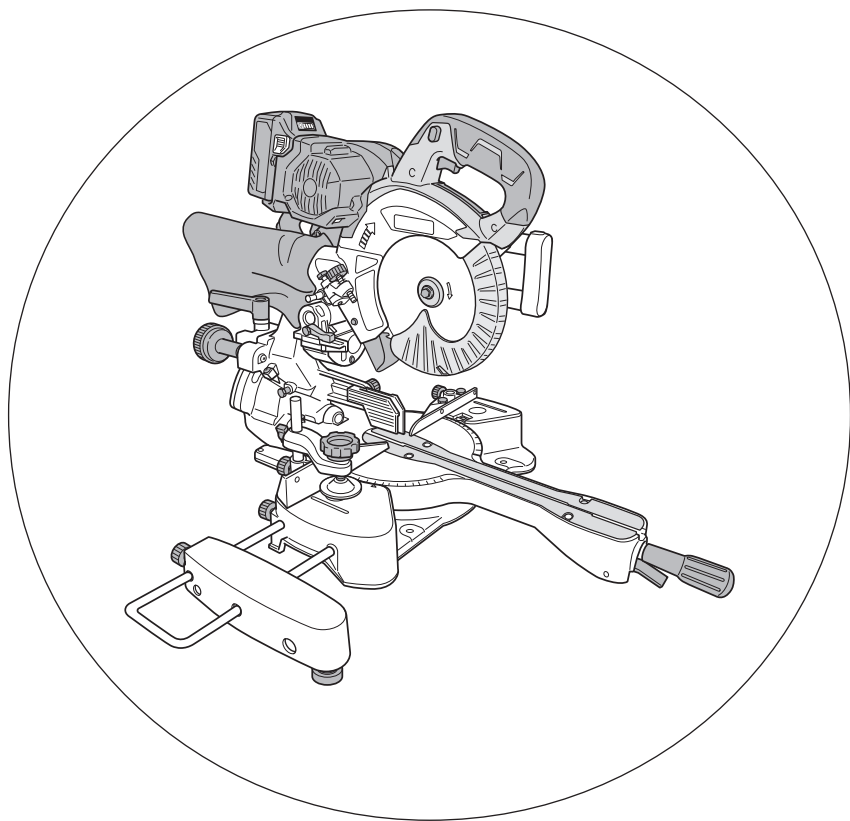


C3607DRA



(en) Handling instructions

(zh) 使用說明書

GENERAL POWER TOOL SAFETY WARNINGS

WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) **Keep work area clean and well lit.**
Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.**
Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.**
Distractions can cause you to lose control.

2) Electrical safety

- a) **Power tool plugs must match the outlet.**
Never modify the plug in any way.
Do not use any adapter plugs with earthed (grounded) power tools.
Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.**
There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.**
Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.**
Keep cord away from heat, oil, sharp edges or moving parts.
Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.**
Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.**
Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool.**
Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.**
Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.

- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.**
Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
 - d) **Remove any adjusting key or wrench before turning the power tool on.**
A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
 - e) **Do not overreach. Keep proper footing and balance at all times.**
This enables better control of the power tool in unexpected situations.
 - f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.**
Loose clothes, jewellery or long hair can be caught in moving parts.
 - g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.**
Use of dust collection can reduce dust-related hazards.
 - h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.**
A careless action can cause severe injury within a fraction of a second.
- #### 4) Power tool use and care
- a) **Do not force the power tool. Use the correct power tool for your application.**
The correct power tool will do the job better and safer at the rate for which it was designed.
 - b) **Do not use the power tool if the switch does not turn it on and off.**
Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
 - c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.**
Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**
Power tools are dangerous in the hands of untrained users.
 - e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.**
If damaged, have the power tool repaired before use.
Many accidents are caused by poorly maintained power tools.
 - f) **Keep cutting tools sharp and clean.**
Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.**
Use of the power tool for operations different from those intended could result in a hazardous situation.
 - h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.**

Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Battery tool use and care

a) Recharge only with the charger specified by the manufacturer.

A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

b) Use power tools only with specifically designated battery packs.

Use of any other battery packs may create a risk of injury and fire.

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

Shorting the battery terminals together may cause burns or a fire.

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

Liquid ejected from the battery may cause irritation or burns.

e) Do not use a battery pack or tool that is damaged or modified.

Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.

f) Do not expose a battery pack or tool to fire or excessive temperature.

Exposure to fire or temperature above 130 °C may cause explosion.

g) Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.

Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

6) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts.

This will ensure that the safety of the power tool is maintained.

b) Never service damaged battery packs.

Service of battery packs should only be performed by the manufacturer or authorized service providers.

PRECAUTION

Keep children and infirm persons away.

When not in use, tools should be stored out of reach of children and infirm persons.

SAFETY INSTRUCTIONS FOR MITER SAW

a) Miter 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.

b) 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.

c) 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.

d) 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.

e) Never cross your hand over the intended line of cutting either in front or behind the saw blade.

Supporting the workpiece "cross handed" i.e. holding the workpiece to the right of the saw blade with your left hand or vice versa is very dangerous.

f) 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.

g) 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 tile spinning saw blade while cutting. There should be no nails or foreign objects in the workpiece.

h) 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.

i) 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.

j) Ensure the miter saw is mounted or placed on a level, firm work surface before use.

A level and firm work surface reduces the risk of the miter saw becoming unstable.

k) Plan your work. Every time you change the bevel or miter 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.

l) 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 miter saw table 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.

m) 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.

English

- n) **The cut-off piece must not be jammed or pressed by any means against the spinning saw blade.**
If confined, i.e. using length stops, the cut-off piece could get wedged against the blade and thrown violently.
- o) **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.
- p) **Let the blade reach full speed before contacting the workpiece.**
This will reduce the risk of the workpiece being thrown.
- q) **If the workpiece or blade becomes jammed, turn the miter 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 miter saw.
- r) **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.
- s) **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.

PRECAUTIONS ON USING SLIDE COMPOUND MITER SAW

1. Keep the floor area around the machine level. Well maintained and free of loose materials e.g. chips and cut-offs.
2. Provide adequate general or localized lighting.
3. Do not use power tools for applications other than those specified in the handling instructions.
4. Repairing must be done only by authorized service facility. Manufacturer is not responsible for any damages and injuries due to the repair by the unauthorized persons as well as the mishandling of the tool.
5. To ensure the designed operational integrity of power tools, do not remove installed covers or screws.
6. Do not touch movable parts or accessories unless the power source has been disconnected.
7. Use your tool at lower input than specified on the nameplate; otherwise, the finish may be spoiled and working efficiency reduced due to motor overload.
8. Do not wipe plastic parts with solvent. Solvents such as gasoline, thinner, benzene, carbon tetrachloride, alcohol, may damage and crack plastic parts. Do not wipe them with such solvent. Clean plastic parts with a soft cloth lightly dampened with soapy water.
9. Use only original HiKOKI replacement parts.
10. The exploded assembly drawing on this handling instructions should be used only for authorized service facility.
11. Never cut ferrous metals or masonry.
12. Adequate general or localized lighting is provided. Stock and finished workpieces are located close to the operators normal working position.
13. Wear suitable personal protective equipment when necessary, this could include:
Hearing protection to reduce the risk of induced hearing loss.
Eye protection to reduce the risk of injuring an eye.
Respiratory protection to reduce the risk of inhalation of harmful dust.

Gloves for handling saw blades (saw blades shall be carried in a holder wherever practicable) and rough material.

