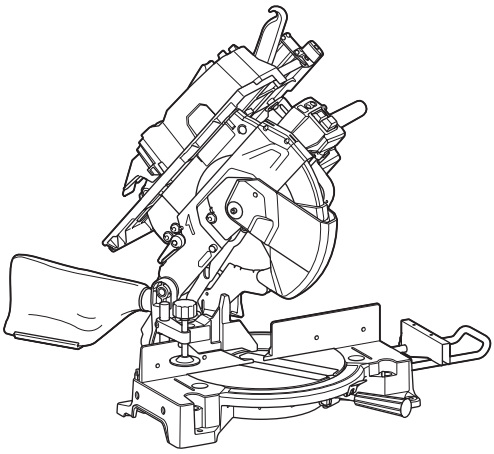
ENGLISH: Original instructions

INSTRUCTION MANUAL

# Cordless Table Top Miter Saw

# LH001G



Read before use.

# SPECIFICATIONS

| Model: | | LH001G |
|---|---|---|
| Blade diameter | | 255 mm - 260 mm |
| Hole diameter | European countries | 30 mm |
| | Countries other than Europe (country specific) | 15.88 mm / 25.4 mm / 30 mm |
| Blade body thickness | | 1.5 mm - 1.8 mm |
| Max. kerf thickness of the circular saw blade | | 3.2 mm |
| Riving knife thickness | | 2.0 mm |
| Dimensions (L x W x H) (without battery cartridge) | | 545 mm x 476 mm x 585 mm |
| Table size (W x L) | | 260 mm x 415 mm |
| Miter saw mode | Max. miter angle | Left 45°, Right 52° |
| | Max. bevel angle | Left 45°, Right 0° |
| | Max. Cutting capacities (H x W) | Refer to the table below. |
| Table saw mode (bench saw mode) | Max. Cutting capacities (H)* | 40 mm |
| No load speed (RPM) | | 4,300 $min^{-1}$ |
| Rated voltage | | D.C. 36 V - 40 V max |
| Net weight | | 14.8 - 16.0 kg |

* Maximum cutting capacities when the blade diameter is 260 mm.

- 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 net weight value includes the lightest and heaviest combination of the attachment(s) for normal and safe use and battery cartridge(s) which are specified in the instruction manual.

**Maximum cutting capacities (H x W) when the blade diameter is 260 mm in the miter saw mode**

| Bevel angle | - | Miter angle | | |
|---|---|---|---|---|
| | | 45° (left) | 0° | 45° (right) |
| 0° | *1 | 69 mm x 85 mm | 69 mm x 130 mm | 69 mm x 85 mm |
| | *2 | 93 mm x 67 mm | 93 mm x 95 mm | 93 mm x 67 mm |
| 45° (left) | *1 | 35 mm x 65 mm | 35 mm x 130 mm | 35 mm x 91 mm |
| | *2 | 49 mm x 42 mm | 53 mm x 95 mm | 49 mm x 67 mm |

*1: When the workpiece is positioned to maximize horizontal cutting width.
*2: When the workpiece is positioned to maximize vertical cutting height.

## Applicable battery cartridge and charger

| | |
|---|---|
| Battery cartridge | BL4020 / BL4025* / BL4040* / BL4040F* / BL4050F* / BL4080F* / BL4080H*<br>* : Recommended battery |
| Charger | DC40RA / DC40RB / DC40RC / DC40WA / BCC01 / BCC02 |

- 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 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.

| | |
|---|---|
|  | To avoid injury from flying debris, keep holding the saw head down, after making cuts, until the circular saw blade has come to a complete stop. |
|  | When using the tool in the miter saw mode, secure the top table at the topmost position so that the circular saw blade never protrudes from the top surface of the top table. |
|  | Do not place hand or fingers close to the circular saw blade. |
|  | Do not stare at the operating lamp. |
|  | Do not throw away this part. This part is essential for operations. |
|  Ni-MH Li-ion | Only for EU countries<br>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.<br>Do not dispose of electrical and electronic appliances or batteries with household waste!<br>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.<br>This is indicated by the symbol of the crossed-out wheeled bin placed on the equipment. |

## Intended use

When operating this tool as a miter saw, this tool is intended for accurate straight and miter cutting in wood. With appropriate circular saw blades, aluminum can also be sawed.
When operating this tool as a table saw (bench saw), this tool is intended for accurate straight cutting in wood only.

## Noise

The typical A-weighted noise level determined according to EN62841-3-11:
Sound pressure level ($L_{pA}$) : 91 dB (A)
Sound power level ($L_{WA}$) : 103 dB (A)
Uncertainty (K) : 3 dB (A)

**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) can 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 total value(s) 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).**

## 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**

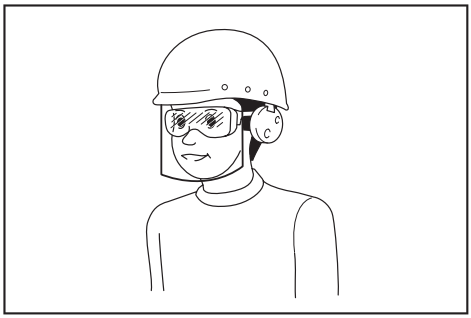
1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
2. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, 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.

**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 designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
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.**

## Combined miter and table (bench) saws safety warnings

**For both miter saw mode and table saw (bench saw) mode:**

1. **Combined mitre and bench saws are intended to cut wood or wood-like products, they cannot be used with abrasive cut-off wheels for cutting ferrous material such as bars, rods, studs, etc.** Abrasive dust causes moving parts such as the lower guard to jam. Sparks from abrasive cutting will burn the lower guard, the kerf insert and other plastic parts.
2. **Keep guards in place. Guards must be in working order and be properly mounted, especially after a mode change.** A guard that is loose, damaged, or is not functioning correctly must be repaired or replaced.
3. **Do not use the saw until the table is clear of all tools, wood scraps, etc., except for the workpiece.** Small debris or loose pieces of wood or other objects that contact the revolving blade can be thrown with high speed.
4. **Cut only one workpiece at a time.** Stacked multiple workpieces cannot be adequately clamped or braced and may bind on the blade or shift during cutting.
5. **The cut-off piece must not be jammed or pressed by any means against the spinning saw blade.** If confined, for example using length stops, the cut-off piece could get wedged against the blade and thrown violently.
6. **Turn off the saw and disconnect the battery pack when changing the saw blade or making adjustments to the riving knife or saw blade guard, and when the machine is left unattended.** Precautionary measures will avoid accidents.
7. **Never leave the saw running unattended. Turn it off and do not leave the tool until it comes to a complete stop.** An unattended running saw is an uncontrolled hazard.
8. **Mount or place the saw in a well-lit and level area where you can maintain good footing and balance. It should be installed in an area with firm work surface that provides enough room to easily handle the size of your workpiece.** Cramped, dark areas, and uneven slippery floors invite accidents. A level and firm work surface reduces the risk of the saw becoming unstable.
9. **Frequently clean and remove sawdust from under the saw table and/or the dust collection device.** Accumulated sawdust is combustible and may self-ignite.
10. **The saw must be secured.** A saw that is not properly secured may move or tip over.
11. **Always use saw blades with correct size and shape (diamond versus round) of arbour holes.** Saw blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
12. **Never use damaged or incorrect saw blade mounting means such as flanges, saw blade washers, bolts or nuts.** These mounting means were specially designed for your saw, for safe operation and optimum performance.
13. **Never stand on the saw, do not use it as a stepping stool.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
14. **Make sure that the saw blade is installed to rotate in the proper direction. Do not use grinding wheels, wire brushes, or abrasive wheels on a saw.** Improper saw blade installation or use of accessories not recommended may cause serious injury.
15. **Keep saw blades clean, sharp, and with sufficient set. Never use warped saw blades or saw blades with cracked or broken teeth.** Sharp and properly set saw blades minimize binding, stalling and kickback.

**When using in miter saw mode:**

1. **Use clamps to support the workpiece whenever possible. If supporting the workpiece by hand, you must always keep your hand at least 100 mm from either side of the saw blade.**

**Do not use this saw to cut pieces that are too small to be securely clamped or held by hand.** If your hand is placed too close to the saw blade, there is an increased risk of injury from blade contact.

2. **The workpiece must be stationary and clamped or held against both the fence and the table. Do not feed the workpiece into the blade or cut "freehand" in any way.** Unrestrained or moving workpieces could be thrown at high speeds, causing injury.
3. **Push the saw through the workpiece. Do not pull the saw through the workpiece. To make a cut, raise the saw head and pull it out over the workpiece without cutting, start the motor, press the saw head down and push the saw through the workpiece.** Cutting on the pull stroke is likely to cause the saw blade to climb on top of the workpiece and violently throw the blade assembly towards the operator.
4. **Never cross your hand over the intended line of cutting either in front of or behind the saw blade.** Supporting the workpiece "cross handed", which means holding the workpiece to the right of the saw blade with your left hand or vice versa, is very dangerous.
5. **Do not reach behind the fence with either hand closer than 100 mm from either side of the saw blade, to remove wood scraps, or for any other reason while the blade is spinning.** The proximity of the spinning saw blade to your hand may not be obvious and you may be seriously injured.
6. **Inspect your workpiece before cutting. If the workpiece is bowed or warped, clamp it with the outside bowed face toward the fence. Always make certain that there is no gap between the workpiece, fence and table along the line of the cut.** Bent or warped workpieces can twist or shift and may cause binding on the spinning saw blade while cutting. There should be no nails or foreign objects in the workpiece.
7. **Plan your work. Every time you change the bevel or mitre angle setting, make sure the adjustable fence is set correctly to support the workpiece and will not interfere with the blade or the guarding system.** Without turning the tool "ON" and with no workpiece on the table, move the saw blade through a complete simulated cut to assure there will be no interference or danger of cutting the fence.
8. **Provide adequate support such as table extensions, saw horses, etc. for a workpiece that is wider or longer than the table top.** Workpieces longer or wider than the table top can tip if not securely supported. If the cut-off piece or workpiece tips, it can lift the lower guard or be thrown by the spinning blade.
9. **Do not use another person as a substitute for a table extension or as additional support.** Unstable support for the workpiece can cause the blade to bind or the workpiece to shift during the cutting operation, pulling you and the helper into the spinning blade.
10. **Always use a clamp or a fixture designed to properly support round material such as rods or tubing.** Rods have a tendency to roll while being cut, causing the blade to "bite" and pull the work with your hand into the blade.
11. **Let the blade reach full speed before contacting the workpiece.** This will reduce the risk of the workpiece being thrown.
12. **If the workpiece or blade becomes jammed, turn the saw off. Wait for all moving parts to stop and disconnect the plug from the power source and/or remove the battery pack. Then work to free the jammed material.** Continued sawing with a jammed workpiece could cause loss of control or damage to the saw.
13. **After finishing the cut, release the switch, hold the saw head down and wait for the blade to stop before removing the cut-off piece.** Reaching with your hand near the coasting blade is dangerous.
14. **Hold the handle firmly when making an incomplete cut or when releasing the switch before the saw head is completely in the down position.** The braking action of the saw may cause the saw head to be suddenly pulled downward, causing a risk of injury.

**When using in the table saw (bench saw) mode:**
**Guarding related warnings**

1. **Always use saw blade guard and riving knife for every through–cutting operation.** For through-cutting operations where the saw blade cuts completely through the thickness of the workpiece, the guard and other safety devices help reduce the risk of injury.
2. **Make sure the saw blade is not contacting the guard, riving knife or the workpiece before the switch is turned on.** Inadvertent contact of these items with the saw blade could cause a hazardous condition.
3. **Adjust the riving knife as described in this instruction manual.** Incorrect spacing, positioning and alignment can make the riving knife ineffective in reducing the likelihood of kickback.
4. **For the riving knife to work, it must be engaged in the workpiece.** The riving knife is ineffective when cutting workpieces that are too short to be engaged with the riving knife. Under these conditions, a kickback cannot be prevented by the riving knife.
5. **Use the appropriate saw blade for the riving knife.** For the riving knife to function properly, the saw blade diameter must match the appropriate riving knife and the body of the saw blade must be thinner than the thickness of the riving knife and the cutting width of the saw blade must be wider than the thickness of the riving knife.

**Cutting procedures warnings**

1. **⚠DANGER: Never place your fingers or hands in the vicinity of or in line with the saw blade.** A moment of inattention or a slip could direct your hand towards the saw blade and result in serious personal injury.
2. **Feed the workpiece into the saw blade only against the direction of rotation.** Feeding the workpiece in the same direction that the saw blade is rotating above the table may result in the workpiece, and your hand, being pulled into the saw blade.

3. **Never use the mitre gauge to feed the workpiece when ripping and do not use the rip fence as a length stop when cross cutting with the mitre gauge.** Guiding the workpiece with the rip fence and the mitre gauge at the same time increases the likelihood of saw blade binding and kickback.
4. **When ripping, always keep the workpiece in full contact with the fence and always apply the workpiece feeding force between the fence and the saw blade. Use a push stick when the distance between the fence and the saw blade is less than 150 mm, and use a push block when this distance is less than 50 mm.** "Work helping" devices will keep your hand at a safe distance from the saw blade.
5. **Use only the push stick provided by the manufacturer or constructed in accordance with the instructions.** This push stick provides sufficient distance of the hand from the saw blade.
6. **Never use a damaged or cut push stick.** A damaged or cut push stick may break causing your hand to slip into the saw blade.
7. **Do not perform any operation "freehand". Always use either the rip fence or the mitre gauge to position and guide the workpiece.** "Freehand" means using your hands to support or guide the workpiece, in lieu of a rip fence or mitre gauge. Freehand sawing leads to misalignment, binding and kickback.
8. **Never reach around or over a rotating saw blade.** Reaching for a workpiece may lead to accidental contact with the moving saw blade.
9. **Provide auxiliary workpiece support to the rear and/or sides of the saw table for long and/or wide workpieces to keep them level.** A long and/or wide workpiece has a tendency to pivot on the table's edge, causing loss of control, saw blade binding and kickback.
10. **Feed the workpiece at an even pace. Do not bend, twist or shift the workpiece from side to side. If jamming occurs, turn the tool off immediately, unplug the tool, then clear the jam.** Jamming the saw blade by the workpiece can cause kickback or stall the motor.
11. **Do not remove pieces of cut-off material while the saw is running.** The material may become trapped between the fence or inside the saw blade guard and the saw blade, pulling your fingers into the saw blade. Turn the saw off and wait until the saw blade stops before removing material.
12. **Use an auxiliary fence in contact with the table top when ripping workpieces less than 2 mm thick.** A thin workpiece may wedge under the rip fence and create a kickback.

