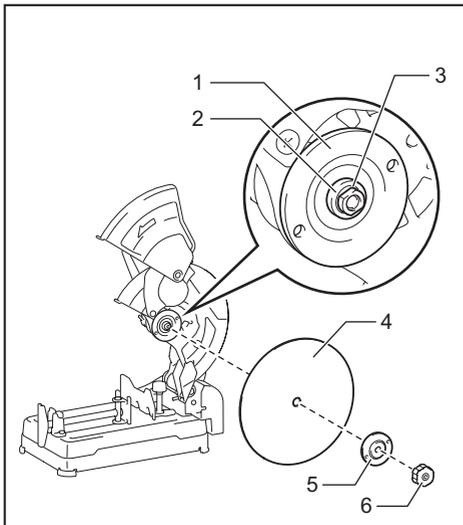
CAUTION: Always lower the safety guard after replacing the cut-off wheel.

CAUTION: Wear gloves when handling wheels.

Raise the safety guard. Turn the toolless clamp counterclockwise while holding down the shaft lock. Then remove the toolless clamp, outer flange and cut-off wheel. When removing the cut-off wheel, do not remove the inner flange as well as the ring and O-ring.



► 1. Shaft lock 2. Toolless clamp



► 1. Inner flange 2. Ring 3. O-ring 4. Cut-off wheel
5. Outer flange 6. Toolless clamp

To install the cut-off wheel, follow the removal procedures in reverse. Make sure to fit the hole of cut-off wheel to the ring and return the safety guard.

OPERATION

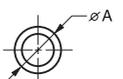
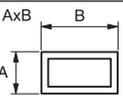
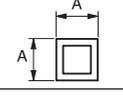
CAUTION: Proper handle pressure during cutting and maximum cutting efficiency can be determined by the amount of sparks that is produced while cutting. Do not force the cut by applying excessive pressure on the handle. Reduced cutting efficiency, premature wheel wear, as well as, possible damage to the tool, cut-off wheel or workpiece may result.

Hold the handle firmly. Switch on the tool and wait until the cut-off wheel attains full speed before lowering gently into the cut. When the cut-off wheel contacts the workpiece, gradually bear down on the handle to perform the cut. When the cut is completed, switch off the tool and **wait until the cut-off wheel has come to a complete stop** before returning the handle to the fully elevated position.

Cutting capacity

Maximum cutting capacity varies depending on the cutting angle and workpiece shape.

Max. cutting capacity with a brand-new cut-off wheel

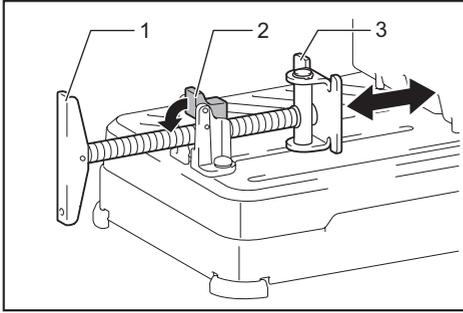
Cutting angle / Workpiece shape	90°	45°
	∅ 127 mm	∅ 127 mm
	115 x 130 mm 102 x 194 mm 70 x 233 mm	115 x 103 mm
	119 x 119 mm	106 x 106 mm
	137 x 137 mm	100 x 100 mm

NOTE: A workpiece thinner than 1.6 mm is recommended for cutting with this tool.

Securing workpiece

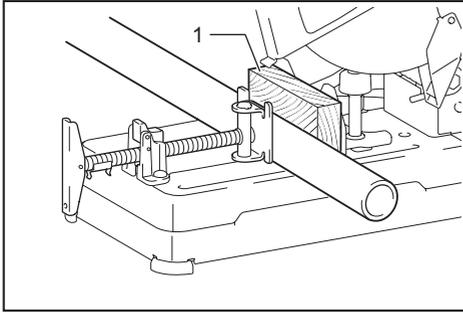
CAUTION: Always place the thread holder on the shaft threads when securing the workpiece. Failure to do so may result in insufficient securing of the workpiece. This could cause the workpiece to be ejected or cause a dangerous breakage of the cut-off wheel.

While the thread holder is lifted, the vise plate can be moved in and out quickly. To grip a workpiece, push the handle until the vise plate contacts the workpiece then return the thread holder. Turn the handle clockwise until the workpiece is securely retained.