14. The operator is adequately trained in the use, adjustment and operation of the machine.
15. Refrain from removing any cut-offs or other parts of the workpiece from the cutting area whilst the machine is running and the saw head is not in the rest position.
16. Never use the slide compound miter saw with its lower guard locked in the open position.
17. Ensure that the lower guard moves smoothly.
18. Do not use the saw without guards in position, in good working order and properly maintained.
19. Use correctly sharpened saw blades. Observe the maximum speed marked on the saw blade.
20. Do not use saw blades which are damaged or deformed.
21. Do not use saw blades manufactured from high speed steel.
22. Use only saw blades recommended by HiKOKI.
Use of saw blade comply with EN847-1.
23. The saw blades should be 190 mm external diameter.
24. Select the correct saw blade for the material to be cut.
25. Never operate the slide compound miter saw with the saw blade turned upward or to the side.
26. Ensure that the workpiece is free of foreign matter such as nails.
27. Replace the table insert when worn.
28. Do not use the saw to cut other than aluminium, wood or similar materials.
29. Do not use the saw to cut other materials than those recommended by the manufacturer.
30. Blade replacement procedure, including the method for repositioning and a warning that this must be carried out correctly.
31. Connect the slide compound miter saw to a dust collecting device when sawing wood.
32. Take care when slotting.
33. When transporting or carrying the tool, do not grasp the holder. Grasp the handle instead of the holder.
34. Start cutting only after motor revolution reaches maximum speed.
35. Promptly cut OFF the switch when abnormality observed.
36. Shut off power and wait for saw blade to stop before servicing or adjusting tool.
37. During a miter or bevel cut the blade should not be lifted until it has stopped rotation completely.
38. During slide cutting operation, the saw must be pushed and slid away from the operator.
39. Take all the possibility of residual risks in cutting operation into your consideration, such as the laser radiation to your eyes, the inadvertent access to moving parts on slide mechanical parts on machine and so on.
40. Ensure before each cut that the machine is stable.
Use only saw blades whose maximum permitted speed is higher than the no-load speed of the power tool.
Do not replace the laser with a different type.
41. Do not stand in a line with the saw blade in front of the machine. Always stand aside of the saw blade. This protects your body against possible kickback. Keep hands, fingers and arms away from the rotating saw blade.
Do not cross your arms when operating the tool arm.
42. If the saw blade should become jammed, switch the machine off and hold the workpiece until the saw blade comes to a complete stop. To prevent kickback, the workpiece may not be moved until after the machine has come to a complete stop.
Correct the cause for the jamming of the saw blade before restarting the machine.

ADDITIONAL SAFETY WARNINGS

1. Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
2. Never disassemble the rechargeable battery and charger.
3. Never short-circuit the rechargeable battery. Shortcircuiting the battery will cause a great electric current and overheat. It results in burn or damage to the battery.
4. Do not dispose of the battery in fire. If the battery is burnt, it may explode.
5. When using this unit continuously, the unit may overheat, leading to damage in the motor and switch. Please leave it without using it for approximately 15 minutes.
6. Do not insert object into the air ventilation slots of the charger. Inserting metal objects or inflammables into the charger air ventilation slots will result in electrical shock hazard or damaged charger.
7. Using an exhausted battery will damage the charger.
8. Bring the battery to the shop from which it was purchased as soon as the post-charging battery life becomes too short for practical use. Do not dispose of the exhausted battery.
9. Pull out battery before carrying out any adjustment, servicing or maintenance.
When finished with a job, pull out the battery.
10. Do not use the product if the tool or the battery terminals (battery mount) are deformed.
Installing the battery could cause a short circuit that could result in smoke emission or ignition.
11. Keep the tool's terminals (battery mount) free of swarf and dust.
 - Prior to use, make sure that swarf and dust have not collected in the area of the terminals.
 - During use, try to avoid swarf or dust on the tool from falling on the battery.
 - When suspending operation or after use, do not leave the tool in an area where it may be exposed to falling swarf or dust.
Doing so could cause a short circuit that could result in smoke emission or ignition.
12. Always use the tool and battery at temperatures between 0°C and 40°C.

CAUTION ON LITHIUM-ION BATTERY

To extend the lifetime, the lithium-ion battery equips with the protection function to stop the output.

In the cases of 1 to 3 described below, when using this product, even if you are pulling the switch, the motor may stop. This is not the trouble but the result of protection function.

1. When the battery power remaining runs out, the motor stops.
In such a case, charge it up immediately.
2. If the tool is overloaded, the motor may stop. In this case, release the switch of tool and eliminate causes of overloading. After that, you can use it again.
3. If the battery is overheated under overload work, the battery power may stop.
In this case, stop using the battery and let the battery cool. After that, you can use it again.

Furthermore, please heed the following warning and caution.

WARNING

In order to prevent any battery leakage, heat generation, smoke emission, explosion and ignition beforehand, please be sure to heed the following precautions.

1. Make sure that swarf and dust do not collect on the battery.
- During work make sure that swarf and dust do not fall on the battery.

- Make sure that any swarf and dust falling on the power tool during work do not collect on the battery.
- Do not store an unused battery in a location exposed to swarf and dust.
- Before storing a battery, remove any swarf and dust that may adhere to it and do not store it together with metal parts (screws, nails, etc.).
- 2. Do not pierce battery with a sharp object such as a nail, strike with a hammer, step on, throw or subject the battery to severe physical shock.
- 3. Do not use an apparently damaged or deformed battery.
- 4. Do not use the battery in reverse polarity.
- 5. Do not connect directly to an electrical outlets or car cigarette lighter sockets.
- 6. Do not use the battery for a purpose other than those specified.
- 7. If the battery charging fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
- 8. Do not put or subject the battery to high temperatures or high pressure such as into a microwave oven, dryer, or high pressure container.
- 9. Keep away from fire immediately when leakage or foul odor are detected.
- 10. Do not use in a location where strong static electricity generates.
- 11. If there is battery leakage, foul odor, heat generated, discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or battery charger, and stop use.
- 12. Do not immerse the battery or allow any fluids to flow inside. Conductive liquid ingress, such as water, can cause damage resulting in fire or explosion. Store your battery in a cool, dry place, away from combustible and flammable items. Corrosive gas atmospheres must be avoided.

CAUTION

1. If liquid leaking from the battery gets into your eyes, do not rub your eyes and wash them well with fresh clean water such as tap water and contact a doctor immediately.
If left untreated, the liquid may cause eye-problems.
2. If liquid leaks onto your skin or clothes, wash well with clean water such as tap water immediately.
There is a possibility that this can cause skin irritation.
3. If you find rust, foul odor, overheating, discolor, deformation, and/or other irregularities when using the battery for the first time, do not use and return it to your supplier or vendor.

WARNING

If a conductive foreign matter enters in the terminal of lithium ion battery, the battery may be shorted, causing fire. When storing the lithium ion battery, obey surely the rules of following contents.

- Do not place conductive debris, nail and wires such as iron wire and copper wire in the storage case.
- To prevent shorting from occurring, load the battery in the tool or insert securely the battery cover for storing until the ventilator is not seen.

REGARDING LITHIUM-ION BATTERY TRANSPORTATION

When transporting a lithium-ion battery, please observe the following precautions.

WARNING

Notify the transporting company that a package contains a lithium-ion battery, inform the company of its power output and follow the instructions of the transportation company when arranging transport.

- Lithium-ion batteries that exceed a power output of 100 Wh are considered to be in the freight classification of Dangerous Goods and will require special application procedures.
- For transportation abroad, you must comply with international law and the rules and regulations of the destination country.

