

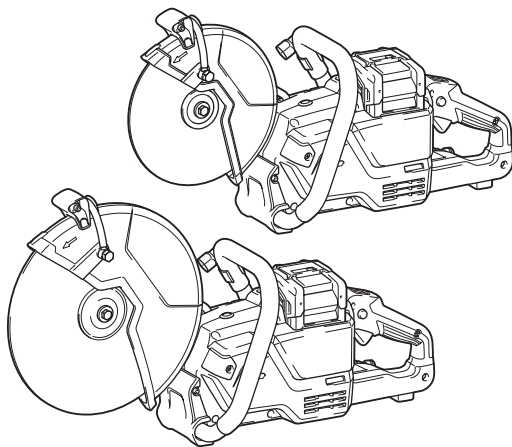
INSTRUCTION MANUAL



# Cordless Power Cutter

**CE003G**

**CE004G**



Read before use.

# SPECIFICATIONS

Model:	CE003G	CE004G
Wheel diameter	230 mm	305 mm
Max. wheel thickness	3.0 mm	5.0 mm
Max. cutting depth	88 mm	121 mm
Rated speed	6,600 min <sup>-1</sup>	5,000 min <sup>-1</sup>
Rated voltage	D.C. 36 V - 40 V max	
Max. permitted pressure of feed-water	5 bars	
Overall length	603 mm	663 mm
Net weight	6.4 - 7.4 kg	6.7 - 7.7 kg
Protection degree	IPX4	

- 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 combinations, according to EPTA-Procedure 01/2014, are shown in the table.

## Applicable battery cartridge and charger

Battery cartridge	BL4040 / BL4040F* / BL4050F* / BL4080F* *: Recommended battery
Charger	DC40RA / DC40RB / DC40RC / DC40WA

- 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.



## Recommended cord connected power source

Portable power pack	PDC1200 / PDC1500
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- The cord connected power source(s) listed above may not be available depending on your region of residence.
- Before using the cord connected power source, read instruction and cautionary markings on them.

## Symbols

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

	Read instruction manual.
	Wear eye protection.



Only for EU countries  
Due to the presence of hazardous components in the equipment, waste electrical and electronic equipment, accumulators and batteries may have a negative impact on the environment and human health.

Do not dispose of electrical and electronic appliances or batteries with household waste!

In accordance with the European Directive on waste electrical and electronic equipment and on accumulators and batteries and waste accumulators and batteries, as well as their adaptation to national law, waste electrical equipment, batteries and accumulators should be stored separately and delivered to a separate collection point for municipal waste, operating in accordance with the regulations on environmental protection.

This is indicated by the symbol of the crossed-out wheeled bin placed on the equipment.

## Intended use

The tool is intended for cutting in metal materials with an abrasive cut-off wheel and also masonry materials with a diamond wheel.

## Noise

The typical A-weighted noise level determined according to EN60745-2-22:

Model	Sound pressure level ( $L_{p(A)}$ ) : (dB(A))	Sound power level ( $L_{w(A)}$ ) : (dB(A))	Uncertainty (K) : (dB(A))
CE003G	105	116	3
CE004G	99	110	3

**NOTE:** The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

**NOTE:** The declared noise emission value(s) may also be used in a preliminary assessment of exposure.

**⚠ WARNING:** Wear ear protection.

**⚠ WARNING:** The noise emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

**⚠ 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).

## Vibration

Work mode: concrete cutting

Model	Left hand		Right hand		Applicable standard
	$a_{h,w}$ ( $m/s^2$ )	Uncertainty K ( $m/s^2$ )	$a_{h,w}$ ( $m/s^2$ )	Uncertainty K ( $m/s^2$ )	
CE003G	3.0	1.5	2.5	1.5	EN60745-2-22
CE004G	3.8	1.5	2.5	1.5	EN60745-2-22

**NOTE:** The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

**NOTE:** The declared vibration total value(s) 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 value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

**⚠ 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).

## Declarations of Conformity

*For European countries only*

The Declarations of conformity are included in 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.

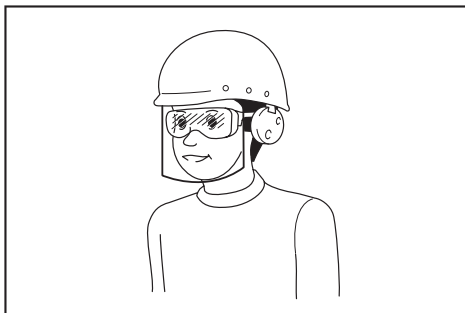
### Work area safety

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.



**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.**

#### **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.**

#### **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.**

## Cordless cutter safety warnings

1. **The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel.** The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
2. **Use only bonded reinforced or diamond cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure safe operation.
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 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. **Do not use worn down reinforced wheels from larger power tools.** Wheels intended for a larger power tool are not suitable for the higher speed of a smaller tool and may burst.
7. **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.
8. **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.
9. **Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.** Damaged wheels will normally break apart during this test time.
10. **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.
11. **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.
12. **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
13. **Never lay the power tool down until the accessory has come to a complete stop.** The spinning wheel may grab the surface and pull the power tool out of your control.
14. **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
15. **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
16. **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

### Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power tool to be forced in the direction opposite of the wheel's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

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

1. **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
2. **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
3. **Do not position your body in line with the rotating wheel.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
4. **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
5. **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.
6. **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.
7. **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
8. **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.
9. **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