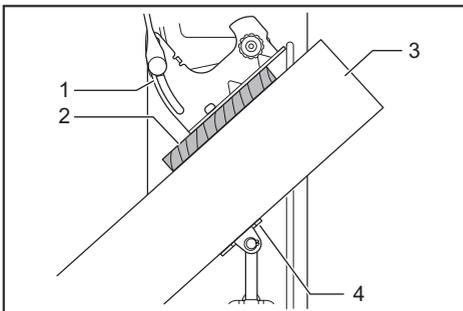
► 1. Handle 2. Thread holder 3. Vise plate

When the cut-off wheel has worn down considerably, place a spacer block behind the workpiece as shown in the figure. You can more efficiently utilize the worn wheel by using the mid point on the periphery of the wheel to cut the workpiece. This will help you to utilize the cut-off wheel economically.



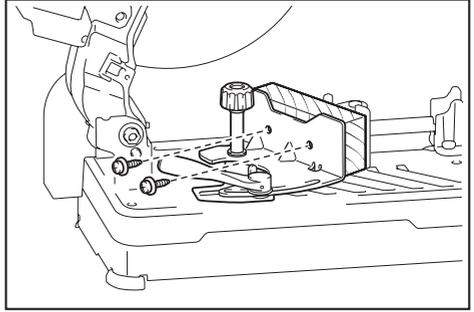
► 1. Spacer block

When cutting workpieces over 85 mm wide at an angle, attach a straight piece of wood (spacer) over 190 mm long x 40 mm wide to the guide plate as shown in the figure. Attach this spacer with screws through the holes in the guide plate. Make sure that the cut-off wheel does not contact the spacer when the tool head is depressed.

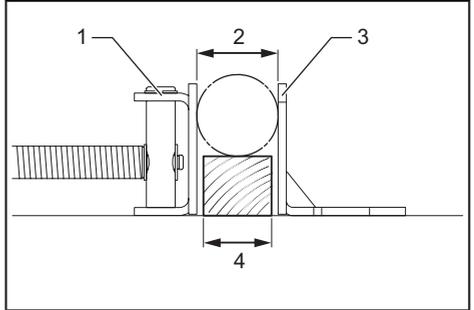


► 1. Guide plate 2. Spacer block (over 190 mm long x40 mm wide) 3. Workpiece (over 85 mm wide) 4. Vise plate

NOTICE: When using a spacer block, install the guide plate to the position nearest to the neck of the tool head.

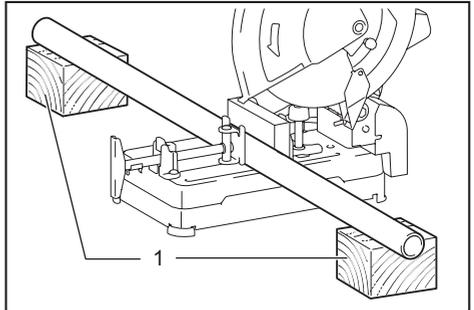


When the cut-off wheel has worn down, raise the cutting position by putting a spacer block which is slightly narrower than the workpiece as shown in the figure. This will help you to utilize the cut-off wheel economically.



► 1. Vise plate 2. Workpiece diameter 3. Guide plate 4. Spacer block width

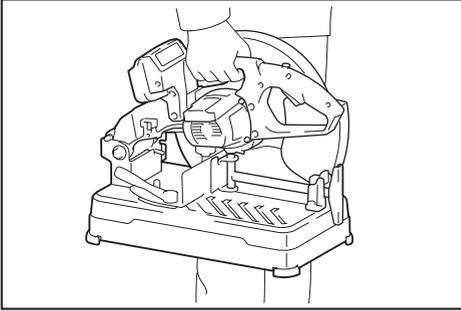
Long workpieces must be supported by blocks on either side so that it will be level with the base top. Use non-flammable material for supporting blocks.



► 1. Supporting block

Carrying tool

Before carrying, remove the batteries and fold down the tool head, and then lock it. Hold the handle when carrying.



MAINTENANCE

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

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.

OPTIONAL ACCESSORIES

CAUTION: 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.

- Abrasive cut-off wheels
- 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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