**Kickback causes and related warnings**

Kickback is a sudden reaction of the workpiece due to a pinched saw blade, a jammed saw blade or misaligned line of cut in the workpiece with respect to the saw blade or when a part of the workpiece binds between the saw blade and the rip fence or other fixed object. Most frequently during kickback, the workpiece is lifted from the table by the rear portion of the saw blade and is propelled towards the operator.

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

1. **Never stand directly in line with the saw blade. Always position your body on the same side of the saw blade as the fence.** Kickback may propel the workpiece at high velocity towards anyone standing in front of and in line with the saw blade.
2. **Never reach over or in back of the saw blade to pull or to support the workpiece.** Accidental contact with the saw blade may occur or kickback may drag your fingers into the saw blade.
3. **Never hold and press the workpiece that is being cut off against the rotating saw blade.** Pressing the workpiece being cut off against the saw blade will create a binding condition and kickback.
4. **Align the fence to be parallel with the saw blade.** A misaligned fence will pinch the workpiece against the saw blade and create kickback.
5. **Use extra caution when making a cut into blind areas of assembled workpieces.** The protruding saw blade may cut objects that can cause kickback.
6. **Support large panels to minimize the risk of saw blade pinching and kickback.** Large panels tend to sag under their own weight. Support(s) must be placed under all portions of the panel overhanging the table top.
7. **Use extra caution when cutting a workpiece that is twisted, knotted, warped or does not have a straight edge to guide it with a mitre gauge or along the fence.** A warped, knotted, or twisted workpiece is unstable and causes misalignment of the kerf with the saw blade, binding and kickback.
8. **Never cut more than one workpiece, stacked vertically or horizontally.** The saw blade could pick up one or more pieces and cause kickback.
9. **When restarting the saw with the saw blade in the workpiece, centre the saw blade in the kerf so that the saw teeth are not engaged in the material.** If the saw blade binds, it may lift up the workpiece and cause kickback when the saw is restarted.

**Additional safety warnings:**

1. **Select the correct circular saw blade for the material to be cut.**
2. **Use only sharp circular saw blades that are not damaged or deformed.**
3. **Do not use circular saw blades made of high speed steel.**
4. **Use only circular saw blades whose maximum allowable speed is equal to or greater than the no load speed specified in this manual.**
5. **Always store the push stick when it is not in use.**
6. **If the tool is equipped with a laser or LED, do not replace the laser or LED with a different type. Ask an authorized service center for repair.**
7. **Make sure that the upper portion of the circular saw blade is completely enclosed in the mitre saw mode.**
8. **Use only circular saw blades specified by the manufacturer. The kerf thickness of the**

**circular saw blade must be thicker than the riving knife and the blade body must be thinner than the riving knife.**
**(For European countries only)**
**Use specified circular saw blades for wood and analogous materials which conform to EN 847-1:2017.**

9. **In mitre saw mode, the workpiece must be secured firmly against the turn base and guide fence with the vise during all operations. Never use your hand to secure the workpiece.**
10. **Make sure that the tool is always stable and securely fixed to a workbench.**
11. **Always fix the adjustable or removable workpiece support extension(s) during operation.**
12. **Support long workpieces with appropriate additional supports.**
13. **Do not use the tool for non-through cutting, including slotting and grooving.**
14. **Maintain smooth advancement of tool without decrease in blade speed to avoid overheating the blade tips.**
15. **Wear hearing protection to reduce the risk of hearing loss.**
16. **Wear eye protection.**
17. **Connect the tool to a dust collecting device when sawing.**
18. **Wear dust mask to reduce the risk of inhalation of harmful dust.**
19. **Wear gloves for handling circular saw blades (circular saw blades shall be carried in a holder wherever practicable) and rough material.**
20. **Keep the floor area free of loose materials e.g. chips and cut-offs.**
21. **The operator is recommended to be adequately trained in the use, adjustment and operation of the tool.**
22. **While operating the tool, keep your hands, face, etc. away from the circular saw blade, rotating parts, and chip discharge area.** Accidental contact may cause injury.
23. **When storing the tool, secure the tool in table saw mode, remove the battery cartridge, lock all moving parts, and secure all accessories.** Otherwise, the tool may start unexpectedly and cause injury.
24. **Make sure that the workpiece is the material specified in this manual and have no nails or foreign objects inside.** Otherwise, the circular saw blade chips may fly off and cause 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.

***NOTICE:*** Makita is not responsible for any accidents resulting from the use of non-genuine Makita batteries or batteries that have been modified. Genuine Makita batteries have been rigorously evaluated for compatibility with Makita tools and chargers, in line with applicable legislation and safety standards.

## 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).**

## Important safety instructions for wireless unit

1. **Do not disassemble or tamper with the wireless unit.**
2. **Keep the wireless unit away from young children. If accidentally swallowed, seek medical attention immediately.**
3. **Use the wireless unit only with Makita tools.**
4. **Do not expose the wireless unit to rain or wet conditions.**
5. **Do not use the wireless unit in places where the temperature exceeds 50 °C (122 °F).**
6. **Do not operate the wireless unit in places where medical instruments, such as heart pace makers are nearby.**
7. **Do not operate the wireless unit in places where automated devices are nearby.** If operated, automated devices may develop malfunction or error.
8. **Do not operate the wireless unit in places under high temperature or places where static electricity or electrical noise could be generated.**
9. **The wireless unit can produce electromagnetic fields (EMF) but they are not harmful to the user.**
10. **The wireless unit is an accurate instrument. Be careful not to drop or strike the wireless unit.**
11. **Avoid touching the terminal of the wireless unit with bare hands or metallic materials.**
12. **Always remove the battery on the product when installing the wireless unit into it.**
13. **When opening the lid of the slot, avoid the place where dust and water may come into the slot. Always keep the inlet of the slot clean.**
14. **Always insert the wireless unit in the correct direction.**
15. **Do not press the wireless activation button on the wireless unit too hard and/or press the button with an object with a sharp edge.**
16. **Always close the lid of the slot when operating.**
17. **Do not remove the wireless unit from the slot while the power is being supplied to the tool.** Doing so may cause a malfunction of the wireless unit.
18. **Do not remove the sticker on the wireless unit.**
19. **Do not put any sticker on the wireless unit.**
20. **Do not leave the wireless unit in a place where static electricity or electrical noise could be generated.**
21. **Do not leave the wireless unit in a place subject to high heat, such as a car sitting in the sun.**
22. **Do not leave the wireless unit in a dusty or powdery place or in a place corrosive gas could be generated.**
23. **Sudden change of the temperature may bedew the wireless unit. Do not use the wireless unit until the dew is completely dried.**
24. **When cleaning the wireless unit, gently wipe with a dry soft cloth. Do not use benzine, thinner, conductive grease or the like.**
25. **When storing the wireless unit, keep it in the supplied case or a static-free container.**
26. **Do not insert any devices other than Makita wireless unit into the slot on the tool.**
27. **Do not use the tool with the lid of the slot damaged.** Water, dust, and dirt come into the slot may cause malfunction.
28. **Do not pull and/or twist the lid of the slot more than necessary.** Restore the lid if it comes off from the tool.
29. **Replace the lid of the slot if it is lost or damaged.**

## SAVE THESE INSTRUCTIONS.

# PARTS DESCRIPTION

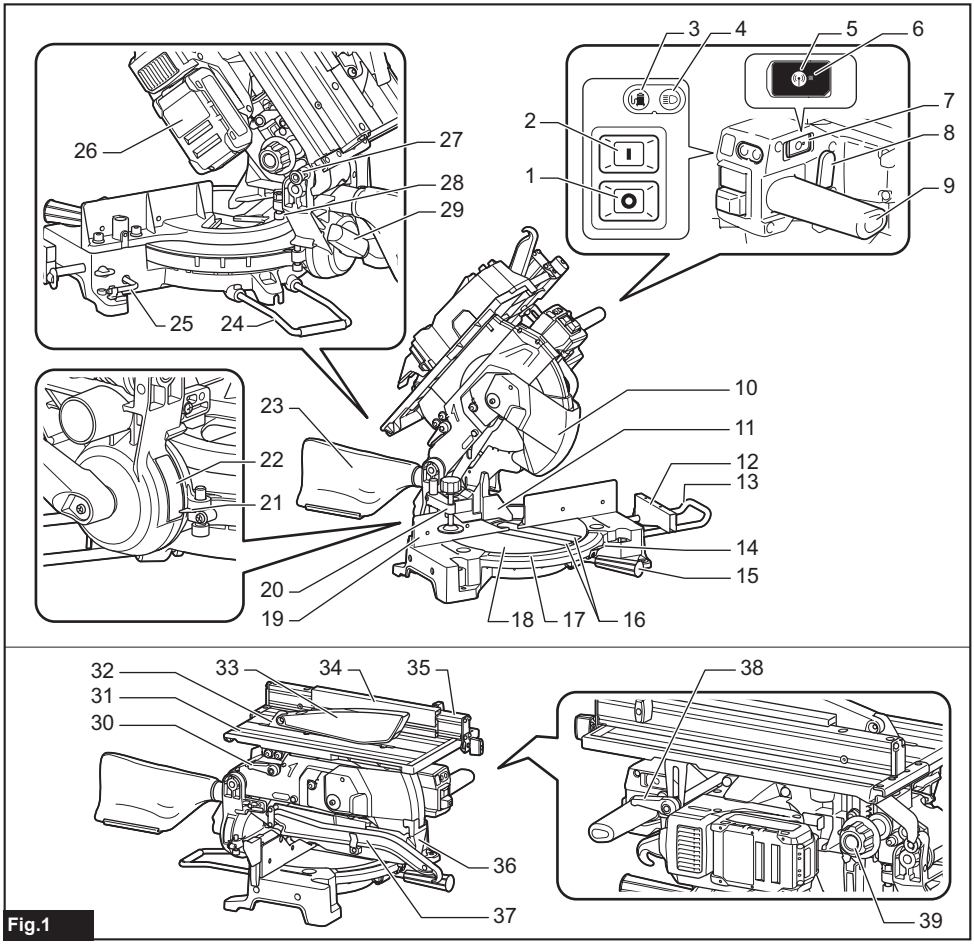



**Fig.1**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | OFF ( O ) button | 2 | ON ( I ) button | 3 | Vacuum button | 4 | Lamp button |
| 5 | Wireless activation button | 6 | Wireless activation lamp | 7 | Lid (for wireless unit) | 8 | Lock-off lever (for lowering the handle) |
| 9 | Handle | 10 | Lower blade guard | 11 | Sub fence | 12 | Set plate |
| 13 | Holder | 14 | Lock lever (for turn base) | 15 | Grip (for turn base) | 16 | Kerf board |
| 17 | Miter angle scale | 18 | Turn base | 19 | Guide fence | 20 | Vertical vise |
| 21 | Pointer (for bevel angle) | 22 | Bevel angle scale | 23 | Dust bag | 24 | Auxiliary bracket |
| 25 | Hex wrench | 26 | Battery cartridge | 27 | Stopper pin | 28 | Adjusting bolt (for maximum cutting capacity) |
| 29 | Lever (for bevel angle) | 30 | Lever (for the height of the top table), (left) | 31 | Top table | 32 | Riving knife |
| 33 | Top blade guard | 34 | Rip fence | 35 | Rip fence holder | 36 | Blade cover |
| 37 | Push stick | 38 | Lever (for the height of the top table), (right) | 39 | Knob (for top table elevation) | - | - |

# INSTALLATION

## Installing the grip

Screw the threaded shaft of the grip into the turn base.

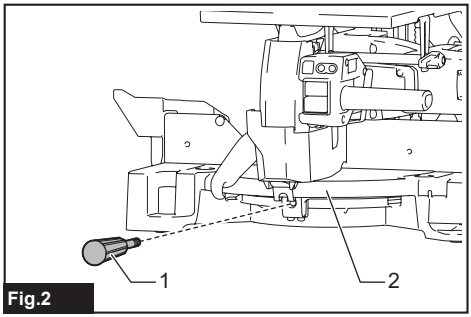



Fig.2

► **1.** Grip **2.** Turn base

## Bench mounting

Secure the tool to a level and stable surface using two bolts through the bolt holes in the base. This action helps prevent tipping and injury.

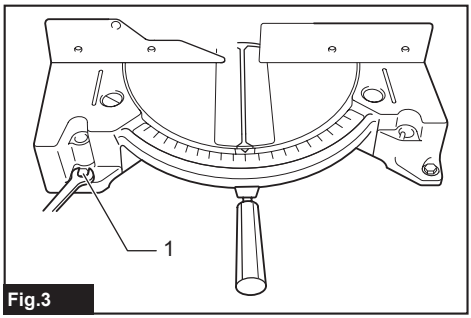



Fig.3

► **1.** Bolt

⚠***WARNING:*** **Make sure that the tool will not move on the supporting surface.** If the miter saw moves while cutting, you may lose control and suffer serious injury.

# 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.

## Installing or removing battery cartridge

⚠***CAUTION:*** **Always switch off the tool before installing or removing 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 from your hands and result in damage to the tool and battery cartridge and a 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, slide it from the tool while sliding the button on the front of the cartridge.

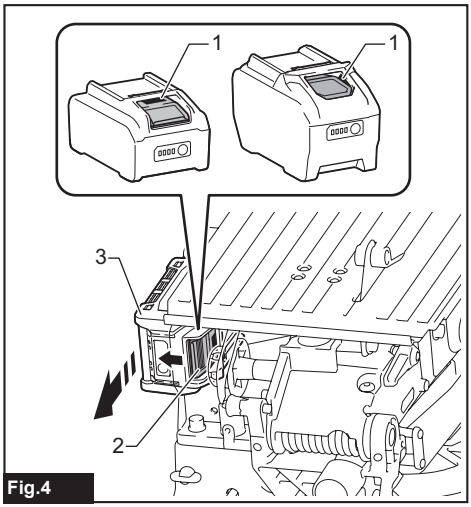



Fig.4

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

⚠***CAUTION:*** **Always install the battery cartridge fully until the red indicator cannot be seen.** If the battery cartridge is 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.