10. **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

### Additional Safety Warnings:

1. **Before using a segmented diamond wheel, make sure that the diamond wheel has the peripheral gap between segments of 10 mm or less, only with a negative rake angle.**
2. **Never attempt to cut with the tool held upside down in a vise. This can lead to serious accidents, because it is extremely dangerous.**
3. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**
4. **Store wheels as per manufacturer recommendations. Improper storage may damage the wheels.**
5. **Always use the wheel suitable for your work and the material to be cut.**
6. **Examine the material to be cut before cutting.** If the material contains explosive or flammable substances, it may cause an explosion or fire.
7. **Do not switch on the tool if a foreign object is jammed between the guard and the wheel.** In this case, uninstall the battery cartridge and remove the foreign object.
8. **Use clamps or similar to support the workpiece whenever possible.**
9. **Always wear hearing protection during operation.**
10. **Do not cut wood materials with this tool.**
11. **The outside diameter and the thickness of the wheel must be within the capacity rating of your power tool.** Incorrectly sized wheels cannot be adequately guarded or controlled.
12. **When operating the power tool, maintain a firm grip with both hands on the power tool and position your body and arm to allow you to resist kickback forces.**
13. **Keep your hands or face away from the rotating wheel.**
14. **Adjust the wheel cover to a position suitable for your work.**
15. **When you use the tool on muddy ground, wet slope, or slippery place, pay attention to your footing.**
16. **Do not submerge the tool into a puddle.**
17. **Do not leave the tool unattended outdoors in the rain.**
18. **Do not replace the battery in the rain.**
19. **When storing the tool, avoid direct sunlight and rain, and store it in a place where it does not get hot or humid.**

## SAVE THESE INSTRUCTIONS.

**⚠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

1. 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 or tamper with the battery cartridge. It may result in a fire, excessive heat, or explosion.
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.
4. 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.

6. Do not store and use 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. Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge. Such conduct may result in a fire, excessive heat, or explosion.
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. When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. 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.

13. If the tool is not used for a long period of time, the battery must be removed from the tool.
14. During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.
15. Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.
16. Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge. It may cause heating, catching fire, burst and malfunction of the tool or battery cartridge, resulting in burns or personal injury.
17. Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines. It may result in a malfunction or breakdown of the tool or battery cartridge.
18. Keep the battery away from children.

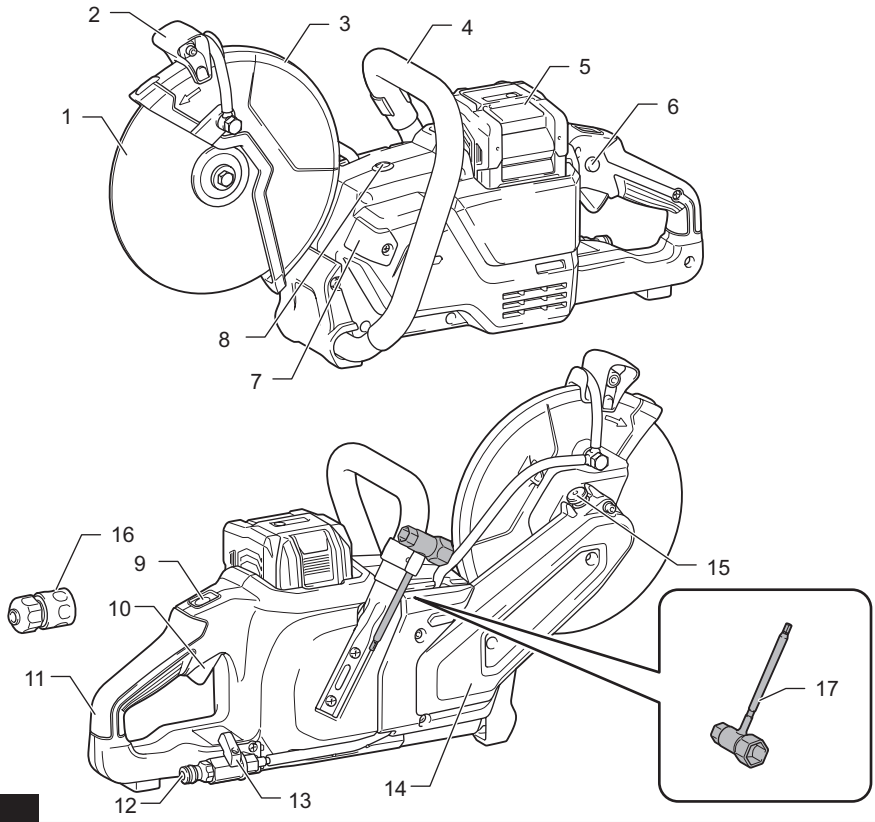
## SAVE THESE INSTRUCTIONS.

**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.
3. 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. When not using the battery cartridge, remove it from the tool or the charger.
5. Charge the battery cartridge if you do not use it for a long period (more than six months).

# PARTS DESCRIPTION



**Fig.1**

1	Abrasive cut-off wheel / diamond wheel	2	Wheel cover grip	3	Wheel guard	4	Grip
5	Battery cartridge	6	Lock-off button	7	Lamp	8	Overload indicator
9	Lamp button	10	Switch trigger	11	Handle	12	Water inlet
13	Cock	14	Cover (for synchro-belt)	15	Shaft lock button	16	Coupling sleeve
17	Box wrench (hex wrench-shaped handle tip)						



## FUNCTIONAL DESCRIPTION

**CAUTION:** 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 the battery cartridge

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

**CAUTION:** Hold the tool and the battery cartridge firmly when installing or removing the battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip out of your hands and result in damage to the tool and battery cartridge and personal injury.