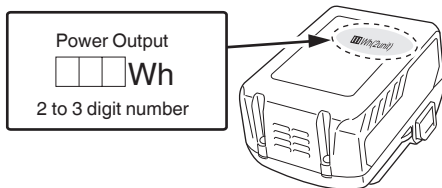


Fig. 1

NAMES OF PARTS

Tool main unit: C3607DRA

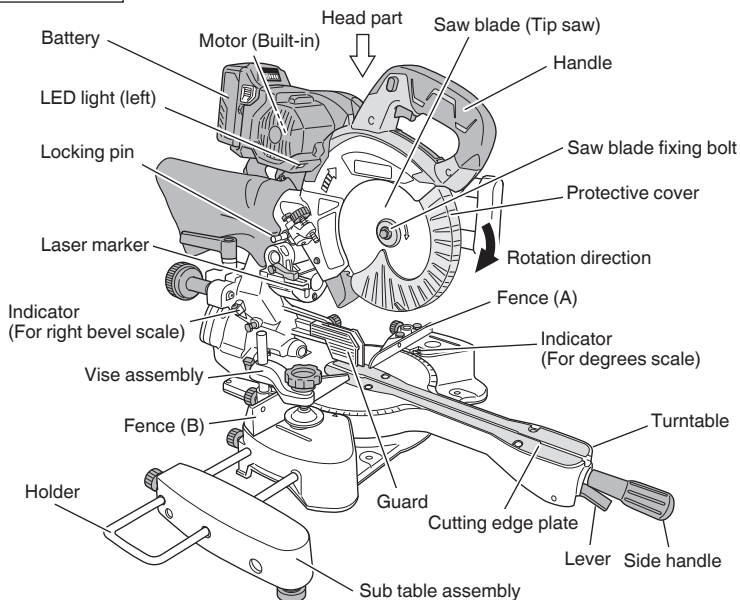


Fig. 2

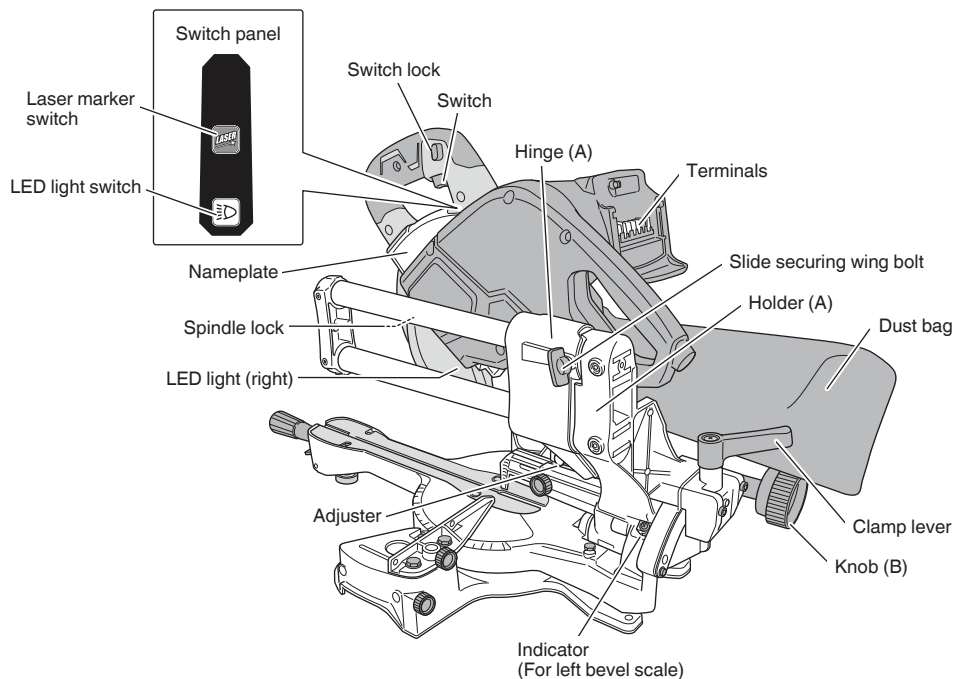


Fig. 3

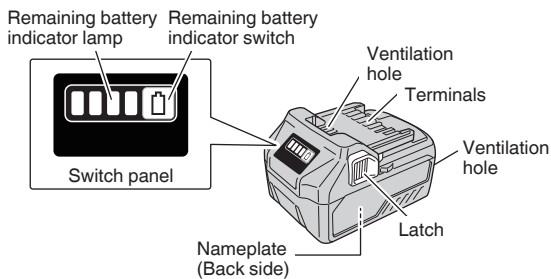
Battery: BSL36A18

Fig. 4

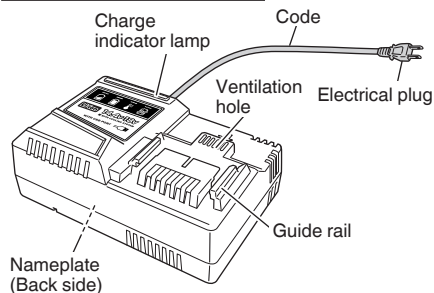
Battery Charger: UC18YSL3

Fig. 5

○ **Use a genuine HiKOKI battery when installing a new battery**

HiKOKI cannot offer any safety or product guarantee if batteries other than those specified by HiKOKI, or disassembled or modified batteries (including those in which batteries are disassembled and internal parts such as cells are replaced) are used.

STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed on page 57.

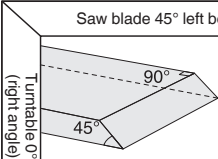
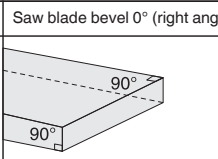
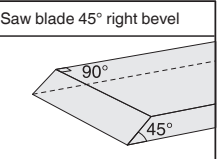
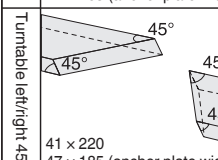
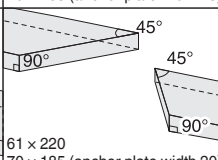
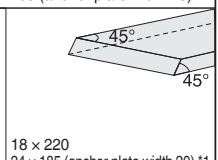
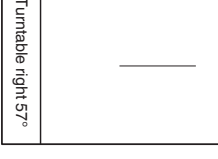
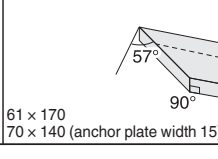
Standard accessories are subject to change without notice.

APPLICATION

Cutting various types of aluminium sash and wood.

SPECIFICATION

1. Tool main unit

| | | | |
|--|--|--|--|
| Model name | Cordless Slide Compound Miter Saw: C3607DRA (with laser marker, with bevel fine adjustment) | | |
| Motor | DC brushless motor | | |
| Saw blades that can be used | Outside diameter 190 mm × hole diameter 20 mm | | |
| No-load speed | 4000 /min {rpm} | | |
| Maximum cutting dimensions (Maximum height × maximum width; mm) | Saw blade 45° left bevel  41 × 312 47 × 265 (anchor plate width 25) *1 | Saw blade bevel 0° (right angle)  61 × 312 70 × 265 (anchor plate width 25) *1 | Saw blade 45° right bevel  18 × 312 24 × 265 (anchor plate width 25) *1 |
| | Turnable 0° (right angle)  41 × 220 47 × 185 (anchor plate width 20) *1 | Turnable left/right 45°  61 × 220 70 × 185 (anchor plate width 20) *1 | Turnable right 45°  18 × 220 24 × 185 (anchor plate width 20) *1 |
| | Turnable right 57°  61 × 170 70 × 140 (anchor plate width 15) *1 | Turnable left 31°  18 × 260 24 × 225 (anchor plate width 20) *1 | |
| | *1: The maximum dimension when the anchor plate is attached. Work carefully, as material may come into contact with the bottom of the head. For details, refer to page 16 "3. Preparation and adjustment for cutting tall materials." | | |
| Angle cutting range | Left 0° to 45° Right 0 to 57° | | |
| Bevel cutting range | Left 0° to 45° Right 0 to 45° | | |
| Composite cutting range | Left bevel 0° to 45° Left/right rotation 0° to 45° | | |
| | Right bevel 0° to 45° Left rotation 0° to 31° Right rotation 0° to 45° | | |
| LED light | White LED | | |
| Laser power | 0.4 mW or less (Class 1M) | | |
| Mounting dimensions | 220 mm width × 242 mm depth | | |
| Weight | 14.0 kg (with battery installed) | | |
| Usable battery*2 | Multi-volt type battery | | |

*2: Existing batteries (BSL3660/3626/3620, and BSL18xx, BSL14xx series) cannot be used.