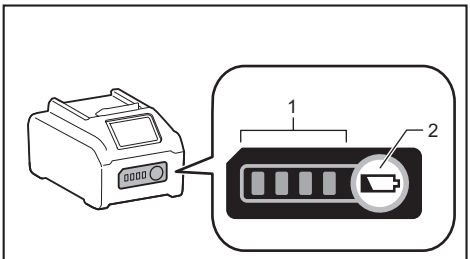



Fig.5

► **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. |
| ■ ■ □ □<br>↑ ↓<br>□ □ ■ ■ | | | 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.

## Handle lock

⚠***CAUTION:*** **Always hold the handle when releasing the stopper pin.** Failure to do so may cause the handle to spring up and result in personal injury.

**NOTE:** When lowering the handle, push the lock-off lever to the left and gently lower the handle.

The handle can be locked either in the lowered position or raised position with the stopper pin. Lower or raise the handle fully and then pull and rotate the stopper pin to the locked position. To unlock the handle, pull the stopper pin and rotate it 90° to the unlocked position while lowering the handle slightly.

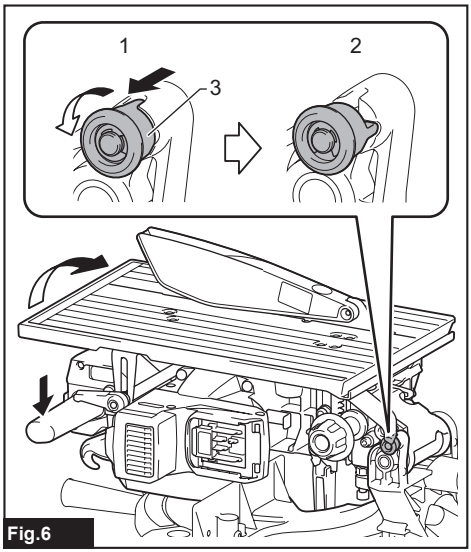



Fig.6

► **1.** Locked position **2.** Unlocked position **3.** Stopper pin

## Blade guard

⚠***WARNING:*** **Never defeat or remove the lower blade guard, the top blade guard, or the spring that attaches to the lower blade guard.** Operating the tool without proper guarding may expose the circular saw blade and cause serious personal injury.

⚠***WARNING:*** **Never use the tool if the blade guard or spring are damaged, faulty or removed.** Operation of the tool with a damaged, faulty or removed guard may result in serious personal injury.

⚠***CAUTION:*** **Always maintain the blade guard in good condition for safe operation. Stop the operation immediately if there are any irregularity of the blade guard. Make sure that the guard returns to its original position by spring-loaded action.**

- When lowering the handle, the lower blade guard raises automatically. The guard is spring loaded so it returns to its original position when the cut is completed and the handle is raised.
- The top blade guard is lifted as the workpiece passes underneath.

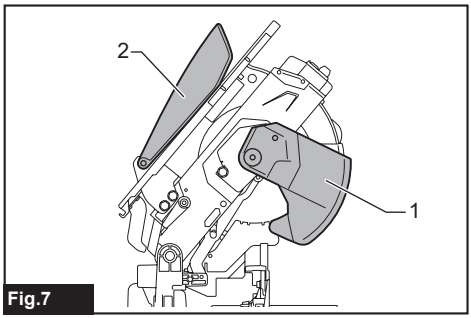


Fig.7

► **1.** Lower blade guard **2.** Top blade guard

## Cleaning

If the transparent blade guard becomes dirty, or sawdust adheres to it in such a way that the circular saw blade or workpiece is no longer easily visible, remove the battery cartridge and clean the guard carefully with a damp cloth. Do not use solvents or any petroleum-based cleaners on the plastic guard because this may cause damage to the guard.
When you clean the lower blade guard, follow the instructions listed below:

**1.** Make sure that the tool is switched off and the battery cartridge is removed.

**2.** Lock the carriage in the raised position by pulling and turning the stopper pin in a locked position.

**3.** Turn the hex socket bolt counterclockwise using the supplied hex wrench while holding the center cover.

**4.** While pushing the lock-off lever to the left, raise the lower blade guard and center cover.

**5.** When cleaning is complete, return the center cover and tighten the hex socket bolt.

**6.** Make sure to return the circular saw blade and center cover to their original positions and tighten the hex socket bolt.

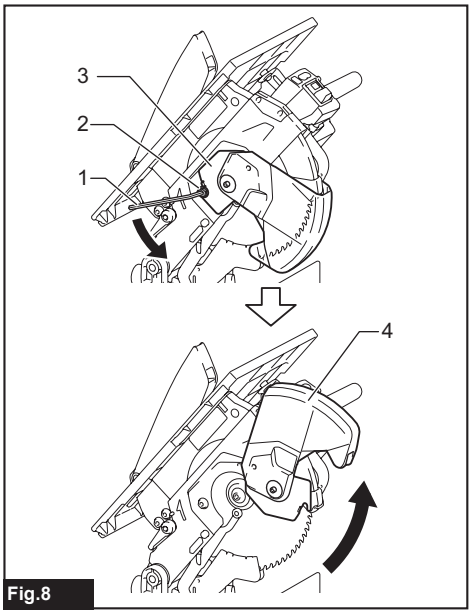


Fig.8

► **1.** Hex wrench **2.** Hex socket bolt **3.** Center cover **4.** Lower blade guard

⚠***WARNING:*** **Do not remove spring that holds the lower blade guard.** If the guard becomes damaged in course of time or UV light exposure, contact a Makita service center for replacement. **DO NOT DEFEAT OR REMOVE THE GUARD.**

## Switch action

⚠***WARNING:*** **Before installing the battery cartridge(s) into the tool, always check that the switch buttons move smoothly with a click.**

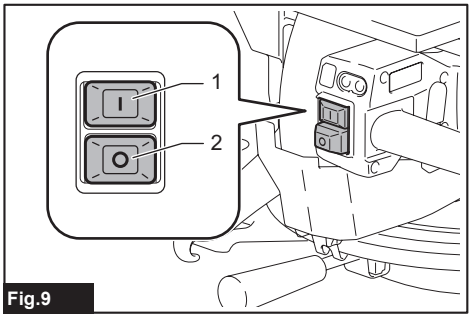


Fig.9

► **1.** ON ( I ) button **2.** OFF ( O ) button

To start the tool, press the ON ( I ) button. To stop the tool, press the OFF ( O ) button.

## 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.

***CAUTION:***
**Turn off the tool when the lamp starts blinking.**

## Overload protection

When the tool/battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops and the lamp will blink. 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 will blink. 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 lamp will blink. If the tool does not run along with the switch operation, remove the battery from the tool and charge it.

## Protections against other causes

The 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 the protection system, then contact your local Makita Service Center.

# Electronic function

## Electric brake

This tool is equipped with an electric blade brake. If the tool consistently fails to quickly cease to function after the tool is turned off, have the tool serviced at a Makita service center.

***CAUTION:*** **The blade brake system is not a substitute for the blade guard. Never use tool without a functioning blade guard.** An unguarded circular saw blade may result in serious personal injury.

## Constant speed control

The tool is provided with an electronic speed control which helps maintain a constant blade rotation speed even under load. A constant blade rotation speed will result in a very smooth cut.

## Soft start feature

This function allows the smooth start-up of the tool by limiting the start-up torque.

## Accidental re-start preventive function

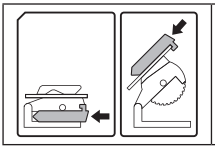
When installing the battery cartridge while the switch is ON, the tool does not start and the lamp will blink.
To start the tool, turn off the switch, and turn it on again.

# 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.

## Blade cover storage

***NOTICE:*** **When using the tool in the table saw mode (bench saw mode), always place the blade cover on the turn base.**



The blade cover can be placed on either the turn base or top table.

## Placing the blade cover on the top table

When you use the tool as a miter saw, put the blade cover on the top table as shown in the figure.

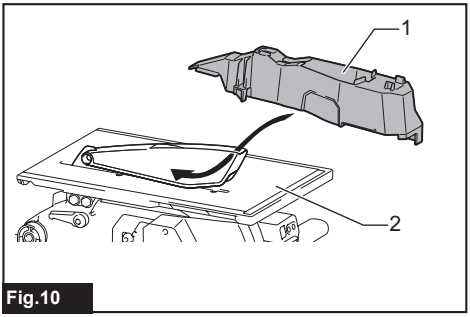



**Fig.10**

► **1.** Blade cover **2.** Top table

Secure the blade cover by hooking it on the edge of the top table.

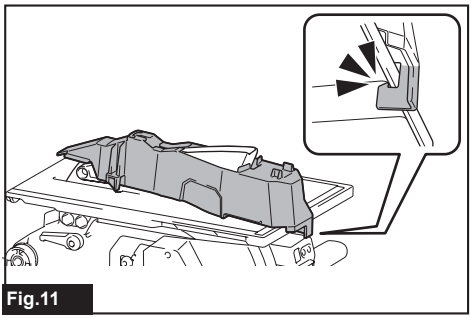


Fig.11

## Placing the blade cover on the turn base

When you use the tool as a table saw (bench saw), set the sub fence to the left position and place the blade cover on the turn base as shown in the figure.

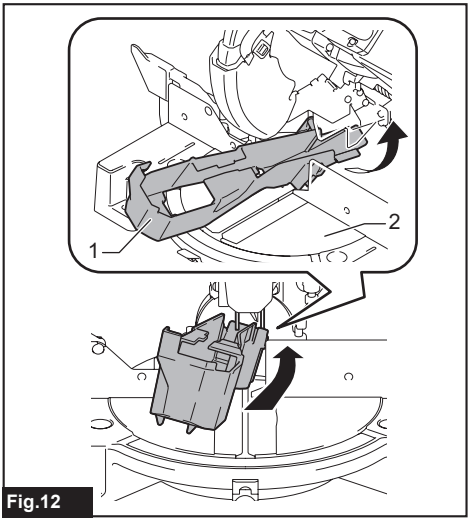



Fig.12

► **1.** Blade cover **2.** Turn base

Make sure that the dust cover is properly installed:

- The blade cover holds the dust guide plates.
- The tabs on the dust cover fits into the gap between the turn base and the miter angle scale.

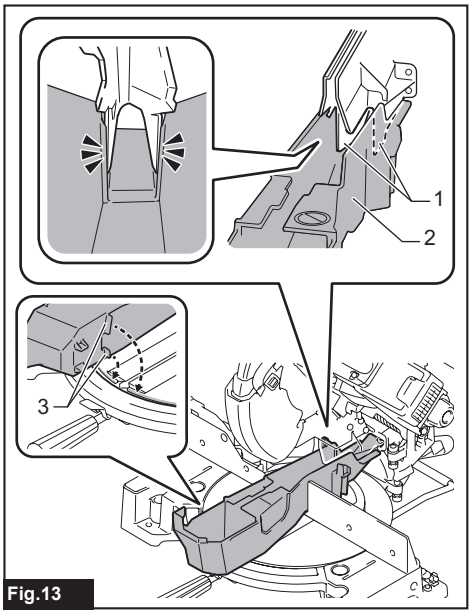



Fig.13

► **1.** Dust guide plate **2.** Blade cover **3.** Tab

## Push stick storage

When not in use, the push stick can be stored on the blade cover as shown in the figure.

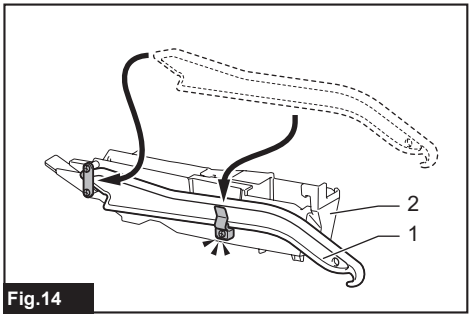



Fig.14

► **1.** Push stick **2.** Blade cover

## Hex wrench storage

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

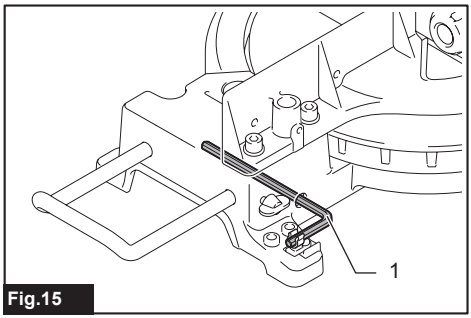



Fig.15

► **1.** Hex wrench

## Installing or removing circular saw blade

⚠***WARNING:*** **Always be sure that the tool is switched off and the battery cartridge is removed before removing and installing the circular saw blade.** Accidental start up of the tool may result in serious personal injury.

⚠***WARNING:*** **Use only the Makita wrench provided to remove and install the circular saw blade.** Failure to use the wrench may result in overtightening or insufficient tightening of the hex socket bolt and serious personal injury.

⚠***WARNING:*** **Never use or substitute the parts which are not supplied with this tool.** Using such parts can cause serious personal injury.

⚠***WARNING:*** **After installing the circular saw blade, always make sure that it is securely installed.** Loose attachment of the circular saw blade can cause serious personal injury.

### Common preparations for installing or removing the circular saw blade

**1.** Lock the carriage in the raised position by pulling and turning the stopper pin to the locked position.

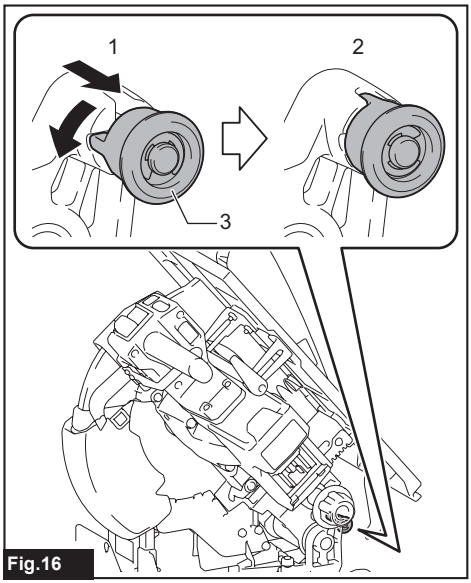



Fig.16

► **1.** Unlocked position **2.** Locked position **3.** Stopper pin

**2.** Use the hex wrench to loosen the hex socket bolt that holds the center cover. Then, while pushing the lock-off lever to the left, raise the lower blade guard and center cover fully until the hex socket bolt appears.