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 as shown in the figure, it is not locked completely.

To remove the battery cartridge, lift the battery cartridge while pushing the button on the front of the cartridge.

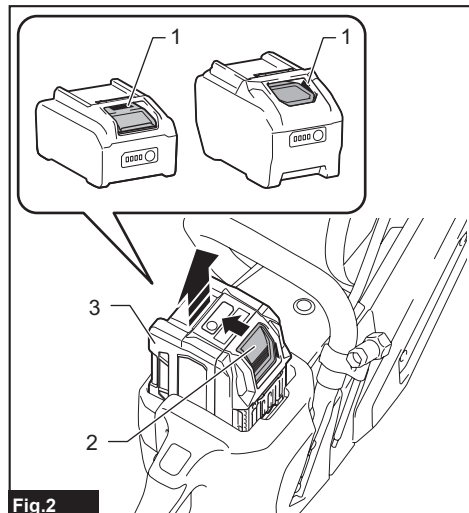


Fig.2

► 1. Red indicator 2. Button 3. Battery cartridge

**CAUTION:** Always install the battery cartridge fully until the red indicator cannot be seen. If not fully installed, 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.

## Indicating the remaining battery capacity

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

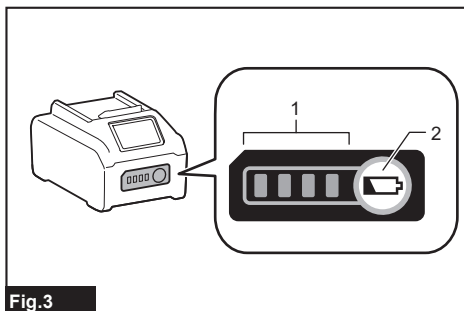


Fig.3

► 1. Indicator lamps 2. Check button

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.

**NOTE:** The first (far left) indicator lamp will blink when the battery protection system works.

## 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/battery 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/battery is overheated, the tool stops automatically, and the lamp blinks. 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 indicator lamp of battery cartridge blinks. If the tool does not operate even when the switches are operated, remove the batteries from the tool and charge the batteries.

## Protections against other causes

Protection system is also designed for other causes that could damage the tool and allows the tool to stop automatically. Take all the following steps to clear the causes, when the tool has been brought to a temporary halt or stop in operation.

1. Turn the tool off, and then turn it on again to restart.
2. Charge the battery(ies) or replace it/them with recharged battery(ies).
3. Let the tool and battery(ies) cool down.

If no improvement can be found by restoring protection system, then contact your local Makita Service Center.

**NOTICE:** If the tool stops due to a cause not described above, refer to the section for troubleshooting.

## Overload alert

If the tool is operated with excessive load, the overload indicator will blink in red. In this situation, reduce the load on the tool. Then, the indicator stops blinking.

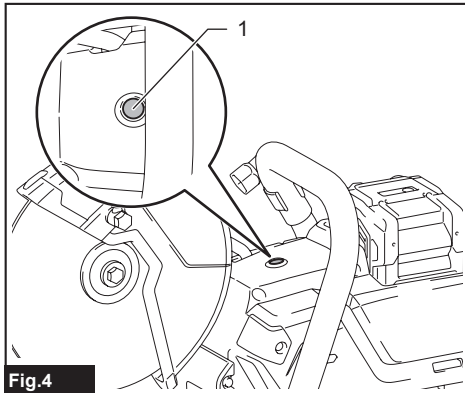


Fig.4

- 1. Overload indicator

## 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.

**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.

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.

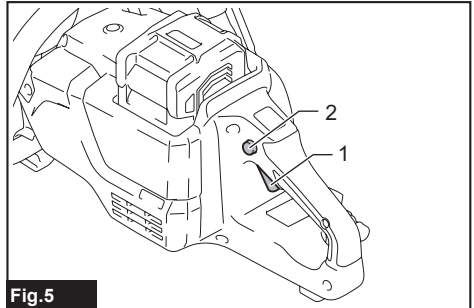


Fig.5

- 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.

## Lighting the lamp

**CAUTION:** Do not look into the light or look directly at the light source.

To turn on the lamp, press the lamp button. To turn off the lamp, press the lamp button again.

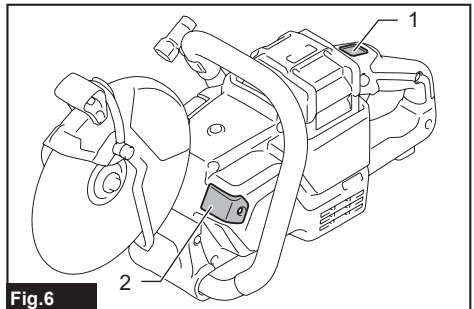


Fig.6

- 1. Lamp button 2. Lamp

**NOTE:** The lamp will automatically turn off if there is no operation with the tool for one minute.

## Adjusting the wheel cover

Hold the wheel cover grip and adjust the position of the wheel cover so it is suitable for your work.

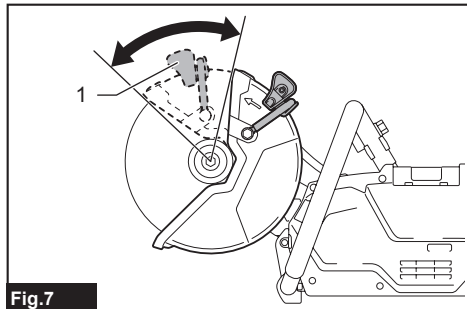


Fig.7

► 1. Wheel cover grip

## Electronic function

The tool is equipped with following electronic function for easy operation.