2. Battery

| | |
|----------------------------------|--|
| Model name | BSL36A18 |
| Type | Cylindrical sealed lithium-ion battery |
| Battery voltage | 36 V/18 V (automatic switching *1) |
| Capacity | 2.5 Ah/5.0 Ah (automatic switching *1) |
| Cooling | Supported |
| Usable cordless products *2 | 18 V product 36 V product Multi-volt battery compatible product |
| Usable charger | Charger for sliding lithium-ion batteries |
| Remaining battery indicator lamp | Green LED |

*1: Automatically switched by the tool main unit.

*2: Refer to our general catalog for details.

CHARGING

Before using the power tool, charge the battery as follows.

1. **Connect the charger's power cord to the receptacle.** When connecting the plug of the charger to a receptacle, the charge indicator lamp will blink in red (At 1- second intervals).

- 2. Insert the battery into the charger.**
Firmly insert the battery into the charger as shown in **Fig. 6**.

- 3. Charging**
When inserting a battery in the charger, the charge indicator lamp will blink in blue.
When the battery becomes fully recharged, the charge indicator lamp will light up in green. (See **Table 1**)

- (1) Charge indicator lamp indication
The indications of the charge indicator lamp will be as shown in **Table 1**, according to the condition of the charger or the rechargeable battery.

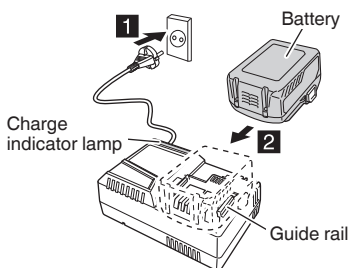





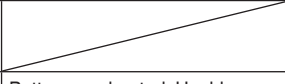




Fig. 6

Table 1

| Indications of the charge indicator lamp | | | | |
|---|---------------------|-------------------|--|--|
| Charge indicator lamp (RED / BLUE / GREEN / PURPLE) | Before charging | Blinks (RED) | Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds)  | Plugged into power source |
| | While charging | Blinks (BLUE) | Lights for 0.5 seconds. Does not light for 1 second. (off for 1 second)  | Battery capacity at less than 50% |
| | | Blinks (BLUE) | Lights for 1 second. Does not light for 0.5 seconds. (off for 0.5 seconds)  | Battery capacity at less than 80% |
| | | Lights (BLUE) | Lights continuously  | Battery capacity at more than 80% |
| | Charging complete | Lights (GREEN) | Lights continuously  (Continuous buzzer sound: about 6 seconds) |  |
| | Overheat standby | Blinks (RED) | Lights for 0.3 seconds. Does not light for 0.3 seconds. (off for 0.3 seconds)  | |
| | Charging impossible | Flickers (PURPLE) | Lights for 0.1 seconds. Does not light for 0.1 seconds. (off for 0.1 seconds)  (Intermittent buzzer sound: about 2 seconds) | Malfunction in the battery or the charger |

English

- (2) Regarding the temperatures and charging time of the rechargeable battery
The temperatures and charging time will become as shown in **Table 2**.

Table 2

| Charger | | UC18YSL3 | | | | |
|---------|--|---|--|---|--|--------------------------------|
| Battery | Type of battery | Li-ion | | | | |
| | Temperatures at which the battery can be recharged | 0°C – 50°C | | | | |
| | Charging voltage | 14.4 | | 18 | | |
| | Charging time, approx. (At 20°C) | BSL14xx series | | BSL18xx series | | Multi volt series |
| | | (4 cells) | (8 cells) | (5 cells) | (10 cells) | (10 cells) |
| | | min. | | | | |
| | | BSL1415S : 15 BSL1415 : 15 BSL1415X : 15 BSL1420 : 20 BSL1425 : 25 BSL1430C : 30 | BSL1430 : 20 BSL1440 : 26 BSL1450 : 32 BSL1460 : 38 | BSL1815S : 15 BSL1815 : 15 BSL1815X : 15 BSL1820 : 20 BSL1825 : 25 BSL1830C : 30 | BSL1830 : 20 BSL1840 : 26 BSL1850 : 32 BSL1860 : 38 | BSL36A18 : 32 BSL36B18 : 52 |

NOTE

The recharging time may vary according to the ambient temperature and power source voltage.

4. Disconnect the charger's power cord from the receptacle.
5. Hold the charger firmly and pull out the battery.

NOTE

Be sure to pull out the battery from the charger after use, and then keep it.

Regarding electric discharge in case of new batteries, etc.

As the internal chemical substance of new batteries and batteries that have not been used for an extended period is not activated, the electric discharge might be low when using them the first and second time. This is a temporary phenomenon, and normal time required for recharging will be restored by recharging the batteries 2 – 3 times.

How to make the batteries perform longer.

- (1) Recharge the batteries before they become completely exhausted.
When you feel that the power of the tool becomes weaker, stop using the tool and recharge its battery. If you continue to use the tool and exhaust the electric current, the battery may be damaged and its life will become shorter.
- (2) Avoid recharging at high temperatures.
A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.

CAUTION

- If the battery is charged while it is heated because it has been left for a long time in a location subject to direct sunlight or because the battery has just been used, the charge indicator lamp of the charger lights for 0.3 seconds, does not light for 0.3 seconds (off for 0.3 seconds). In such a case, first let the battery cool, then start charging.
- When the charge indicator lamp flickers (at 0.2-second intervals), check for and take out any foreign objects in the charger's battery connector. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.

- Since the built-in micro computer takes about 3 seconds to confirm that the battery being charged with UC18YSL3 is taken out, wait for a minimum of 3 seconds before reinserting it to continue charging. If the battery is reinserted within 3 seconds, the battery may not be properly charged.

PREPARATION BEFORE USE

WARNING

Be sure to turn off the switch and remove the battery from the tool main unit when carrying out the preparation before use.

1. Removing the packaging material

At the time of shipment from the factory, packaging materials are attached to the product to prevent problems during transportation.
After removing the machine from the packaging box, carefully remove this packaging material.

2. Installation of tabletop circular saw

Install the machine on a flat surface without any slope and in a stable condition.
Use the mounting holes on the base (2 holes at the front of the base and 3 holes at the back of the base, 9 mm inside diameter) when fixing the machine to a workbench. (**Fig. 7**)
Use 8 mm bolts for fixing the machine.

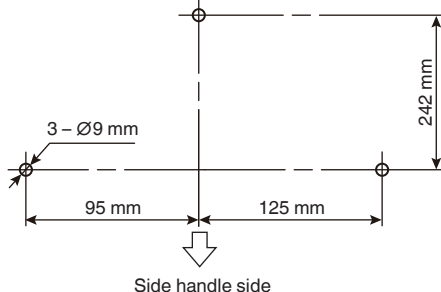


Fig. 7

When cutting, if you slide the head part forward and push down, the main unit may rattle.
Turn the set screw left or right to adjust it so that it touches the bottom lightly. (Fig. 8)

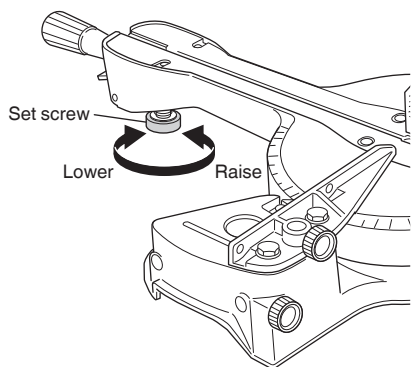


Fig. 8

3. Releasing the locking pin

When shipped from the factory, the head is fixed with a locking pin.

Before use, pull the locking pin in the direction of the arrow.