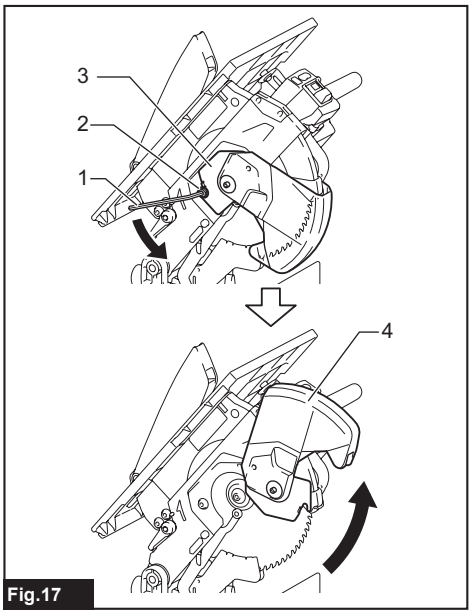



Fig.17

► **1.** Hex wrench **2.** Hex socket bolt **3.** Center cover **4.** Lower blade guard

**3.** Press the shaft lock to lock the spindle and use the hex wrench to loosen the hex socket bolt clockwise.

Then remove the hex socket bolt and outer flange.

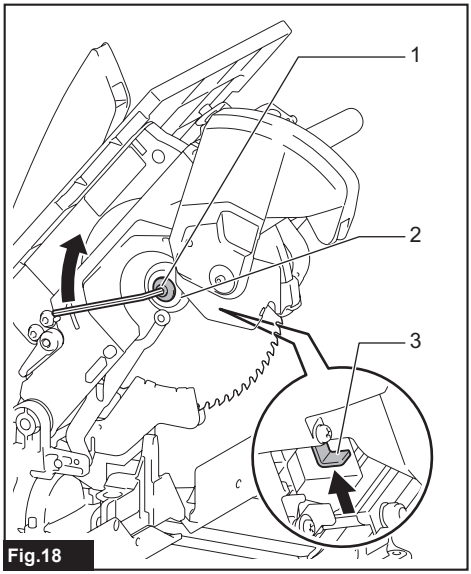



Fig.18

► **1.** Hex socket bolt (left-handed) **2.** Outer flange **3.** Shaft lock

## Installing the circular saw blade

**⚠*CAUTION:* Make sure to install the circular saw blade so that the direction of the arrow on the circular saw blade matches that on the blade case.** Failure to do so may result in personal injury and cause damage to the tool and the workpiece.

**1.** Complete the steps in the "Common preparations for installing or removing the circular saw blade".

**2.** Mount the circular saw blade carefully onto the inner flange. Make sure that the direction of the arrow on the circular saw blade matches the direction of the arrow on the blade case.

The hole diameter of the circular saw blade and the diameter of the spindle must be matched. Use a ring if necessary.

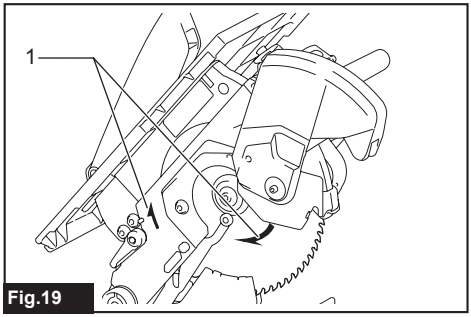



Fig.19

► **1.** Arrow

**3.** Install the outer flange and hex socket bolt, and then use the hex wrench to tighten the hex socket bolt (left-handed) counterclockwise securely while pressing the shaft lock.

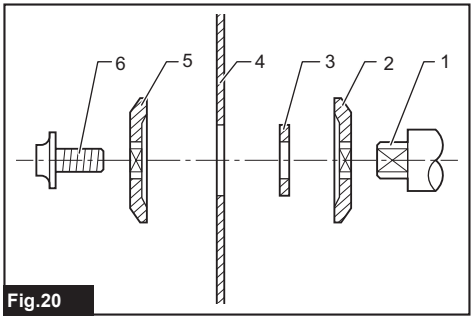



Fig.20

► **1.** Spindle **2.** Inner flange **3.** Ring (if necessary) **4.** Circular saw blade **5.** Outer flange **6.** Hex socket bolt (left-handed)

**4.** Return the lower blade guard and the center cover to their original positions. Then tighten the hex socket bolt to secure the center cover.

**5.** Pull and turn the stopper pin to release the handle from the raised position. Check that the lower blade guard moves properly by lowering the handle.

## Removing the circular saw blade

**1.** Complete the steps in the "Common preparations for installing or removing the circular saw blade".

**2.** Remove the circular saw blade. If the inner flange is removed, install it on the spindle.

***NOTICE:*** Be careful not to lose the removed outer flange and hex socket bolt.

## Dust

⚠***WARNING:*** **Depending on the material being worked on and the accessory used, the dust created by use of the tool can be harmful. The user is recommended to use an appropriate dust extractor to reduce exposure.**

**See the "OPTIONAL ACCESSORIES" section in this instruction manual for all optional dust extractor attachments available.**

**Additional Warnings:**

- **To prevent dust inhalation, it is recommended to also wear an FFP2 dust mask or P2 respirator.**
- **Read the "MAINTENANCE" section of the instruction manual of the connected dust extractor to keep the dust collection effective.**
- **Follow all applicable regulatory requirements for dust control in the country where the work is being conducted.**
- **Do not use a dust extractor for metalworking with power tools.** Metal particles produced during metalworking can ignite accumulated dust and damage the dust filter inside dust extractors, posing a serious fire hazard.
- ***For European countries only***
  **The user is recommended to use an M or H dust class extractor (as defined in EN 60335-2-69).**

For help and support regarding dust extractors, please contact your local Makita Service Center.

⚠***CAUTION:*** **When performing a cutting, always attach the dust bag or connect a vacuum cleaner to prevent dust-related hazards.**

## Connecting a vacuum cleaner

***Optional accessory***

When you wish to perform clean cutting operation, connect a Makita vacuum cleaner.
Use the front cuff 38 to connect the hose.
The outer diameter of the dust nozzle for the hose connection is 37 mm.

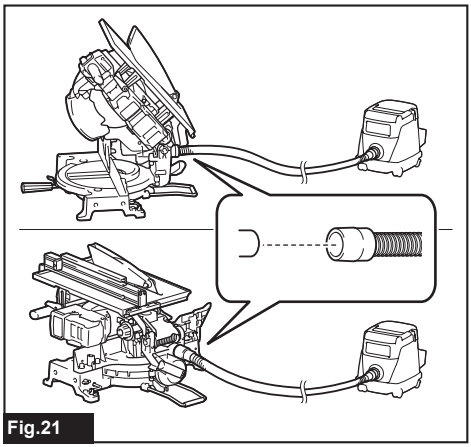


**Fig.21**

## Dust bag

The use of the dust bag makes cutting operations clean and dust collection easy. To attach the dust bag, connect the dust bag to the dust nozzle.

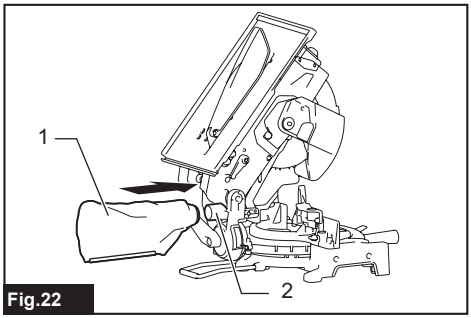



**Fig.22**

► **1.** Dust bag **2.** Dust nozzle

When the dust bag is about half full, remove the dust bag from the tool and pull the fastener out. Empty the dust bag of its contents, tapping it lightly so as to remove particles adhering to the insides which might hamper further collection.

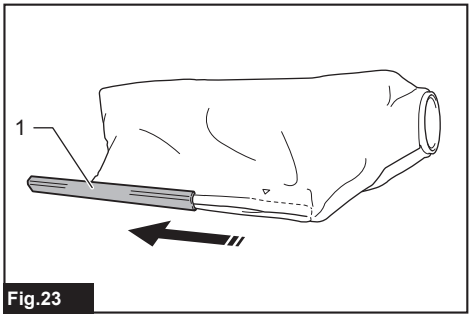



**Fig.23**

► **1.** Fastener

# PREPARATIONS for MITER SAW MODE

## Changing from table saw mode to miter saw mode

When using the tool in the miter saw mode, follow these steps:

**1.** Raise the top table to the topmost position and secure it.

**2.** Unlock the handle from the lowered position to allow carriage movement.

**3.** Remove the blade cover from the turn base and then put it on the top table.

## Maintaining maximum cutting capacity

This tool is factory adjusted to provide the maximum cutting capacity for a 260 mm circular saw blade. When installing a new circular saw blade, always check the lower limit position of the circular saw blade, and if necessary, adjust it as follows:

**1.** Remove the battery cartridge.

**2.** Lower the handle completely, and lock the handle with the stopper pin.

**3.** With a hex wrench, turn the adjusting bolt until its upper part contacts the ceiling as shown in the figure.

This action eliminates the handle play.

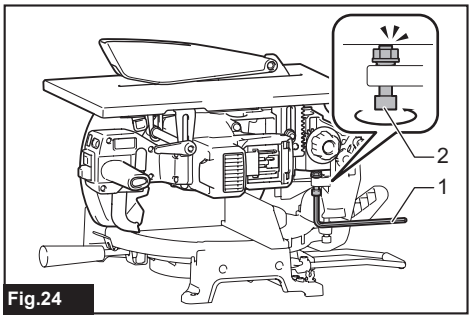



**Fig.24**

► **1.** Hex wrench **2.** Adjusting bolt

**4.** While holding the handle fully down, make sure that the handle can be locked and unlocked by pulling and inserting the stopper pin.

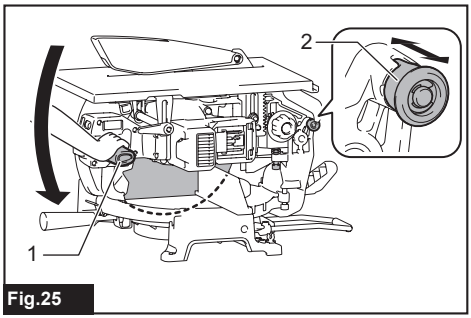



**Fig.25**

► **1.** Handle **2.** Stopper pin

**5.** Rotate the circular saw blade by hand while holding the handle all the way down to be sure that the circular saw blade does not contact any part of the lower base. Re-adjust slightly, if necessary.

**⚠*WARNING:* After you install a new circular saw blade, always check that the blade does not contact any part of the lower base when the handle is lowered completely. Be sure to remove the battery cartridge when checking.** If a circular saw blade makes contact with the base, it may cause kickback and result in serious personal injury.

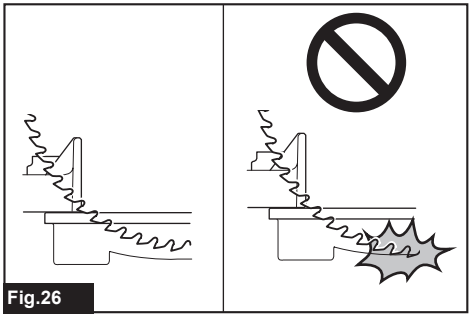


**Fig.26**

## Adjusting the miter angle

**⚠*CAUTION:* After changing the miter angle, always secure the turn base by tightening the grip firmly.**

***NOTICE:* When turning the turn base, be sure to raise the handle fully.**

**1.** Rotate the grip counterclockwise.

**2.** Turn the turn base while pressing down the lock lever.

**3.** Align the pointer with your desired angle on the miter angle scale.

**4.** Release the lock lever and tighten the grip.

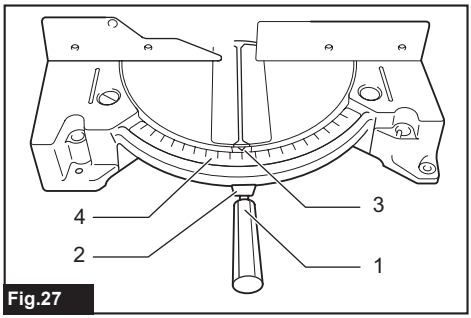
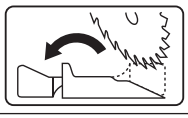


Fig.27

► **1.** Grip **2.** Lock lever **3.** Pointer **4.** Miner angle scale

## Adjusting the bevel angle



**⚠*WARNING:***
**Always set sub fence to the left position when performing left bevel cuts.** Failure to do so may cause serious injury to operator.

**⚠*CAUTION:* After changing the bevel angle, always secure the arm by tightening the lever.**

***NOTICE:* Always remove the vertical vise before adjusting the bevel angle.**

***NOTICE:* When tilting the circular saw blade, be sure that the handle is fully raised.**

### Tilting the carriage to the left

**1.** Raise the handle fully.

**2.** Rotate the lever for bevel angle counterclockwise.

**3.** Hold the handle and tilt the carriage to the left.

**4.** Align the pointer with your desired angle on the bevel angle scale.

**5.** Tighten the lever clockwise to secure the arm.

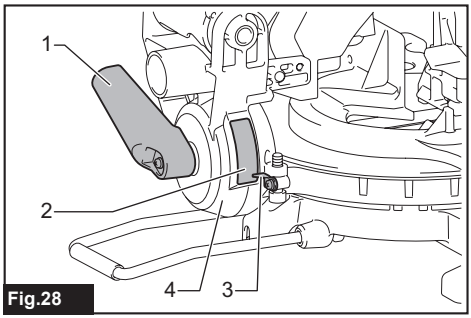


Fig.28

► **1.** Lever **2.** Bevel angle scale **3.** Pointer **4.** Arm

## Casting a cutting line

**⚠*CAUTION:* The lamp is not rainproof. Do not wash the lamp with water. Do not use it in rainy or wet conditions.** Such conduct may cause electric shock or smoke.

**⚠*CAUTION:* Do not touch the lens of the lamp. The lamp becomes very hot while it is on or shortly after you turn it off.** This action may cause burns.

**⚠*CAUTION:* Do not apply impact to the lamp.** Doing so may cause damage or shortened service life of the lamp.

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

The LED lamp casts a light over the circular saw blade, and a shadow of the circular saw blade falls onto a workpiece serving as a calibration-free cutting line indicator. Press the lamp button to shed a light. A line appears in which the circular saw blade will meet the surface of the workpiece, becoming deepened as the circular saw blade gets lowered.