### Electric brake

This tool is equipped with an electric brake. If the tool consistently fails to quickly stop after the switch trigger is released, have the tool serviced at a Makita service center.

### Active Feedback sensing Technology

The tool electronically detects situations where the wheel or accessory may be at risk to be bound. In the situation, the tool is automatically shut off to prevent further rotation of the spindle (it does not prevent kick-back).

To restart the tool, switch off the tool first, remove the cause of the sudden drop in the rotation speed, and then turn the tool on again.

### Constant speed control

The speed control function provides the constant rotation speed regardless of load conditions.

### Accidental re-start preventive function

The tool does not start when the battery is installed while the switch is set to ON. To start the tool, turn off the switch, and turn it on again.

## ASSEMBLY

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

### Installing or removing the abrasive cut-off wheel / diamond wheel

**CAUTION:** Use only the Makita wrench to install or remove the wheel.

**CAUTION:** When installing the wheel, be sure to tighten the bolt securely.

**CAUTION:** Do not press the shaft lock button when the wheel is rotating.

**NOTICE:** Do not use wheels that are severely damaged, worn, or whose expiration date has passed. Malfunction, abnormal noise, or breakage may occur.

To remove the wheel, press the shaft lock button and rotate the wheel until the wheel cannot revolve. While the shaft lock is fully locked, turn the hex bolt counter-clockwise using the box wrench. Then remove the hex bolt, outer flange and wheel.

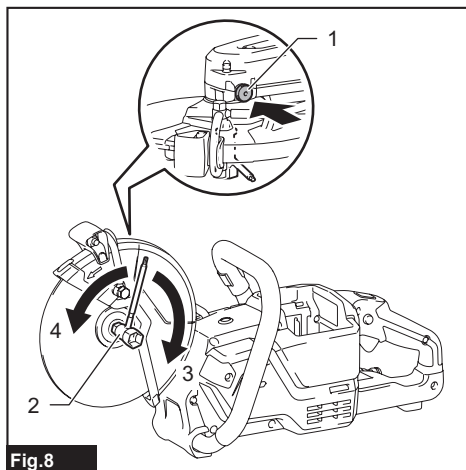
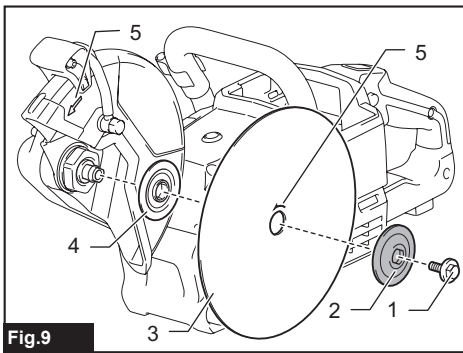


Fig.8

► 1. Shaft lock button 2. Box wrench 3. Tighten  
4. Loosen



**Fig.9**

- ▶ 1. Hex bolt 2. Outer flange (black) 3. Abrasive cut-off wheel / diamond wheel 4. Inner flange (silver) 5. Arrow (rotation direction of the wheel)

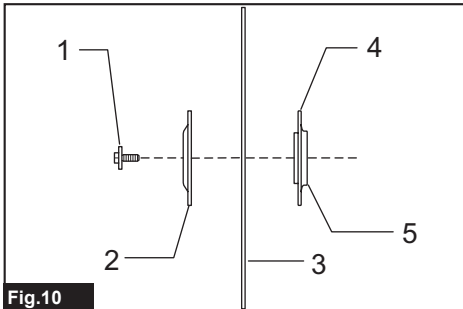
To install the wheel, follow the removal procedure in reverse.  
**BE SURE TO TIGHTEN THE HEX BOLT SECURELY.**

**⚠ CAUTION:** Always install the wheel so that the arrow on it points in the same direction as the arrow on the wheel guard. Otherwise, the wheel rotates in reverse, which may cause personal injury.

**⚠ CAUTION:** Only use a wheel that is marked with a speed equal to or higher than the speed marked on the tool.

**NOTE:** If an inner flange is removed by chance, install the inner flange so that taller protrusion faces the tool side as shown in the figure.

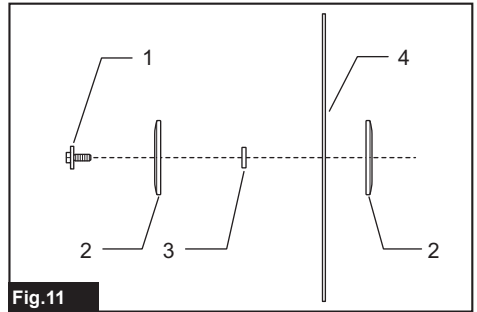
**CE003G (for the abrasive cut-off wheel / diamond wheel)**



**Fig.10**

- ▶ 1. Hex bolt 2. Outer flange 46 (black) 3. Abrasive cut-off wheel / diamond wheel 4. Inner flange 46 (silver) 5. Protrusion (taller)