The locking pin can be pulled out easily if you slightly lower the handle. (Fig. 9)

When transporting the machine, push down the handle and push in the locking pin to fix the head.

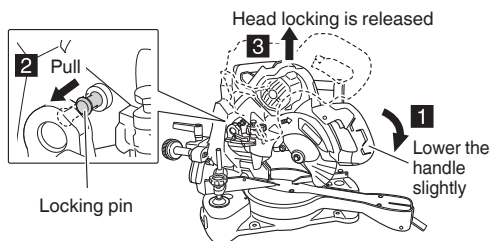


Fig. 9

4. Installation of standard accessories

Attach the standard accessory dust bag, holder, sub table assembly, and side handle as shown in Fig. 10.

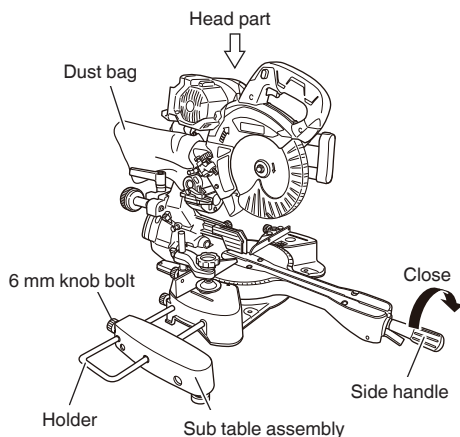


Fig. 10

The holder and sub table assembly are used to stabilize long cutting materials.

Use a carpenter's square or similar to ensure that the base and sub table assembly match.

Turn the set screw for height adjustment and move sub table assembly up and down to adjust them (Fig. 11).

After adjustment, fix the holder with the 6 mm knob bolt (standard accessory) at the rear of the base, and fix the 6 mm knob bolt on the sub table assembly.

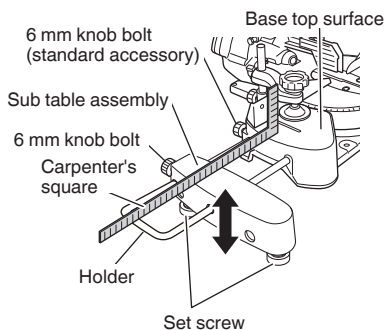


Fig. 11

INSTALLATION (REPLACEMENT) OF SAW BLADE

WARNING

- Be sure to turn off the switch and remove the battery from the tool main unit to prevent the risk of an accident.
- Do not attach or remove the saw blade fixing bolt with any tool other than the standard accessory box spanner. Doing so may cause over- or under-tightening, which may result in injury.

This product is not fitted with a saw blade when shipped from the factory.
Follow the procedure below when installing the saw blade or replacing it with a new one.

1. While pressing the spindle lock, if you slowly turn the saw blade fixing bolt with the standard accessory box spanner, there is a position where the rotation of the saw blade stops. In this state, the spindle is fixed (the saw blade cannot rotate).
Turn the box spanner clockwise in this state to loosen the saw blade fixing bolt. (Fig. 12)

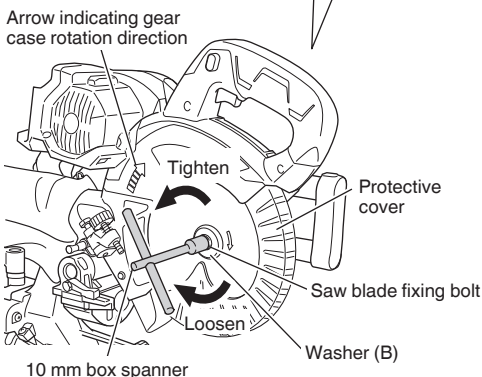
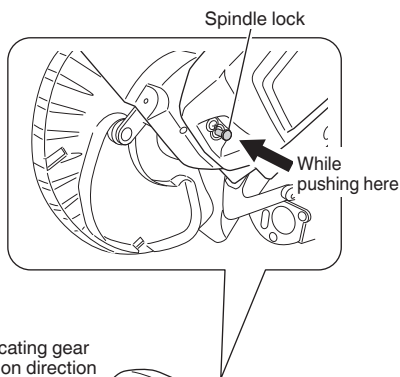


Fig. 12

2. Remove the saw blade fixing bolt and washer (B) while holding the saw blade so that it does not fall.
3. Lift the protective cover and remove the old saw blade.

WARNING

Securely tighten the saw blade fixing bolt with the standard accessory spanner so that it does not become loose.
Performing cutting work when the bolt is not tightened may result in injury.

CAUTION

- Attach the saw blade so that the rotation direction of the saw blade matches the rotation direction arrow on the gear case.
 - Check that the spindle lock used for attaching and removing the saw blade has returned to its original position.
4. Thoroughly remove any chips attached to washer (A), washer (B) and the saw blade fixing bolt.
 5. Install each part as shown in Fig. 13. Attach washer (A) and washer (B) to each side of the spindle, paying attention to the orientation. Attach the saw blade so that the rotation direction of the saw blade matches the rotation direction arrow on the gear case.

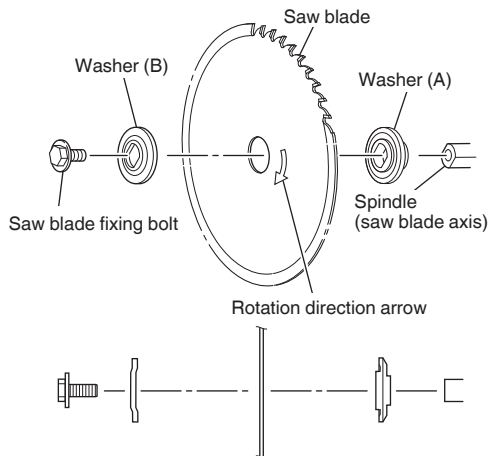


Fig. 13

6. While pressing the spindle lock, if you turn the saw blade fixing bolt counterclockwise with the standard accessory box spanner, the bolt will tighten.

NOTE

After installing the saw blade, check the face deflection of the saw blade. (See P.13 "2. Check the face deflection of the saw blade")

INSPECTION BEFORE USE

WARNING

- Check the following before use. Check steps 1 to 4 before inserting the battery into the tool body.
- Make sure that the saw blade fixing bolts are sufficiently tightened.
Loose screws may cause injury.
- Never secure the protective cover. Also make sure that it moves smoothly.
Exposing the saw blade may cause injury.

1. **Make sure the saw blade is tightened**

While pressing the spindle lock, turn the saw blade fixing bolt counterclockwise with the box spanner (standard accessory) to stop the saw blade rotation. Tighten it in that state. (Fig. 14)

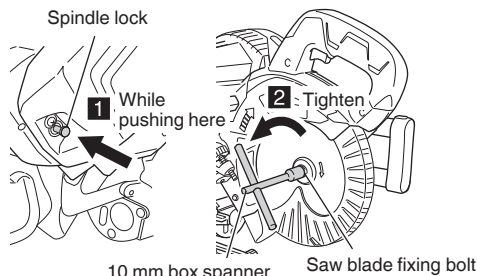


Fig. 14

NOTE

After tightening the saw blade, check that the spindle lock has returned to its original position.

2. Check the face deflection of the saw blade

- Without pressing the spindle lock, use the box spanner (standard accessory) to turn the saw blade fixing bolt counterclockwise as viewed from the spindle end face, and check the face deflection.
- If the face deflection is large, accurate cutting cannot be performed. Also, it may cause vibration.
- If the face deflection is large, check the installation of the saw blade, washer (A), washer (B), and saw blade fixing bolt, referring to "INSTALLATION (REPLACEMENT) OF SAW BLADE" on page 12.