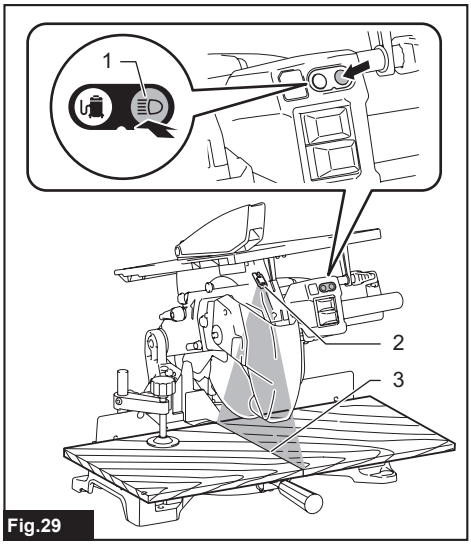


Fig.29

► **1.** Lamp button **2.** Lamp **3.** Cutting line

The indicator helps cut through an existing cut-off line penciled on a workpiece.

**1.** Hold the handle and lower the circular saw blade so a dense shadow of the circular saw blade is thrown against a workpiece.

**2.** Align a cut-off line drawn on the workpiece with the shadowed cutting line.

**3.** Adjust the miter angles and bevel angles if necessary.

**NOTE:** Be sure to turn off the lamp switch after use because turning on the light consumes the battery power.

**NOTE:** The light automatically goes off 5 minutes after you cease operation.

## Securing the workpiece

⚠***WARNING:*** **Do not hold the workpiece with your hand if it brings your hand closer than 100 mm to the blade area. In such cases, use the optional vise to secure the workpiece**

⚠***CAUTION:*** **When cutting long workpieces, use supports that are as high as the top surface level of the turn base. Do not rely solely on the vertical vise or horizontal vise to secure the workpiece.** Thin material tends to sag. Support workpiece over its entire length to avoid blade pinching and possible KICKBACK.

Whenever possible, secure the workpiece with the optional vise.
If you need to hold the workpiece with hands, hold it firmly and securely to maintain control. In this situation, be sure to keep your hand and arm at least 100 mm away from the blade area.
Press the workpiece firmly against the guide fence with your fingers.
Ensure that the workpiece rests steadily on the turn base.

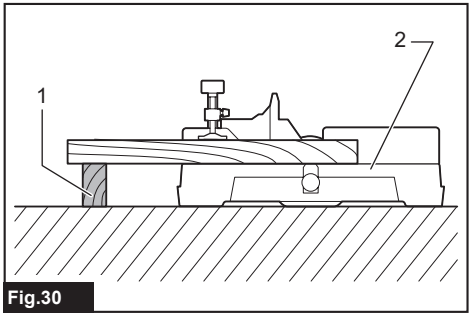


Fig.30

► **1.** Support **2.** Turn base

## Sub fence

⚠***WARNING:*** **When you perform left bevel cuts, flip the sub fence outward.** Failure to to so may cause the sub fence contact the circular saw blade or a part of the tool and result in serious injury to the operator.

This tool is equipped with the sub fence. Usually position the sub-fence inside. When performing left bevel cuts, flip the sub fence outward.

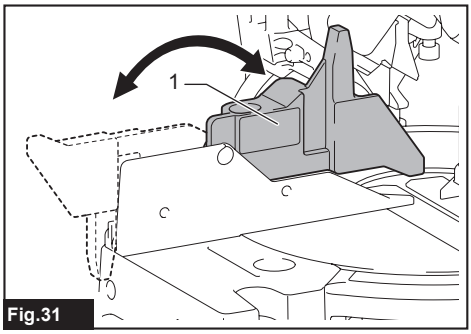


Fig.31

► **1.** Sub fence

## Vertical vise

The vertical vise can be installed in two positions on either the left or right side of the guide fence, or the holder assembly (optional accessory).
Insert the vise rod into the hole in the guide fence or the holder assembly and tighten the screw to secure the vise rod.
Position the vise arm according to the thickness and shape of the workpiece and secure the vise arm by tightening the screw. If the clamping screw contacts the carriage, install the vertical vise into the opposite side of the base. Make sure that no part of the tool contacts the vise when lowering the handle all the way. If some part contacts the vise, re-position the vise.
Press the workpiece flat against the guide fences and the turn base. Position the workpiece at the desired cutting position and secure it firmly by tightening the vise knob.

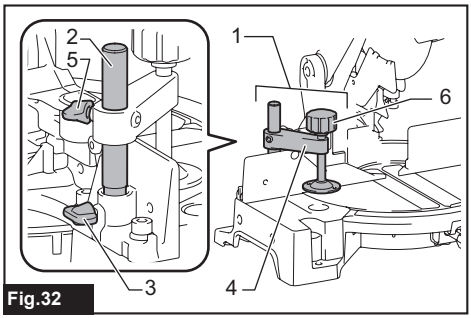


Fig.32

► **1.** Vertical vise **2.** Vise rod **3.** Screw (for fixing vise rod) **4.** Vise arm **5.** Screw (for fixing vise arm) **6.** Vise knob

## Horizontal vise

*Optional accessory*

⚠***WARNING:*** **Always rotate the nut holder clockwise until the workpiece is properly secured.** If the workpiece moves during cutting, it may damage the circular saw blade and cause serious injury.

⚠***WARNING:*** **When cutting a thin workpiece, such as base boards, against the fence, always use the horizontal vise.**

⚠***CAUTION:*** **When cutting the workpiece of the thickness 20 mm or thinner, make sure to use a spacer block to secure the workpiece.**

The horizontal vise can be installed either on the left or on the right side of the base. When performing 22.5° or greater miter cuts, install the horizontal vise on the side opposite to the direction in which the turn base is to be turned.
By flipping the nut holder counterclockwise, the vise is released, and rapidly moves in and out. To grip the workpiece, push the vise knob forward until the vise plate contacts the workpiece and flip the nut holder clockwise. Then turn the vise knob clockwise to secure the workpiece.

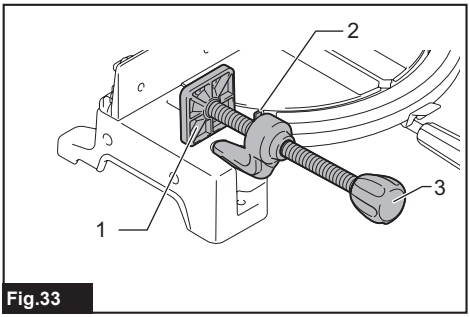



**Fig.33**

► **1.** Vise plate **2.** Nut holder **3.** Vise knob

**NOTE:** The maximum width of workpiece which can be secured by the horizontal vise is 130 mm.

## Holder

The holder is used to support the workpiece to reduce tilting. You can also attach the set plate and the holder assembly (optional accessory) to the holder.
Insert the holder on either the left or right side of the tool and fix it with the screw at the desired position.

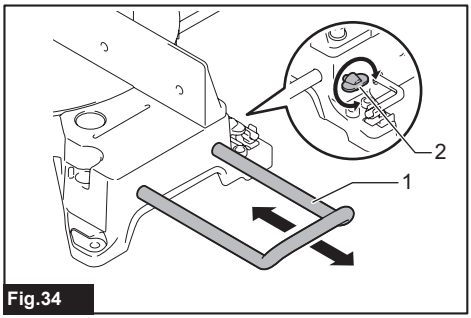



**Fig.34**

► **1.** Holder **2.** Screw

## Holder assembly

*Optional accessory*

⚠***CAUTION:*** **Support a long workpiece so that it stays level with the top surface of the turn base. This action ensures an accurate cut and prevents dangerous loss of tool control.** Proper workpiece support helps to prevent the circular saw blade from being pinched and causing kickback that may result in serious personal injury.

The holder assembly allows horizontal support of workpieces.
Install the holder and the holder assembly on the side of the tool. Then, tighten the screws firmly to secure them.

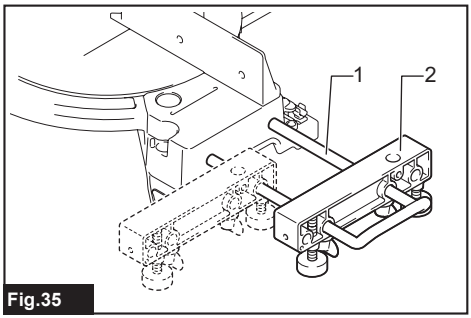



**Fig.35**

► **1.** Holder **2.** Holder assembly

When cutting long workpieces, use the holder-rod assembly (optional accessory). It consists of two holder assemblies and two rods (rod 12).

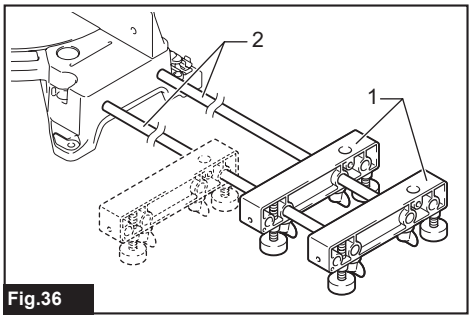



Fig.36

► **1.** Holder assembly **2.** Rod 12

# PREPARATIONS for TABLE SAW MODE

## Changing from miter saw mode to table saw mode

When using the tool in the table saw mode, follow these steps:

**1.** Set the carriage in the raised position.

**2.** Set the bevel angle to 0° and secure the arm.

**3.** Set the miter angle to 0° and secure the turn base.

**4.** Flip the sub fence outward.

**5.** Remove the blade cover from the the top table and then put it on the turn base.

**6.** Set the carriage in the lowered position and lock it.

## Adjusting riving knife

⚠***WARNING:*** **Do not remove the riving knife.**

⚠***WARNING:*** **Check that the riving knife is positioned within the area "A" as shown in the figure when viewed from above.**
**If it is not, please contact the Makita authorized service center for repair.** Failure to do so may cause the workpiece lean against the circular saw and result in serious injury.

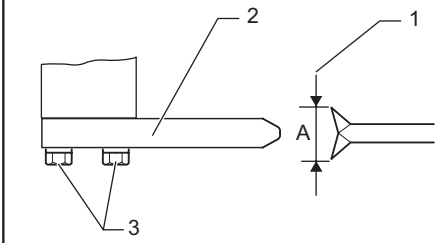
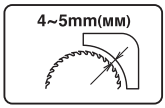



Fig.37

► **1.** Blade width **2.** Riving knife **3.** Hex bolt

⚠***WARNING:*** **Secure the riving knife firmly before cutting.** The operation with an insufficiently secured riving knife may cause kickback or jamming of the workpiece and result in injury.




The clearance between the riving knife and the blade teeth must be about 4 - 5 mm.

When installing a new circular saw blade, always check the clearance between the riving knife and the blade teeth. If necessary, adjust the riving knife as follows:

**1.** Lower the top table to the lowest position so that the circular saw blade completely protrudes.

**2.** Loosen two hex bolts counterclockwise with the hex wrench.

**3.** Adjust the riving knife while measuring the clearance.

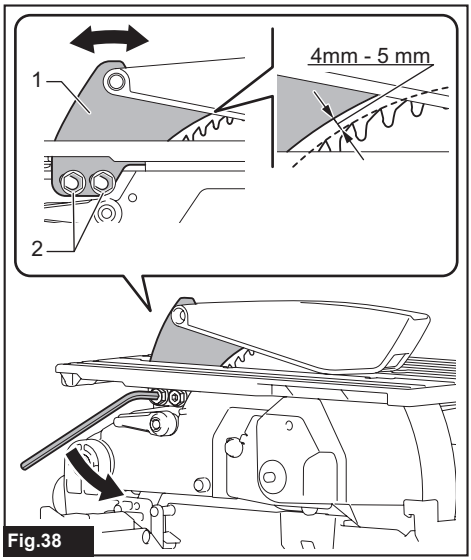



**Fig.38**

► **1.** Riving knife **2.** Hex bolts

**4.** Tighten the hex bolts securely. Check that the top blade guard works smoothly before cutting.

## Adjusting the height of top table

**⚠*WARNING:* Position the top table at the top-most position when using the tool in the miter saw mode.** Otherwise, the circular saw blade protruding from the top table may cause injury.

**⚠*CAUTION:* After changing the cutting height in table saw mode, always secure the top table by tightening the levers firmly.**

To change the cutting height in table saw mode, adjust the height of top table as follows:

**1.** Loosen two levers that secure the top table.

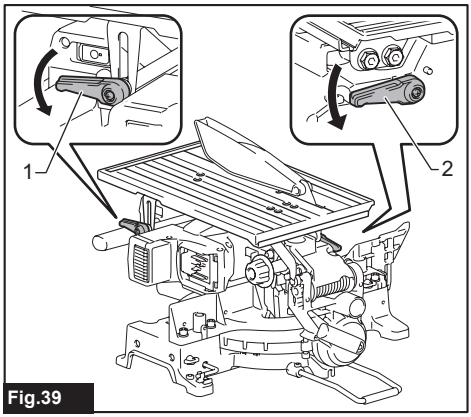



**Fig.39**

► **1.** Lever (right side) **2.** Lever (left side)

**2.** Adjust the height of top table by turning the knob.

To raise the top table, turn the knob clockwise. To lower the top table, turn the knob counterclockwise.

You can also adjust the height by simply pulling up or pushing the top table.

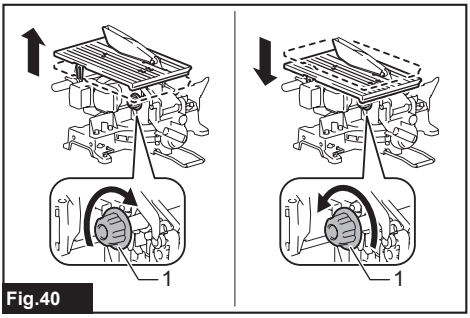



**Fig.40**

► **1.** Knob

**3.** Tighten the levers firmly.

**4.** Turn the nut until its upper part contacts the ceiling, as shown in the figure. This action stabilizes the top table.