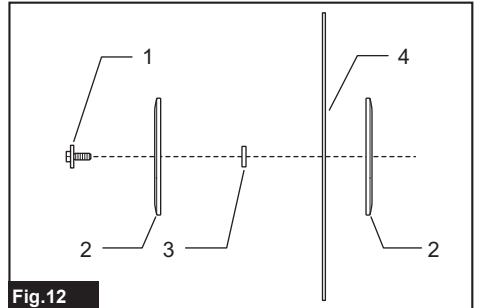
**CE004G (for the diamond wheel)**



**Fig.11**

- ▶ 1. Hex bolt 2. Flange 50 (black) 3. Ring 4. Diamond wheel

**CE004G (for the abrasive cut-off wheel)**

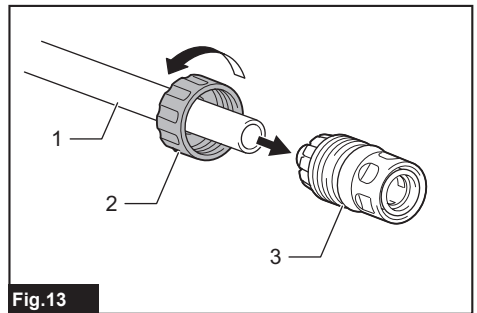


**Fig.12**

- ▶ 1. Hex bolt 2. Flange 80 (black) 3. Ring 4. Abrasive cut-off wheel

**Connecting to water supply**

1. Prepare a water hose.
2. Remove the nut on the coupling sleeve and pass the water hose through the nut. Insert the end of the hose into the coupling sleeve and then tighten the nut.



**Fig.13**

- ▶ 1. Water hose 2. Nut of the coupling sleeve 3. Coupling sleeve

### 3. Connect the water hose to the water supply.

When connecting to a water faucet, use a suitable fitting such as hose band or water tap joint.

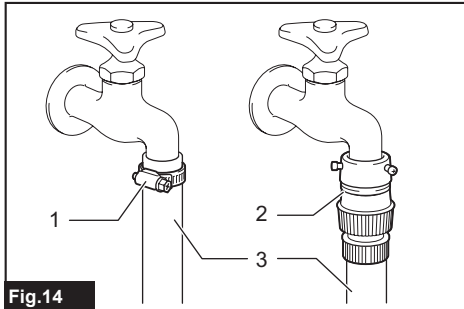


Fig.14

► 1. Hose band 2. Water tap joint 3. Water hose

**NOTE:** The fitting depends on the shape of the faucet to which you connect. Prepare a suitable commercially-bought fitting.

**NOTE:** If you use a water tap joint, prepare another coupling sleeve and attach it to the other end of the hose.

**NOTE:** When using a water pump, follow the instructions of your water pump to connect the water hose.

### 4. Push the coupling sleeve into the water inlet until it locks with a click.

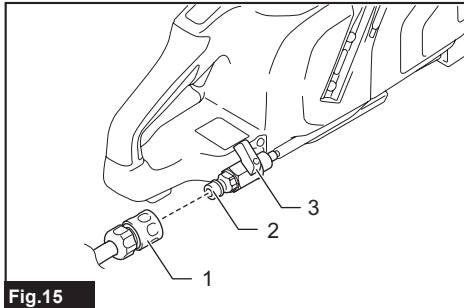


Fig.15

► 1. Coupling sleeve 2. Water inlet 3. Cock

**NOTICE:** Keep the cock closed until you start the cutting operation with water feeding. For how to feed water, refer to the section for the operation.

## OPERATION

**CAUTION:** Be sure to hold the workpiece firmly down on a stable bench or table during operation.

**CAUTION:** Do not twist or force the tool in the cut, or else the motor may be overloaded or the workpiece may break.

**CAUTION:** Do not touch the wheel or workpiece immediately after operation, as they may become hot and may cause burns.

## Cutting

**CAUTION:** During operation, do not bring the tool higher than your shoulder height.

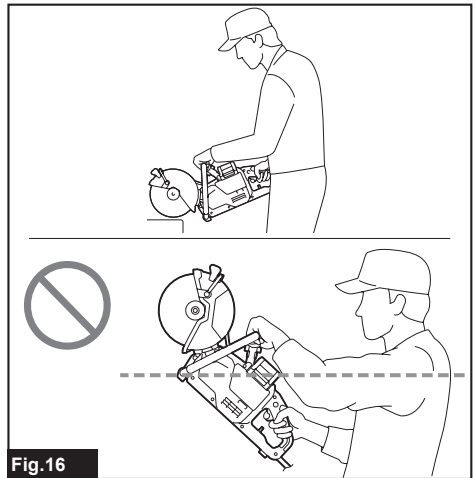


Fig.16

Hold the tool firmly. Grasp the handle with your right hand and the grip with your left hand. To prevent electric shock by accidental cutting of an electric cable, always hold the grip by the designated portion as shown in the figure.

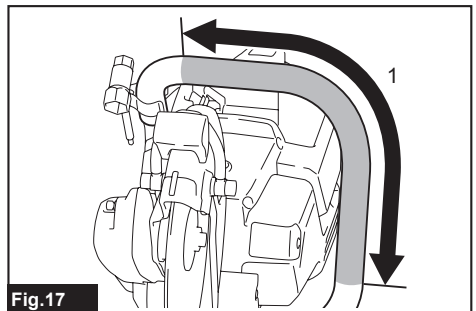


Fig.17

► 1. Part to hold

Move the tool over the workpiece surface, keeping it flat and advancing smoothly until the cutting is completed. Keep your cutting line straight and your speed of advance uniform.

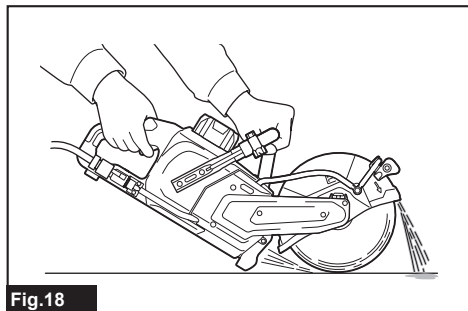


Fig.18

**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.

**NOTE:** If the cutting action of the diamond wheel begins to diminish, dress the cutting edge of the wheel using an old discarded coarse grit bench grinder wheel or concrete block. Dress by pressing lightly on the outer edge of the diamond wheel.