3. Check the movement of the protective cover

- The protective cover prevents the body from touching the saw blade.
- Make sure that the blade moves smoothly so as to cover the saw blade. (Fig. 15)

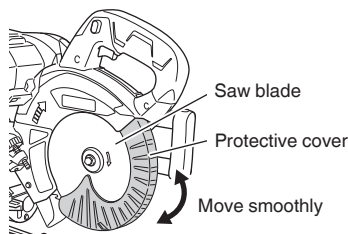


Fig. 15

NOTE

If chips are stuck to the protective cover and the saw blade becomes difficult to see, wipe it off with a cloth.

4. Verify the switch and switch lock movement

- The switch lock protects the device from accidentally starting.
- Pull the switch while pressing the switch lock. After releasing the switch lock, release the switch. Make sure that the switch and switch lock return to their original positions.

5. Install the battery

Push it down firmly in the direction shown in Fig. 16 until it clicks. (Fig. 16)

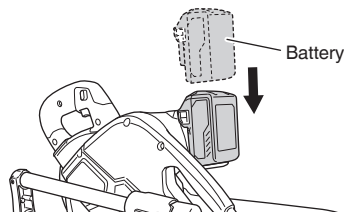


Fig. 16

CAUTION

Pay attention to rebound when the brakes are applied. The head may drop suddenly, causing injury.

6. Make sure the brake engages

- This product is designed so that the brake is applied to the rotation of the saw blade as soon as the switch is turned off.

- Before use, make sure that the brake engages.

7. Remove the battery

While pressing the latches on both sides, slide and pull out. (Fig. 17)

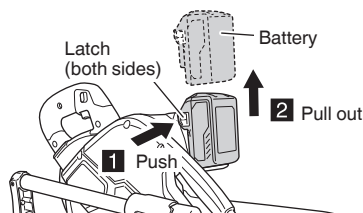


Fig. 17

NOTE

If the spindle lock, switch or switch lock do not return to their original positions; if the protective cover does not move smoothly; or if the brake does not work properly, ask a HiKOKI Authorized Service Center to repair the device.

SWITCH OPERATION**1. Starting and stopping the main unit**

Pull the switch while pressing the switch lock to either side of the arrow to make the saw blade rotate. (Fig. 18)

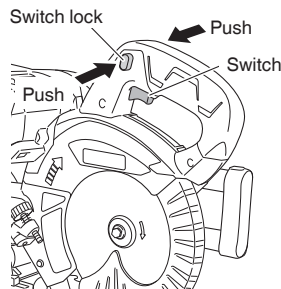


Fig. 18

After the switch is turned on, even if the switch lock is released, the saw blade continues to rotate as long as the switch is pulled.

When the switch is released, the brake is applied to the saw blade rotation and the saw blade stops.

English

2. Turn on/off the LED light and laser marker

WARNING

- The LED light and laser marker light when the battery is installed.
If you pull the switch accidentally, the saw blade will rotate unintentionally, which may cause an accident.
 - Remove the laser marker and do not use it for any other purpose.
 - Press the laser marker switch on the switch panel to turn on the laser line. Press again to turn it off. (Fig. 19)
 - Press the LED light switch to switch the lighting mode of the LED light. (Fig. 19, Table 3)
- Turn off the light as much as possible to prevent draining the battery.

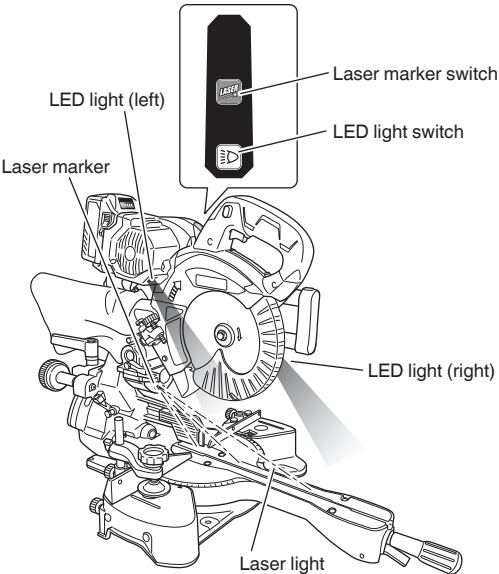


Fig. 19

Table 3

| Lighting mode | Both sides lit | Right lit | Left lit | OFF |
|-------------------|-----------------|-----------------|-----------------|-----|
| LED light (right) | Steady lighting | Steady lighting | Off | Off |
| LED light (left) | Steady lighting | Off | Steady lighting | Off |

CAUTION

- Do not look directly into the laser beam. If the laser beam hits your eyes directly, it can hurt your eyes. Do not disassemble the laser.
- The following labels are affixed to the device in accordance with the laser standards. (Fig. 20)

- Do not apply a strong impact to the laser marker or the product main unit.
- The laser line may become misaligned, the laser marker may be damaged, or the lifetime may be shortened.
- The light lens is hot when the LED light is turned on and immediately after it is turned off. Never touch it.

NOTE

- The LED light and laser marker automatically turn off when no switches are operated for about one hour to prevent drainage of the battery due to forgetting to turn off.
- Only turn on the laser marker when cutting.
- If the laser marker is turned on continuously for a long time, the lifetime may be shortened.
- Superimpose the laser line on the cut line when you cut.
- When the laser line is superimposed on the cut line, the cutting error will be small and stable cutting work can be performed.
- If the laser line is thin and difficult to see due to sunlight when working outdoors or indoors close to a window, work in an area away from direct sunlight.
- When working in a dark indoor environment, if the laser line is strong and dazzling, illuminating it with LED light will make it easier to see.
- Periodically check that the laser line is not out of position.
- Check that the deviation between the cut line and the laser line is less than the cut line width (0.5 mm).

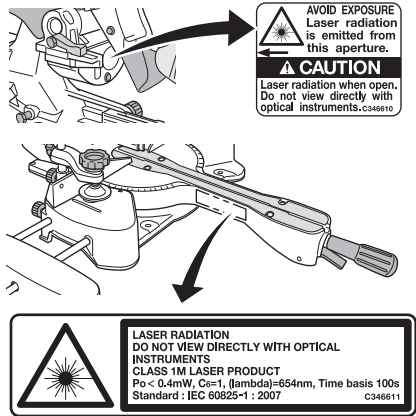


Fig. 20

3. LED light warning signal

This product has functions to protect the tool main unit and the control unit. When one of the protection functions is activated while working, the LED light flashes as shown in **Table 4** while the switch is pulled and for about 3 seconds after the switch is released.

If one of the protection functions is activated, remove your finger from the switch immediately and follow the method for solving the problem.

Table 4

[illegible]

VARIOUS ADJUSTMENT METHODS

WARNING
Be sure to turn off the switch and remove the battery from the tool main unit to prevent the risk of an accident.

Be sure to turn off the switch and remove the battery from the tool main unit to prevent the risk of an accident.

1. Groove of cutting edge plate

Since it is more accurate to make a groove with the saw blade to be used, no groove is made in the cutting edge plate at the factory.

Before use, make a groove in the cutting edge plate as follows.