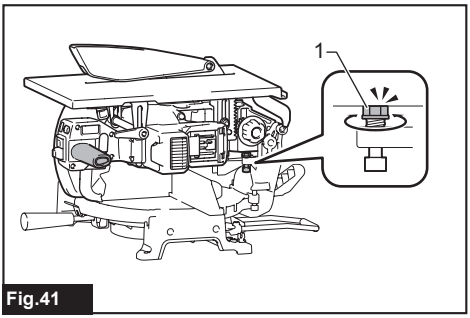



**Fig.41**

► **1.** Nut

## Installing and adjusting rip fence

### Installing rip fence

**1.** Place the rip fence assembly onto the table and tighten the clamping screw (A).

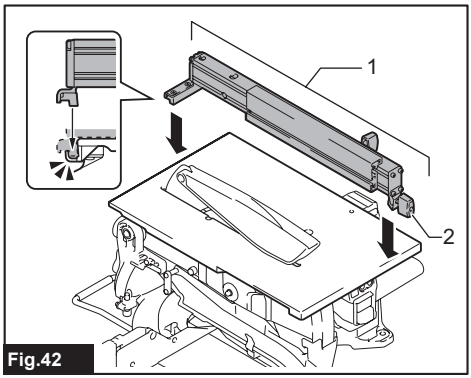



Fig.42

► **1.** Rip fence assembly **2.** Clamping screw (A)

**2.** Loosen the clamping screw (B).

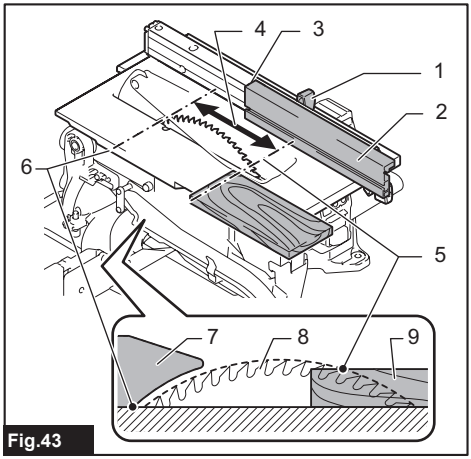



Fig.43

► **1.** Clamping screw (B) **2.** Rip fence **3.** Far end of the rip fence **4.** Installation area **5.** Frontmost limit **6.** Rearmost limit **7.** Riving knife **8.** Circular saw blade **9.** Workpiece

**3.** Place the rip fence so that its far end comes within the area between the frontmost and the rearmost limit.

The frontmost limit is the point at which the front edge of the circular saw blade just appears from top surface of the workpiece.

The rearmost limit is the front edge of the riving knife.

The purpose of this adjustment is to reduce the risk of kickback. Kickback may occur when the cut-off piece gets pinched between the circular saw blade and the rip fence. This situation may cause the cut-off piece to fly toward the operator.

A suitable position of the rip fence varies by thickness of workpiece and the height of the circular saw blade.

**4.** After adjusting the rip fence position, tighten the clamping screw (B).

**NOTE:** There are four patterns to position the rip fence as shown in the figure.

One side of the rip fence has a elevated fringe and the other side has no fringe.

Use Pattern B and C only when cutting thin workpiece.

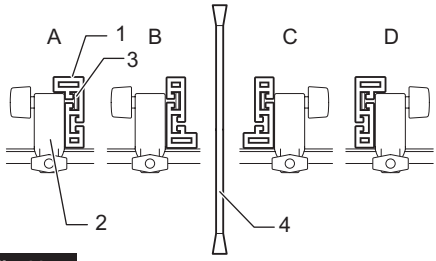



Fig.44

► **1.** Rip fence **2.** Rip fence holder **3.** Square nut **4.** Circular saw blade

## Adjusting the rip fence

The rip fence is factory adjusted and is parallel to the blade surface. If the rip fence becomes misaligned with the circular saw blade due to long-term use, proceed as follows:

**1.** Lower the top table to the lowest position so that the circular saw blade appears at the topmost position from the top table.

**2.** Turn two adjusting screws counterclockwise.

**3.** While pressing the far end of the rip fence holder toward you, move the front of the rip fence holder so that the distances A and B become equal as shown in the figure.

**4.** Tighten the two adjusting screws firmly.

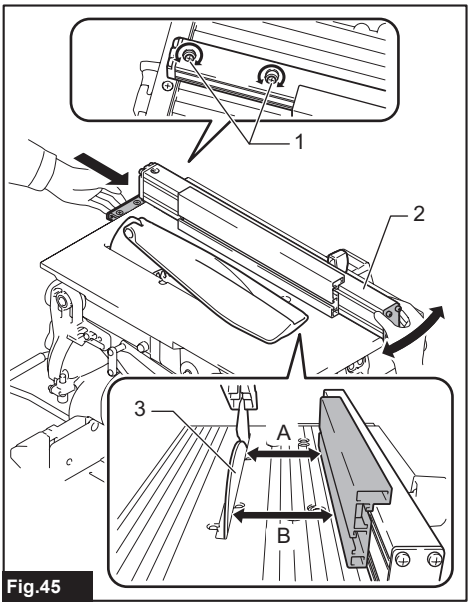



Fig.45

► **1.** Adjusting screw **2.** Rip fence holder **3.** Circular saw blade

**⚠*CAUTION:* Be sure to adjust the rip fence so that it is parallel to the circular saw blade.** Not doing so may cause a dangerous kickback.

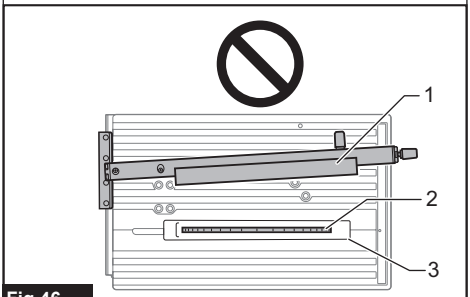



Fig.46

► **1.** Rip fence **2.** Circular saw blade **3.** Top blade guard

**⚠*CAUTION:* Be sure to adjust the rip fence so that it does not contact the top blade guard or circular saw blade.**

# OPERATION

## Cutting as miter saw

When operating this tool as a miter saw, this tool is intended to cut wood products. With appropriate Makita genuine circular saw blades, following materials can also be sawed :

— Aluminum products

Refer to our website or contact your local Makita dealer for the correct circular saw blades to be used for the material to be cut.

**⚠*WARNING:* When using the tool in the miter saw mode, secure the top table at the topmost position so that the circular saw blade does not protrudes from the top surface of the top table.**

**⚠*WARNING:* The workpiece must be secured firmly against the turn base and guide fences with the vise during all operations.** If the workpiece is not properly secured against the fences, the material may move during the cutting operation. This may damage the circular saw blade and cause the material to be thrown. The thrown material may result in loss of control and serious personal injury.

**⚠*WARNING:* Make sure that the circular saw blade is not contacting the workpiece, etc. before the switch is turned on.** Turning on the tool with the circular saw blade in contact with the workpiece may result in kickback and serious personal injury.

**⚠*WARNING:* After a cutting operation, do not raise the handle until the circular saw blade comes to complete stop.** Raising the handle while the circular saw blade is coasting may result in serious personal injury and damage to the workpiece.

**⚠*WARNING:* Do not perform any adjustment such as turning grip, knob, and levers on the tool while the circular saw blade is rotating.** Adjustment while the circular saw blade is rotating may result in serious personal injury.

**⚠*CAUTION:* Do not let go of the handle suddenly from the fully down position.** Uncontrolled saw head may hit you and result in personal injury.

***NOTICE:* Before use, be sure to unlock the stopper pin to raise the carriage.**

***NOTICE:* Do not apply excessive pressure on the handle when cutting.** Too much force may result in overload of the motor and decreased cutting efficiency. Press the handle down with only the force necessary to ensure smooth cutting. Maintain blade speed.

***NOTICE:* Gently press down the handle when cutting a workpiece.** Do not press the handle down with excessive force or apply lateral force.
The circular saw blade may vibrate and leave a saw mark on the workpiece. This vibration may also reduce the cutting precision.

## Press cutting

**1.** Secure the workpiece with the proper type of vise.

**2.** Switch on the tool without the circular saw blade making any contact and wait until the circular saw blade attains full speed before lowering.

**3.** While pushing the lock-off lever to the left, gently lower the handle to the fully lowered position to cut the workpiece.

**4.** When the cut is completed, switch off the tool and **wait until the circular saw blade comes to complete**

**stop.** After that, return the handle to the fully elevated position.

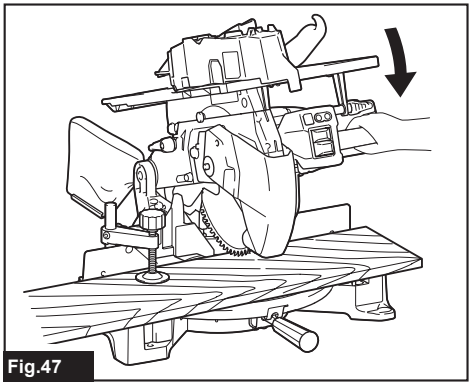


Fig.47

## Miter cutting

Refer to the section for adjusting the miter angle and the section for press cutting.

## Bevel cutting

⚠***WARNING:*** **Ensure that the circular saw blade has free travel throughout the entire range of the intended cut before you perform bevel cutting.** Kickback and serious personal injury may occur if the blade travel is interrupted during cutting.

⚠***WARNING:*** **While making a bevel cut, keep hands out of the path of the circular saw blade.** The angle of the circular saw blade may confuse the operator as to the actual blade path while cutting. Accidental contact with the circular saw blade may result in serious personal injury.

⚠***WARNING:*** **Do not raise the circular saw blade until it has come to a complete stop.** During a bevel cut, the cut-off piece may come to rest against the circular saw blade. If the circular saw blade is raised while it is rotating, the cut-off piece may be ejected by the circular saw blade. It causes the workpiece to fragment which may result in serious personal injury.

***NOTICE:*** **When pressing down the handle, apply pressure in parallel with the circular saw blade.** Applying force perpendicularly to the turn base or changing the pressure direction during cutting can impair cutting precision.

**1.** Adjust the bevel angle according to the procedure explained in the section for bevel angle adjustment. Then tighten the lever.

**2.** Secure the workpiece with a vise.

**3.** Switch on the tool without the circular saw blade making any contact and wait until the circular saw blade attains full speed.

**4.** While pushing the lock-off lever to the left, gently lower the handle to the fully lowered position to cut the workpiece.

**5.** When the cut is completed, switch off the tool and wait until the circular saw blade comes to complete stop. After that, return the handle to the fully elevated position.

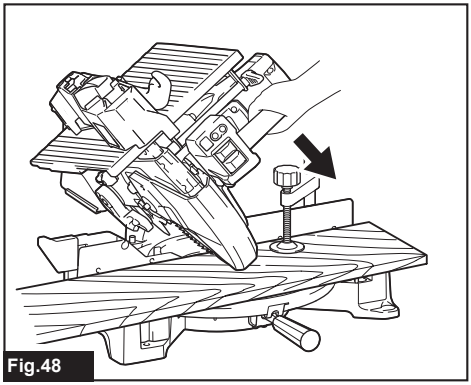


Fig.48

## Compound cutting

Compound cutting means cutting both a bevel and a miter angle at the same time on a workpiece. Compound cutting can be performed at the angle shown in the table.

| Miter angle | Bevel angle |
|---|---|
| Left and Right 0° - 45° | Left 0° - 45° |

When performing compound cutting, refer to the section for press cutting, miter cutting and bevel cutting.

## Cutting aluminum extrusion

When cutting aluminum extrusions, use spacer blocks or pieces of scrap as shown in the figure to prevent deformation of the aluminum. Use a cutting lubricant to prevent build-up of the aluminum material on the circular saw blade.

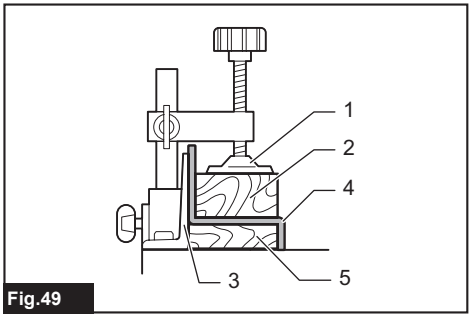



Fig.49

► **1.** Vise **2.** Spacer block **3.** Guide fence **4.** Aluminum extrusion **5.** Spacer block

⚠***WARNING:*** **Do not cut thick or round aluminum extrusions.** These extrusions are difficult to secure. The clamping of the workpiece may loosen during cutting. This may result in loss of control and cause serious personal injury.

## Wood facing

Use of wood facing helps to assure splinter-free cuts in workpieces. Attach a wood facing to the guide fence using the holes in the guide fence.
See the figure below for the dimensions of a recommended wood facing.

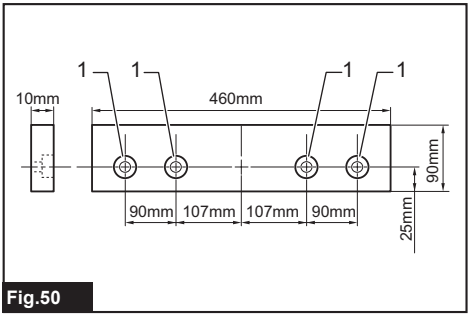



**Fig.50**

► **1.** Hole

**⚠*CAUTION:* Use straight wood of even thickness as the wood facing.**

**⚠*CAUTION:* Use screws to attach the wood facing to the guide fence. Install the screws so that their heads are below the surface of the wood facing.**

**⚠*CAUTION:* When the wood facing is attached, do not turn the turn base with the handle lowered.** The circular saw blade or the wood facing will be damaged.

## Cutting repetitive lengths

When cutting several pieces of stock to the same length, ranging from 240 mm to 400 mm, use the set plate to improve efficiency.

**1.** Install the set plate on the holder as shown in the figure.

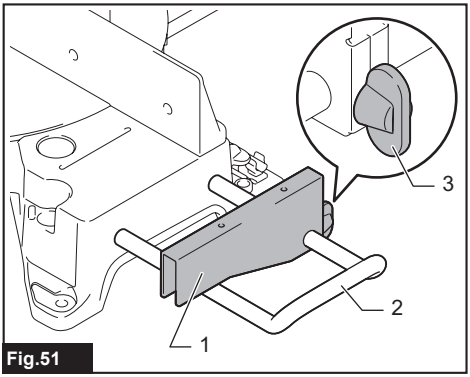



**Fig.51**

► **1.** Set plate **2.** Holder **3.** Screw

**2.** Align the cutting line on your workpiece with either the left or right side of the groove in the kerf board. While holding the workpiece, move the set plate flush against the end of the workpiece.

**3.** Secure the set plate with the screw. When you do not use the set plate, loosen the screw and move the set plate aside to avoid interference.

**NOTE:** Use of the holder-rod assembly (optional accessory) allows cutting repetitive lengths up to approximately 2,200 mm.