## When feeding water during cutting

**CAUTION:** When using a wet-type diamond wheel, always feed water during cutting.

Connect the tool to the water supply and turn the cock in the direction of the arrow as illustrated. Adjust the position of the cock to obtain a gentle flow of water.

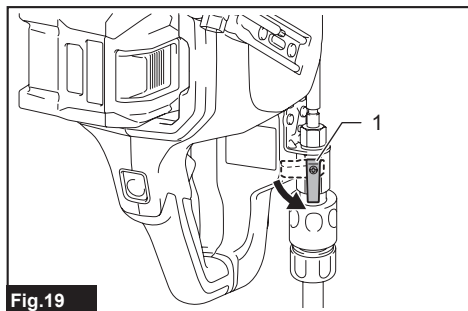


Fig.19

▶ 1. Cock

**CAUTION:** When feeding water, always keep the tool head lower than the tool body to prevent water entering into the tool mechanism. Failure to do so may cause electric shock.

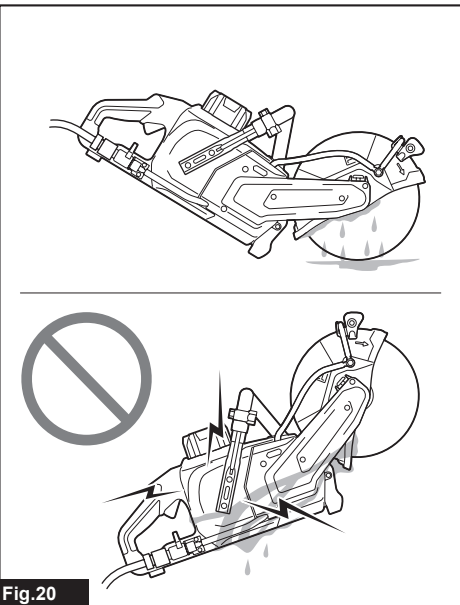


Fig.20

## 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.

## Cleaning the tool

After each use, remove the battery cartridge and the wheel and then clean dust, dirt or metal chips accumulated inside the wheel guard. Clean the tool body by wiping off dust, dirt with a dry cloth or one dipped in soapy water and wrung out. 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.

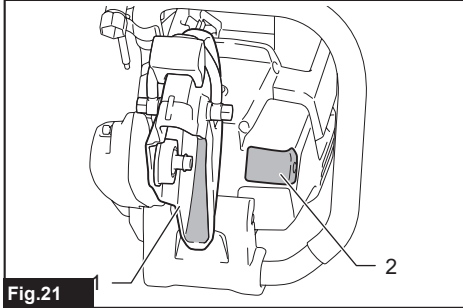


Fig.21

► 1. Wheel guard 2. Lens of the lamp

## Cleaning the air vent

Regularly clean the tool's air vents or whenever the vents start to become obstructed.

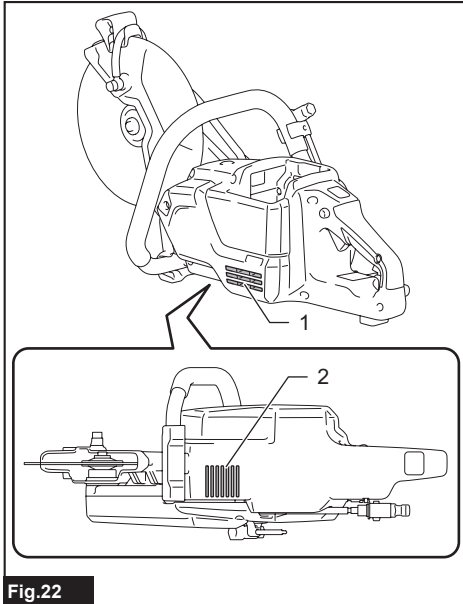


Fig.22

► 1. Inhalation vent 2. Exhaust vent

## Changing the synchro-belt

1. Remove the battery cartridge and the wheel.
2. Loosen the hex socket bolts using box wrench handle and then remove the cover.

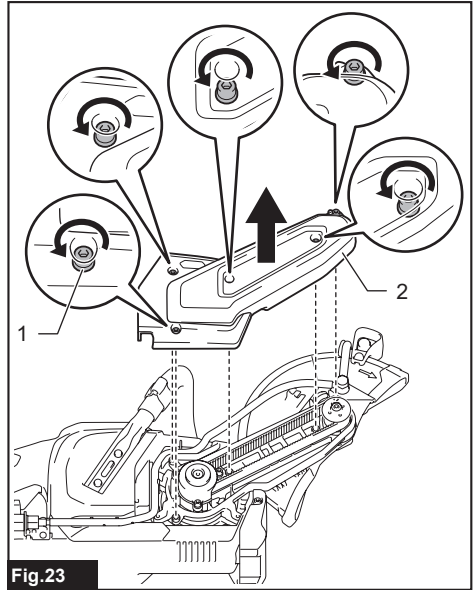


Fig.23

► 1. Hex socket bolt 2. Cover

3. Turn the hex socket bolts on the cover of pulley (driving) counterclockwise using box wrench handle and then remove the cover and the plate on the pulley.