- (1) Press a material with a height of about 15 mm and a width of about 300 mm against the fence surface and fix it with the vise. **(Fig. 21)**
(Refer to page 21 “HOW TO USE THE VISE ASSEMBLY”)
- (2) Loosen the 6 mm knob bolt and abut the guard against the material to fix it. **(Fig. 21)**

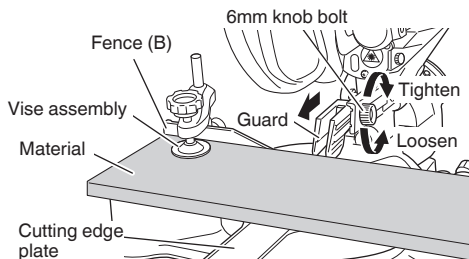


Fig. 21

- (3) Loosen the slide fixing knob.
Slide the head at the upper limit position until it comes to the front and turn on the switch.
After the saw blade rotation is stable, gently push down on the handle and slide it until it touches the back.
While cutting the material, make a groove in the cutting edge plate. (**Fig. 22**)
(Refer to page 22 "3. Cutting wide materials")

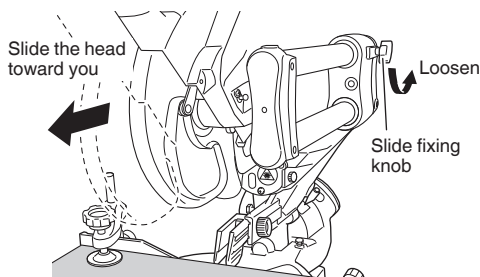


Fig. 22

- (4) Loosen the clamp lever, tilt the saw blade to 45° horizontally, and fix the clamp lever. Insert a groove in the cutting edge plate in the same way as for a right angle. **(Fig. 23)**
(Refer to page 24 "BEVEL CUTTING")

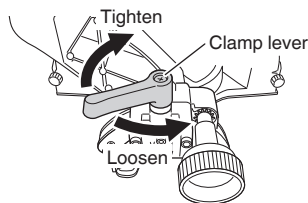


Fig. 23

WARNING

When making a groove in the cutting edge plate, cut slowly.

If you make the groove too quickly, the cutting edge plate may be damaged which may result in injury.

2. Position adjustment of cutting edge plate

WARNING

When cutting material, do not cut off material that is thinner than the gap between the cutting edge plate and the saw blade.

The material may get caught in the saw blade, fly off, and cause injury.

The cutting edge plate prevents cut material from getting caught in the saw blade.

When making thin cuts, adjust the position of the cutting edge plate so that the gap is smaller than the cut width.

- (1) Loosen the 5 mm pan screws (4 pcs.) that fix the cutting edge plate, and temporarily tighten all 5 mm pan screws with the horizontal gap in the cutting edge plate widened. (Fig. 24)

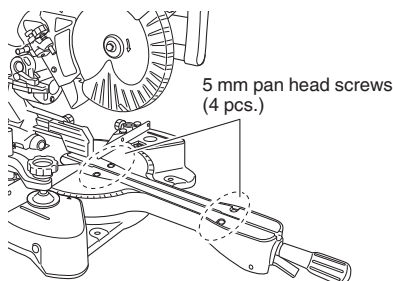


Fig. 24

English

- (2) Fix the material (approx. 200 mm width) with the vise, cut it, align the edge of the cutting edge plate with the cut surface as shown in **Fig. 25-a, b, c**, and fully tighten all the 5 mm pan head screws.

NOTE

The gap between the cutting edge plate is different for bevel cutting and right angle cutting.
Adjust the cutting edge plate according to the type of work.

When adjusting to right angle cutting

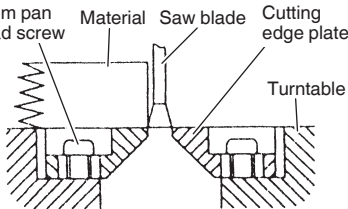


Fig. 25-a

When adjusting to left bevel cutting

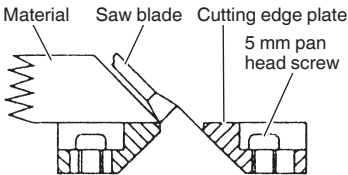


Fig. 25-b

When adjusting to right bevel cutting

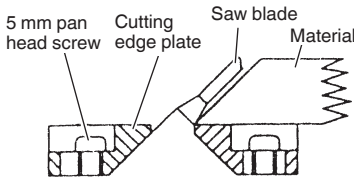


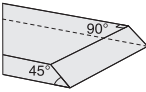
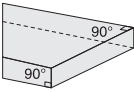
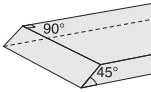
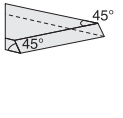
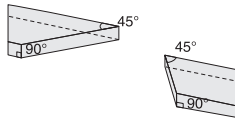
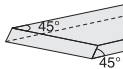
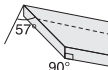

Fig. 25-c

3. Preparation and adjustment for cutting tall materials

When cutting tall materials, normal cutting will leave uncut parts.
Prepare according to the following procedure.

- (1) Prepare an anchor plate referring to **Table 5**.

Table 5

| Saw blade bevel | 45° left bevel | Right angle | 45° right bevel |
|---------------------------------|--|--|---|
| Material height | 41 – 47 mm | 61 – 70 mm | 18 – 24 mm |
| Turntable 0° (right angle) |  Anchor plate width: 25 mm |  Anchor plate width: 25 mm |  Anchor plate width: 25 mm |
| Turntable 45° left and right |  Anchor plate width: 20 mm |  Anchor plate width: 20 mm |  Anchor plate width: 20 mm |
| Turntable Right 57° | — |  Anchor plate width: 15 mm |  Anchor plate width: 20 mm |

- (2) Use the 6 mm holes on the fence surface (two on each side of the left and right fences) to attach the anchor plate with the 5 mm flathead screws and 5 mm nuts. (Fig. 26)

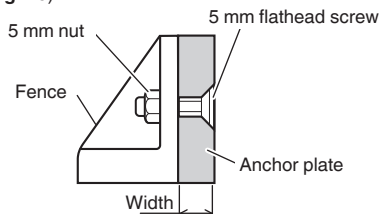


Fig. 26

Adjust the lower limit position using the following procedure so that the bottom of the head does not contact the material.

- (3) Disengage the stopper (B) and turn the stopper holder on the side of the head backward. (Fig. 27)

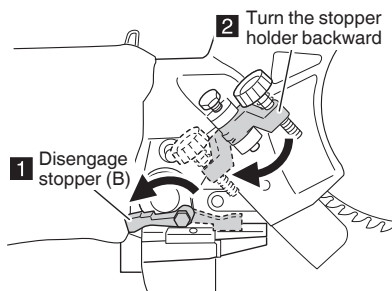


Fig. 27

- (4) Lower the head, and adjust by turning the 6 mm knob bolt for cutting adjustment so that the gap between the bottom of the head and the top surface of the material is 2 – 3 mm at the saw blade lower limit position (where the tip of the 6 mm knob bolt for cutting adjustment and the hinge (A) abut). (Fig. 28)

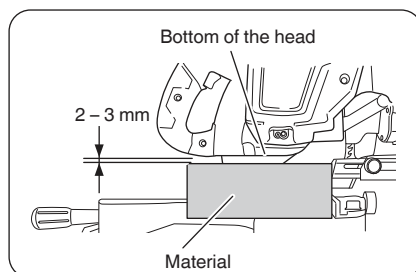
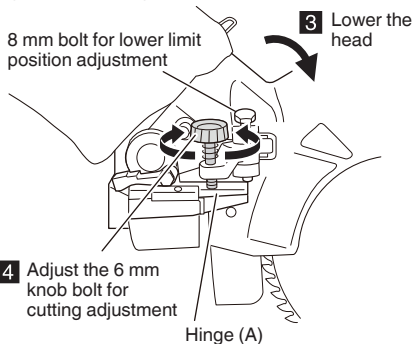


Fig. 28

English

4. Adjustment of the lower limit position of saw blade

WARNING

- Adjust the lower limit position of the saw blade for the 185 mm tip saw [for aluminum sashes (sold separately)] or when the outer diameter of the saw blade becomes smaller after re-grinding of the cutting edge.
- Adjust the lower limit of the saw blade carefully so that the turntable is not cut with the saw blade and so that there is no uncut area.

The saw blade is factory-adjusted so that the cutting edge (lower limit position of the saw blade) stops 10 to 11 mm below the top of the turntable.

Adjust the lower limit position of the saw blade using the following procedure.

- (1) Lower the head and push the tip of the 8 mm bolt for lower limit position adjustment against hinge (A). (Fig. 29)
- (2) Turn the 8 mm bolt for lower limit position adjustment with the 13 mm spanner to adjust the lower limit position of the saw blade. (Fig. 29)
One turn of the bolt changes the position by about 2 mm.