# Cutting as table saw

When operating this tool as a table saw (bench saw), this tool is intended to cut wood products only.

**⚠*WARNING:* Always lock the carriage in the lowered position by pulling and turning the stopper pin to the locked position.**

**⚠*WARNING:* Always use "work helpers", such as push sticks and push blocks, when there is a risk that your hands or fingers may come close to the circular saw blade. Be sure to use them when cutting small or narrow workpieces.**

**⚠*WARNING:* Always hold the workpiece firmly with the table and the rip fence. Do not bend or twist the workpiece while feeding.** If the workpiece is bent or twisted, dangerous kickbacks may occur.

**⚠*WARNING:* NEVER withdraw the workpiece while the circular saw blade is running. If you want withdraw the workpiece before completing a cut, switch off the tool while holding the workpiece firmly, and then wait until the circular saw blade comes to complete stop.** Failure to do so may cause dangerous kickbacks.

**⚠*WARNING:* NEVER remove cut-off material while the circular saw blade is running.**

**⚠*WARNING:* NEVER place your hands or fingers in the path of the circular saw blade.**

**⚠*WARNING:* Always secure the rip fence firmly.** Failure to do so may cause dangerous kickback.

***NOTICE:* When using the tool in the table saw mode (bench saw mode), flip the sub fence outward and then place the blade cover on the turn base.** For how to place the blade cover on the turn base, see the section "*Blade cover storage*".

## Work helpers

Push sticks, push blocks or auxiliary fences are types of "work helpers". Use them to make safe and accurate cuts without touching the circular saw blade with any part of your body.

### Push block

Make a push block from 15 mm plywood pieces. Handle should be in center of plywood piece. Fasten with glue and wood screws as shown in the figure. Be sure to attach 10 mm x 9 mm x 30 mm wood piece with glue. (Never use nails in push block.) This part prevents the circular saw blade from dulling if the operator accidentally cuts into the push block.

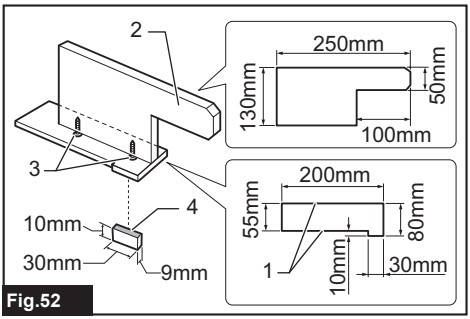


Fig.52

► **1.** Face/edge parallel **2.** Handle **3.** Wood screw **4.** Glue surface

## Auxiliary fence

Make an auxiliary fence from 10 mm and 15 mm plywood pieces.

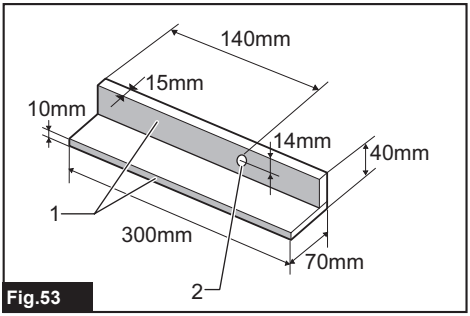


Fig.53

► **1.** Face/edge parallel **2.** Hole (7 mm in diameter)

Remove the rip fence, clamping screw (B), flat washer, and square nut from the rip fence holder. Then, attach the auxiliary fence to the rip fence holder using an M6 bolt longer than M6x50, washers, and a nut.

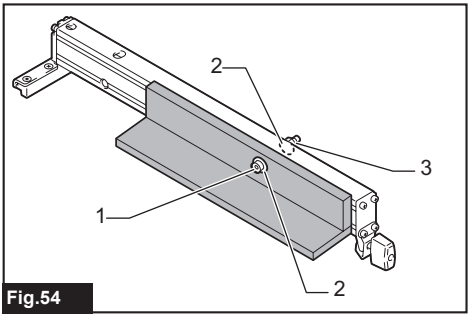


Fig.54

► **1.** Bolt M6 **2.** Washer **3.** Nut

## Ripping

⚠***CAUTION:*** **When cutting long or large workpieces, always provide adequate support behind the top table. Do not allow a long board to move or shift on the top table.** This will cause the circular saw blade to bind and increase the possibility of kickback and personal injury. The support must be at the same height as the top table.

**1.** Adjust the height of cut a bit higher than the thickness of the workpiece. Adjust the height of the top table to change the cutting height.

**2.** Position the rip fence to the desired width of rip and secure it by tightening the clamping screw (A). Before ripping, make sure the clamping screw (A) and (B) of the rip fence holder are secured.

**3.** Turn the tool on and gently feed the workpiece into the circular saw blade along with the rip fence.

(1) When the width of rip is 50 mm or more, use a push stick.

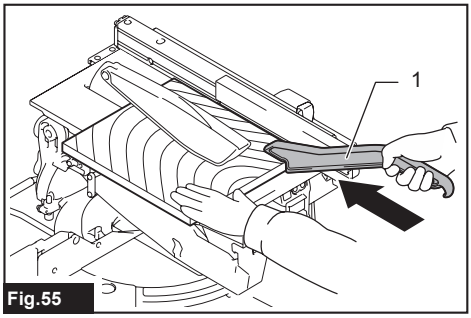


Fig.55

► **1.** Push stick

(2) When the width of rip is less than 50 mm, use the auxiliary fence and push block.

Install the auxiliary fence to the rip fence holder securely.

Feed the workpiece by hand until its rear end reaches approximately 25 mm inside the front edge of the top table. Then, use the push block placed on the auxiliary fence to continue feeding the workpiece until the cut is complete.

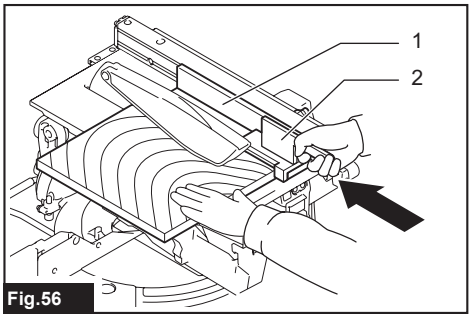


Fig.56

► **1.** Auxiliary fence **2.** Push block

## Carrying tool

Before carrying the tool, be sure to remove the battery cartridge and secure all movable parts. Always check the following:

- The battery cartridge is removed.
- The top table is secured at the topmost position so that the circular saw blade does not protrudes from the top surface of the top table.
- The carriage is at 0° bevel angle position and secured.
- The carriage is lowered and locked.
- The turn base is at the full right miter angle position and secured.
- The holders are stored and secured.

Carry the tool by holding both sides of the tool base.

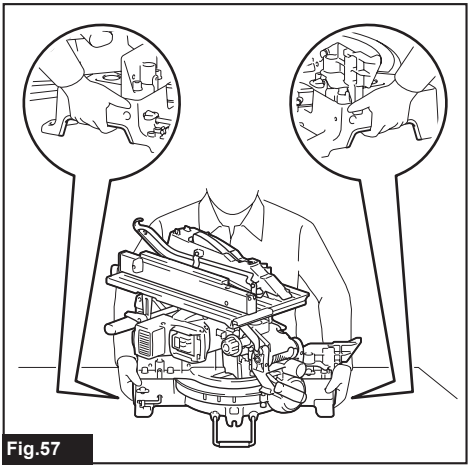


Fig.57

⚠***CAUTION:*** **Always secure all moving parts before carrying the tool.** Moving or sliding parts may cause loss of control or balance and result in personal injury.

⚠***CAUTION:*** **Make sure that the carriage elevation is properly locked at its bottom by the stopper pin.** If the stopper pin is not engaged properly, the carriage may jump up suddenly and cause personal injury.

# WIRELESS ACTIVATION FUNCTION

## What you can do with the wireless activation function

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

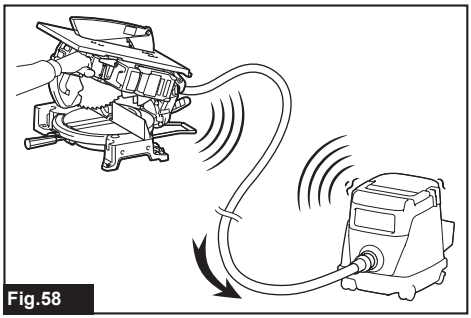


Fig.58

To use the wireless activation function, prepare following items:

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

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

**1.** Installing the wireless unit

**2.** Tool registration for the vacuum cleaner

**3.** Starting the wireless activation function

## Installing the wireless unit

***Optional accessory***

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

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

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

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

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

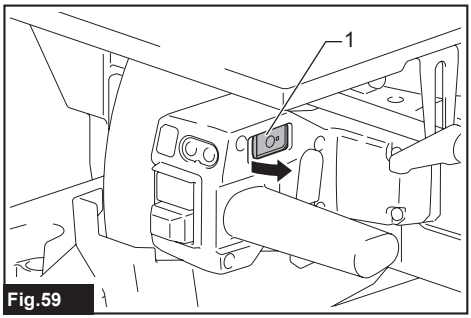



Fig.59

► **1.** Lid

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

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

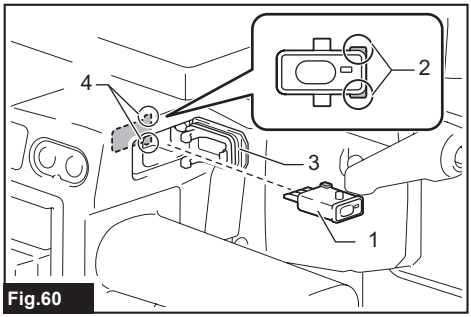



**Fig.60**

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

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

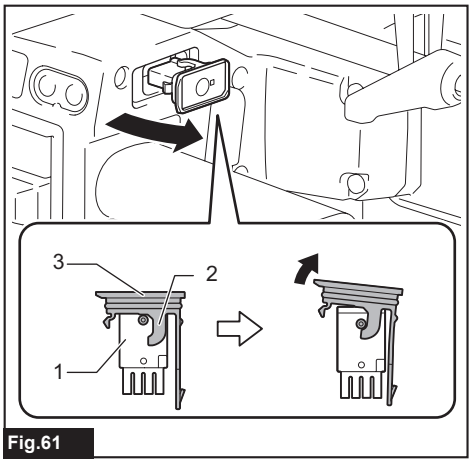



**Fig.61**

► **1.** Wireless unit **2.** Hook **3.** Lid

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

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

## Tool registration for the vacuum cleaner

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

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

**NOTE:** During tool registration, do not operate any switches other than the wireless activation button, and do not turn on the tool or the vacuum cleaner.

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

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

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

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

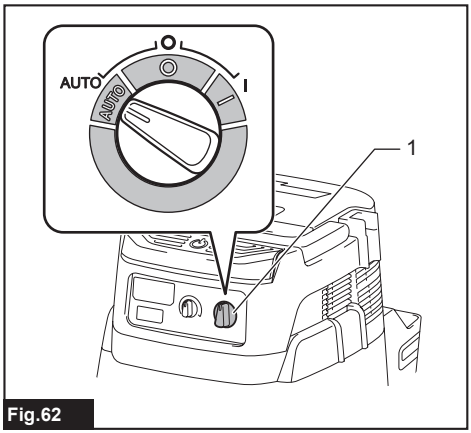



**Fig.62**

► **1.** Stand-by switch

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

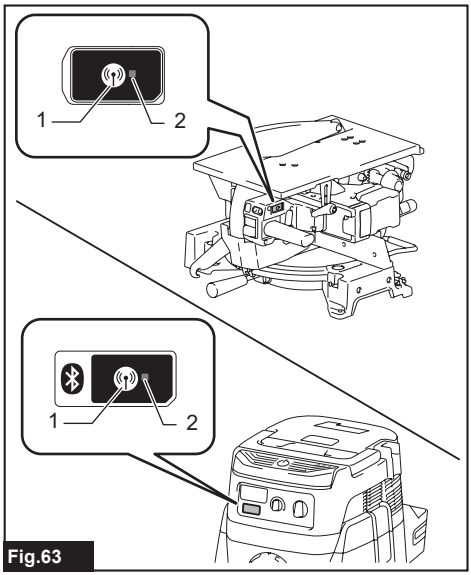



Fig.63

► **1.** Wireless activation button **2.** Wireless activation lamp

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

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

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

## Starting the wireless activation function

⚠***CAUTION:*** **When operating the vacuum cleaner by the vacuum button, make sure the blade guard is closed.** Accidental contact to the circular saw blade may cause injury.

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

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

After registering a tool to the vacuum cleaner, the vacuum cleaner will automatically run along with the switch operation of the tool.
Turn on the tool to activate the vacuum cleaner during operation.
The vacuum cleaner can also be activated even when not performing a cutting operation by pressing the vacuum button on the tool.

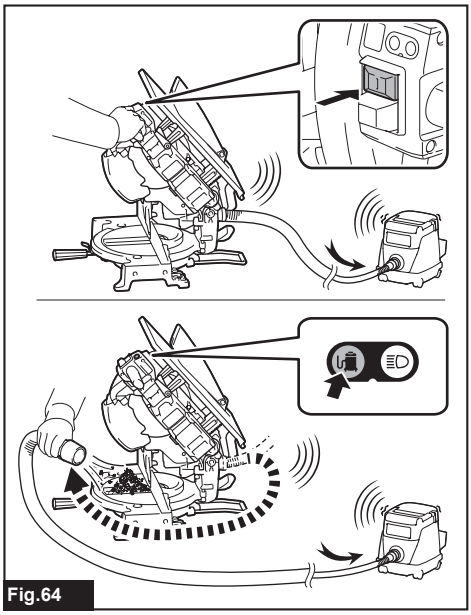


Fig.64

**1.** Install the wireless unit to the tool.

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

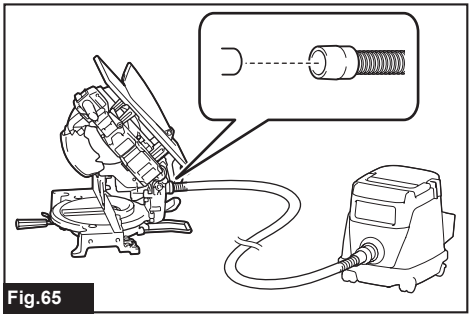


Fig.65

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

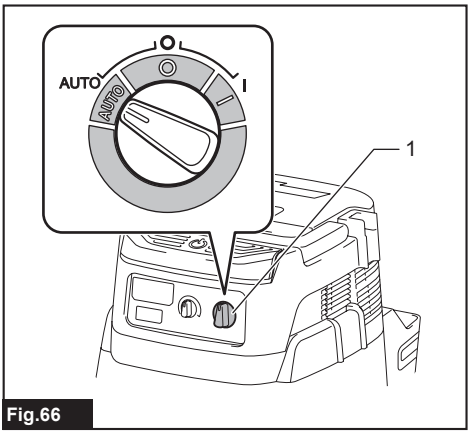



Fig.66

► **1.** Stand-by switch

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

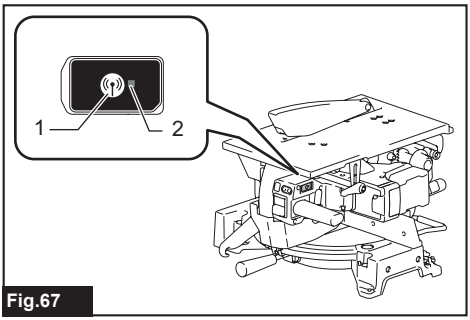



Fig.67

► **1.** Wireless activation button **2.** Wireless activation lamp

**5.** Turn on the tool. Check if the vacuum cleaner runs while the tool is operating.

**6.** Press the vacuum button to function the vacuum cleaner. Check if the wireless activation lamp lights up in blue and the cleaner keeps running until you press the button again.