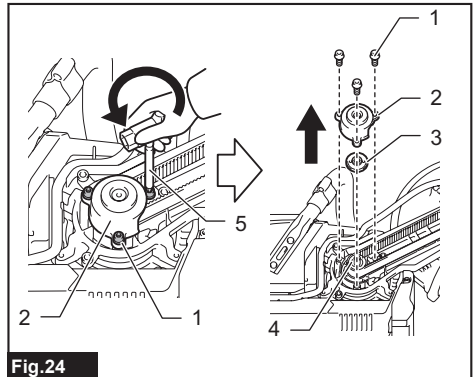
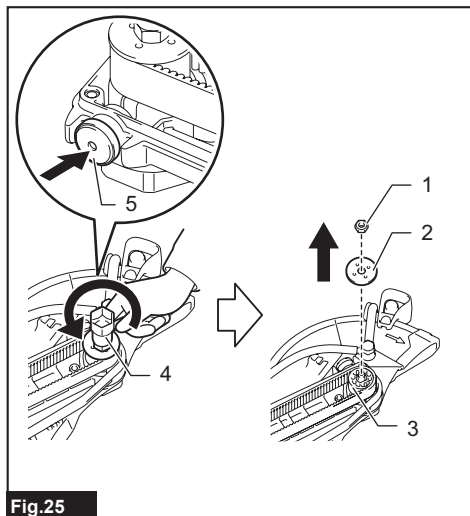


Fig.24

► 1. Hex socket bolt 2. Cover 3. Plate 4. Pulley (driving) 5. Box wrench (hex wrench-shaped handle tip)

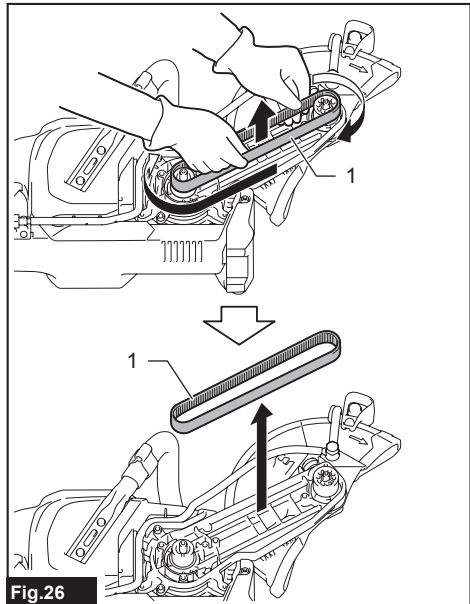
4. Push in the shaft lock button and hold it to lock the pulley (driven), turn the nut on the pulley (driven) counterclockwise using the box wrench, and then remove the nut and the plate on the pulley.



**Fig.25**

► 1. Nut 2. Plate 3. Pulley (driven) 4. Box wrench  
5. Shaft lock button

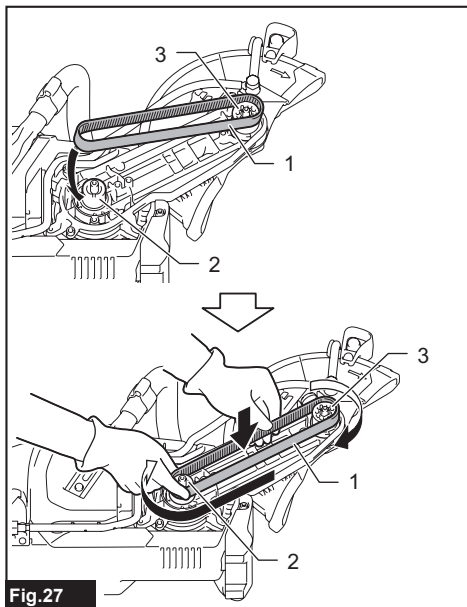
5. Move the synchro-belt around the pulleys to the right while pulling up until the synchro-belt comes off.



**Fig.26**

► 1. Synchro-belt

6. Hook the new synchro-belt on the teeth of the pulley (driven), with the teeth of the belt facing inside. Put the other end of the synchro-belt onto the pulley (driving) so that it is partially hooked on the teeth of the pulley. After that, move the synchro-belt around the pulleys to the right. The synchro-belt will get on the track as you turn.

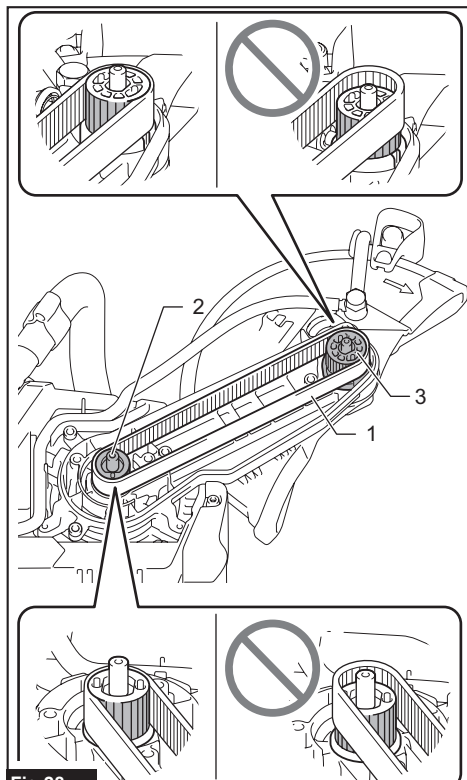


**Fig.27**

► 1. Synchro-belt 2. Pulley (driving) 3. Pulley (driven)



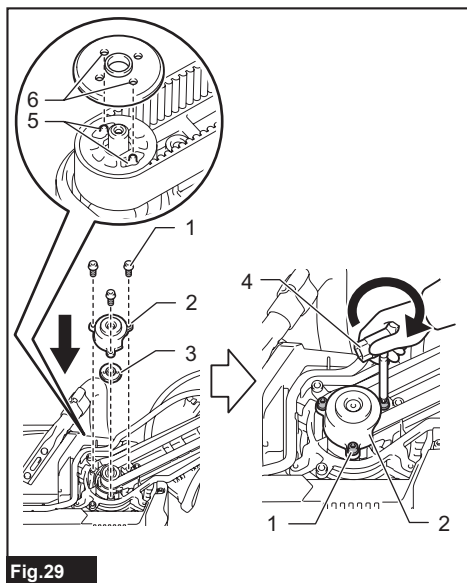
7. Make sure that all the teeth on the internal circle of the synchro-belt fit into the teeth on the pulleys. Move the synchro-belt around the pulleys and check for any abnormal noise or vibration.



**Fig.28**

► 1. Synchro-belt 2. Pulley (driving) 3. Pulley (driven)

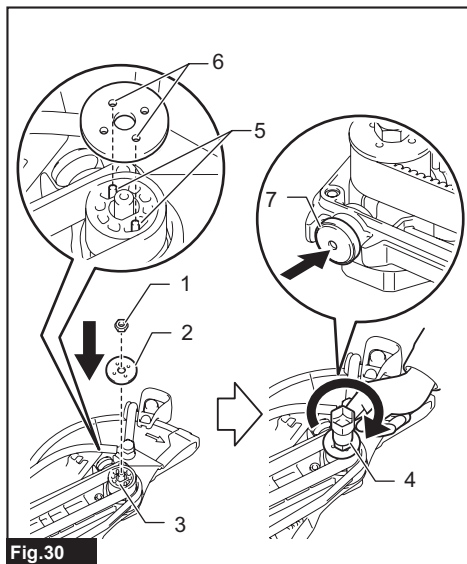
8. Align the pins on the pulley (driving) and the holes in the plate firmly, then put the cover on and tighten the hex socket bolts using box wrench handle.



**Fig.29**

► 1. Hex socket bolt 2. Cover 3. Plate 4. Box wrench (hex wrench-shaped handle tip) 5. Pins on the pulley 6. Holes in the plate

9. Align the pins on the pulley (driven) and the holes in the plate firmly, then push in the shaft lock button and hold it to lock the pulley (driven), and tighten the nut using the box wrench.



**Fig.30**

► 1. Nut 2. Plate 3. Pulley (driven) 4. Box wrench 5. Pins on the pulley 6. Holes in the plate 7. Shaft lock button

10. Place the cover onto the tool and tighten the hex socket bolts using the box wrench handle.

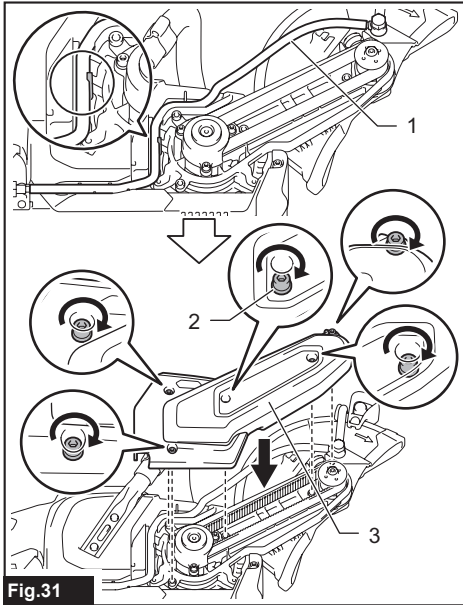


Fig.31

- 1. Tube 2. Hex socket bolt 3. Cover

**NOTICE:** Make sure that the tube for water feed is in the positions as shown in the figure before attaching the cover.

11. Install the battery.
12. Operate the tool with no load and check that there is no abnormal noise, abnormal vibration, or heat generation.

# TROUBLESHOOTING

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
Motor does not run.	Battery cartridge is not installed.	Install the battery cartridge.
	Battery problem (under voltage)	Recharge the battery. If recharging is not effective, replace the battery cartridge.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Motor stops running after a little use.	Battery's charge level is low.	Recharge the battery. If recharging is not effective, replace the battery cartridge.
	Overheating.	Stop using of tool to allow it to cool down.
The wheel rotation does not accelerate properly even after running the tool without load for 20 seconds.	Battery is installed improperly.	Install the battery cartridge as described in this manual.
	Battery power is dropping.	Recharge the battery cartridge. If recharging is not effective, replace the battery cartridge.
	The synchro-belt is slipping.	Replace the synchro-belt with new one.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Wheel does not rotate: ⇒ stop the machine immediately!	The synchro-belt is slipping.	Replace the synchro-belt with new one.
	Foreign object is jammed between the guard and the wheel.	Uninstall the battery cartridge and then remove the foreign object.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Abnormal vibration: ⇒ stop the machine immediately!	Improper attachment of the wheel.	Install the wheel as instructed in this manual. Tighten the bolt to secure the wheel firmly.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Cutting tool and motor cannot stop: ⇒ Remove the battery cartridge immediately!	Electric or electronic malfunction.	Remove the battery cartridge and ask your local authorized service center for repair.
Poor cutting performance	It is time to replace the wheel.	Replace the wheel with new one.
Water leaks from the inlet.	Water is leaking from the O-ring part.	Ask your local authorized service center for repair.

## 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 wheel
- Diamond wheel
- Synchro-belt
- Coupling sleeve
- 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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