**7.** To stop the vacuum operation, either turn off the tool or press the vacuum button again. The vacuum cleaner stops running a few seconds after the switch operation, and then the lamp turns to blink in blue.

**NOTE:** Switch status (turning the cleaner on/off) can be learned in the wireless activation lamp. For details, refer to the section for description of the wireless activation lamp status.

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

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

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

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

**NOTE:** When two or more tools are registered to one vacuum cleaner, the vacuum cleaner may start running even if you do not turn on the tool or press the vacuum button because another user is using the wireless activation function.

## Description of the wireless activation lamp status

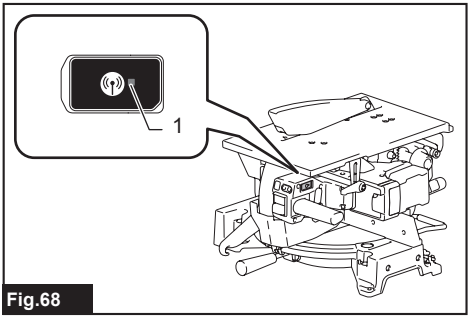



Fig.68

► **1.** Wireless activation lamp

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

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

## Cancelling tool registration for the vacuum cleaner

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

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

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

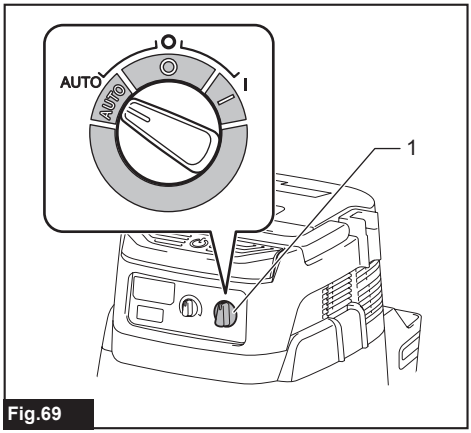



**Fig.69**

► **1.** Stand-by switch

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

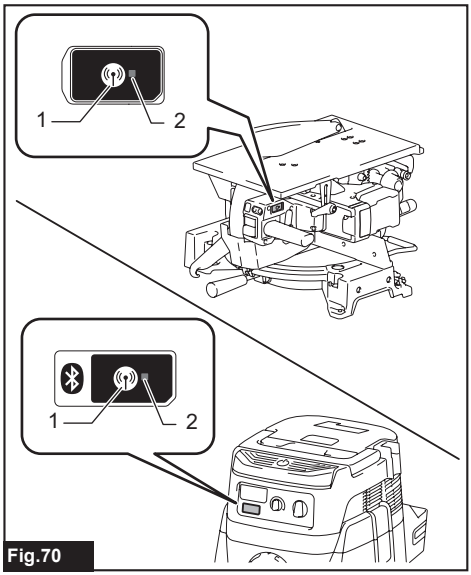



**Fig.70**

► **1.** Wireless activation button **2.** Wireless activation lamp

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

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

## Troubleshooting for wireless activation function

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

| State of abnormality | Probable cause (malfunction) | Remedy |
|---|---|---|
| The wireless activation lamp does not light/blink. | The wireless unit is not installed into the tool.<br>The wireless unit is improperly installed into the tool. | Install the wireless unit correctly. |
| | The terminal of the wireless unit and/or the slot is dirty. | Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot. |
| | The wireless activation button on the tool has not been pushed. | Push the wireless activation button on the tool briefly. |
| | The stand-by switch on the vacuum cleaner is not set to "AUTO". | Set the stand-by switch on the vacuum cleaner to "AUTO". |
| | No power supply | Supply the power to the tool and the vacuum cleaner. |
| Cannot finish tool registration / cancelling tool registration successfully. | The wireless unit is not installed into the tool.<br>The wireless unit is improperly installed into the tool. | Install the wireless unit correctly. |
| | The terminal of the wireless unit and/or the slot is dirty. | Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot. |
| | The stand-by switch on the vacuum cleaner is not set to "AUTO". | Set the stand-by switch on the vacuum cleaner to "AUTO". |
| | No power supply | Supply the power to the tool and the vacuum cleaner. |
| | Incorrect operation | Push the wireless activation button briefly and perform the tool registration/cancellation procedures again. |
| | The tool and vacuum cleaner are away from each other (out of the transmission range). | Get the tool and vacuum cleaner closer to each other. The maximum transmission distance is approximately 10 m however it may vary according to the circumstances. |
| | Before finishing the tool registration/ cancellation;<br>- the tool is turned on or;<br>- the vacuuming button on the tool is pressed or;<br>- the power button on the vacuum cleaner is turned on. | Push the wireless activation button briefly and perform the tool registration/cancellation procedures again. |
| | The tool registration procedures for the tool or vacuum cleaner have not finished. | Perform the tool registration procedures for both the tool and the vacuum cleaner at the same timing. |
| | Radio disturbance by other appliances which generate high-intensity radio waves. | Keep the tool and vacuum cleaner away from the appliances such as Wi-Fi devices and microwave ovens. |

| State of abnormality | Probable cause (malfunction) | Remedy |
|---|---|---|
| The vacuum cleaner does not run along with the switch operation of the tool. | The wireless unit is not installed into the tool.<br>The wireless unit is improperly installed into the tool. | Install the wireless unit correctly. |
| | The terminal of the wireless unit and/or the slot is dirty. | Gently wipe off dust and dirt on the terminal of the wireless unit and clean the slot. |
| | The wireless activation button on the tool has not been pushed. | Push the wireless activation button briefly and make sure that the wireless activation lamp is blinking in blue. |
| | The stand-by switch on the vacuum cleaner is not set to "AUTO". | Set the stand-by switch on the vacuum cleaner to "AUTO". |
| | More than 10 tools are registered to the vacuum cleaner. | Perform the tool registration again.<br>If more than 10 tools are registered to the vacuum cleaner, the tool registered earliest will be cancelled automatically. |
| | The vacuum cleaner has failed to register tools successfully. | Renew tool registrations. |
| | The vacuum cleaner erased all tool registrations. | Perform the tool registration again. |
| | No power supply | Supply the power to the tool and the vacuum cleaner. |
| | The tool and vacuum cleaner are away from each other (out of the transmission range). | Get the tool and vacuum cleaner closer each other. The maximum transmission distance is approximately 10 m however it may vary according to the circumstances. |
| | Radio disturbance by other appliances which generate high-intensity radio waves. | Keep the tool and vacuum cleaner away from the appliances such as Wi-Fi devices and microwave ovens. |
| The vacuum cleaner runs while no switches of the tool are in operation. | Other users are using the wireless activation of the vacuum cleaner with their tools. | Turn off the wireless activation button of the other tools or cancel the tool registration of the other tools. |

# MAINTENANCE

***WARNING:* Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.** Failure to removing the battery cartridge and switch off the tool may result in accidental start up of the tool which may result in serious personal injury.

***WARNING:* Always make sure that the circular saw blade is sharp and clean for the best and safest performance.** Attempting a cut with a dull or dirty circular saw blade may cause kickback and result in a serious personal injury.

***CAUTION:* Do not clamp or tie the blade guard to the open position during cleaning.** An exposed circular saw blade may result in personal injury.

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

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

## Adjusting the cutting angle

This tool is carefully adjusted and aligned at the factory. However, rough handling may result in misalignment. If your tool is not aligned properly, follow the steps below.

### Miter angle

**1.** Loosen the grip that secures the turn base.

**2.** Turn the turn base so that the pointer points to 0° on the miter angle scale.

**3.** Tighten the grip and loosen the hex socket bolts securing the guide fence using the hex wrench.

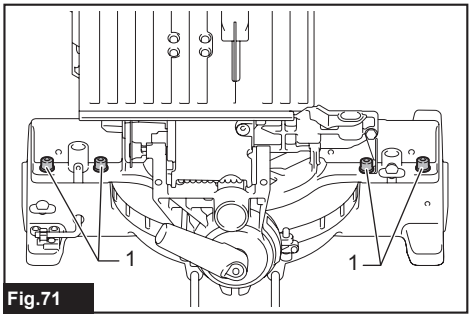



**Fig.71**

► **1.** Hex socket bolt

**4.** Lower the handle fully and lock it in the lowered

position by engaging the stopper pin.

**5.** Align the guide fence so that the side of the circular saw blade is square to the face of the guide fence. Use a triangular rule or a try square to check the alignment.

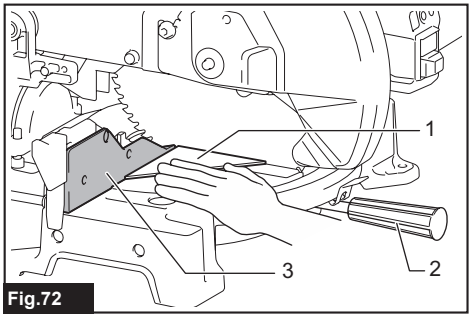


**Fig.72**

► **1.** Triangular rule **2.** Grip **3.** Guide fence

**6.** Tighten the hex socket bolts that secure the guide fence securely, starting from the right side.

## Bevel angle

### 0° bevel angle

**1.** Lower the handle fully and lock it in the lowered position by engaging the stopper pin.

**2.** Loosen the lever at the rear of the tool.

**3.** Turn the 0° bevel angle adjusting bolt on the right side of the turn base counterclockwise. Rotate it two or three times to tilt the circular saw blade to the right.

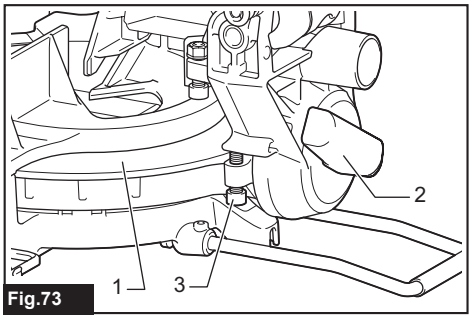


**Fig.73**

► **1.** Turn base **2.** Lever **3.** 0° adjusting bolt

**4.** Turn the 0° bevel angle adjusting bolt clockwise. Use a triangular rule or a try-square to square the side of the circular saw blade with the top surface of the turn base.

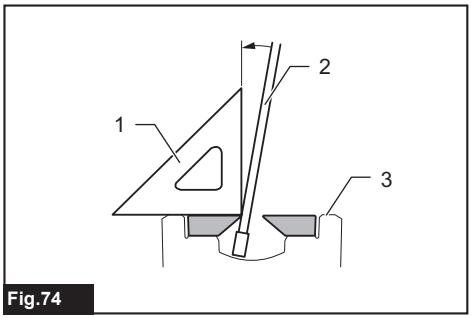


**Fig.74**

► **1.** Triangular rule **2.** Circular saw blade **3.** Top surface of turn base

Make sure that the pointer points to 0° on the bevel angle scale. If not, loosen the screw that secures the pointer. Adjust the pointer so that it points to 0°.

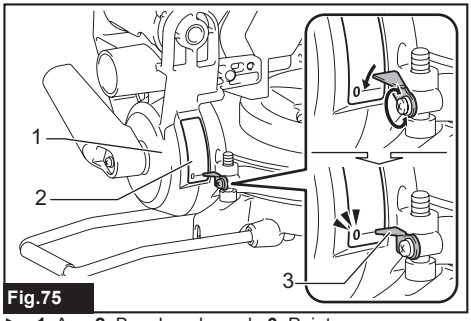


**Fig.75**

► **1.** Arm **2.** Bevel angle scale **3.** Pointer

### 45° bevel angle

***NOTICE:*** **Before adjusting the 45° bevel angle, finish 0° bevel angle adjustment.**

**1.** Loosen the lever and tilt the carriage to the left fully.

Make sure that the pointer for miter angle points to 45° on the bevel angle scale.

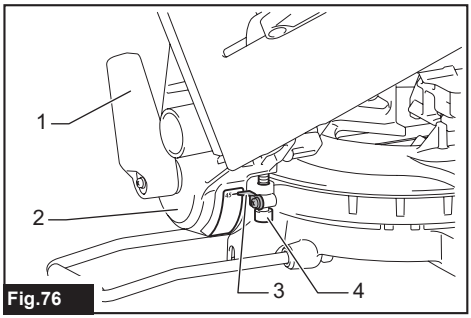


**Fig.76**

► **1.** Lever **2.** Arm **3.** Pointer **4.** 45° bevel angle adjusting bolt

**2.** If the pointer does not point to 45°, turn the 45° bevel angle adjusting bolt until the pointer points to 45°.

## After use

After use, wipe off chips and dust adhering to the tool with a cloth or the like. Clean the blade guard according to the instructions. (See the section titled "Blade guard" for details.) Lubricate the sliding parts with machine oil to prevent rust.

# 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. Only use an accessory or attachment for its stated purpose.

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

- Carbide-tipped circular saw blades
- Dust bag
- Vertical vise
- Horizontal vise
- Holder
- Holder assembly
- Holder rod assembly
- Set plate
- Push stick
- Rip fence assembly
- Triangular rule
- Hex wrench
- Wireless unit
- Makita genuine battery and charger

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

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