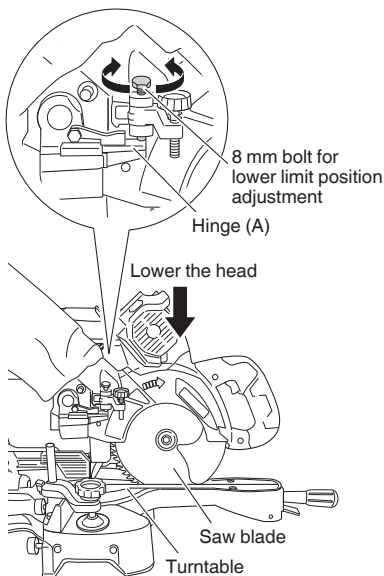


Fig. 29

5. Adjusting the right angle and bevel stop positions

When shipped from the factory, the head is adjusted so that it stops at 0° (right angle), 45° left bevel and 45° right bevel.

While holding down the head, loosen the clamp lever and adjust in the following way.

0° (right angle) stop position (Fig. 30)

Adjust by turning the 8 mm bolt.

45° left bevel stop position (Fig. 30)

Adjust by turning the 6 mm bolt (A).

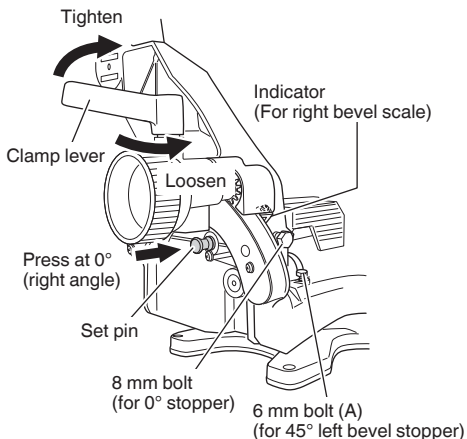


Fig. 30

45° right bevel stop position (Fig. 31)

- (1) Pull out the set pin in the direction of the arrow and tilt the saw to the right.
- (2) Turn the 6 mm bolt (B) to adjust the stop position.
- (3) When the adjustment is completed, set the head to the 0° position and return the set pin to its original position.

NOTE

After checking and adjusting, tighten the clamp lever and fix it.

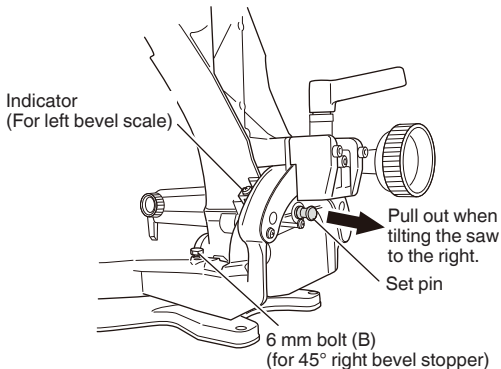


Fig. 31

WARNING

When loosening the clamp lever, be sure to hold down the head.

The head may tilt suddenly, causing injury or damage to the device.

6. Fine adjustment of bevel angle

WARNING

- When adjusting the bevel angle, support the head with your hand as you work. If the clamp lever is not tight enough, the head may move suddenly during angle adjustment, causing injury.
- After adjustment, be sure to fully tighten the clamp lever and check that the head is fixed. If the head cuts on a tilt when not fixed, it may move unexpectedly and cause an injury.

Adjust the head bevel angle fine adjustment mechanism as follows.

- (1) Hold the head handle, position the head at the desired angle, and lightly tighten the clamp lever to temporarily fix it.

At this time, if the clamp lever is not tight enough, the head will move by its own weight. For this reason, support the head with your hand as you work. (Fig. 32)

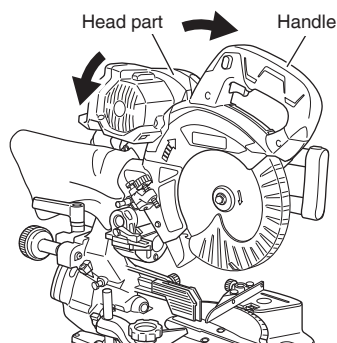


Fig. 32

- (2) Turn the knob (B) while supporting the head to make fine adjustments to the bevel angle. Turn the knob (B) clockwise to adjust the bevel angle of the head to the left, and counterclockwise to adjust it to the right. (Fig. 33)
- (3) After fine adjustment of the bevel angle is completed, fully tighten the clamp lever to fix the head. (Fig. 33)

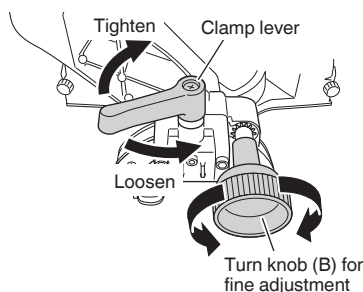


Fig. 33

- (4) For bevel cutting work, refer to page 24 "BEVEL CUTTING."

7. Laser line position adjustment

WARNING

Adjust the position of the laser line with the battery installed.

If you pull the switch accidentally, the saw blade will rotate unintentionally, which may cause an accident.

Using the laser marker makes it easy to align the cut line. The laser line is set within the saw blade width when shipped from the factory. Adjust the position of the saw blade and laser line according to the application using the following procedure.

(Refer to page 22 "1. How to align the cut line")

- (1) Turn on the laser marker, fix the material (height: approx. 20 mm, width: approx. 150 mm) with the vise, and make a groove with a depth of about 5 mm. (Fig. 34, 35, 36)
(Refer to page 25 "1. Making grooves")

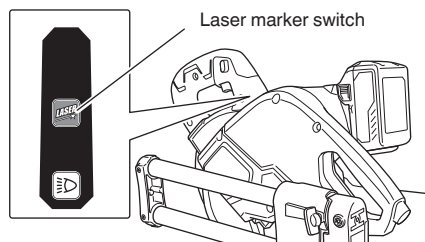


Fig. 34

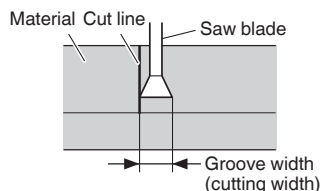


Fig. 35

- (2) Turn the adjuster to move the laser line. When working with the cut line on the left side of the saw blade, align the laser line with the left edge of the groove, and when aligning with the right side of the saw blade, align the laser line with the right side of the groove. (Fig. 36)

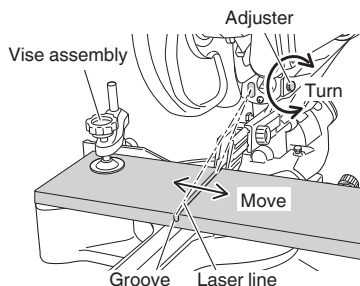


Fig. 36

English

- (3) Draw a cut line at right angles to the material and align it with the laser line. When aligning with the cut line, shift the material little by little and fix it with the vise at the position where the laser line is superimposed on the cut line. (Fig. 37)
Make a groove again and check the position of the laser line.

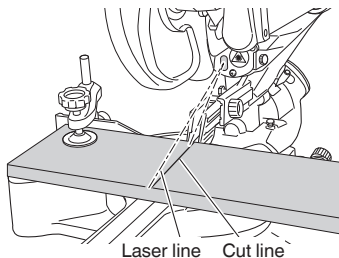


Fig. 37

8. Position adjustment of guard

CAUTION

When the turntable is rotated, the guard may hit the fence. Before turning the turntable, loosen the 6 mm knob bolt in advance and fix the guard so that it does not protrude from the fence surface. (Fig. 38)
Failure to do so may damage the guard.

Fix the guard so that it does not protrude from the fence surface

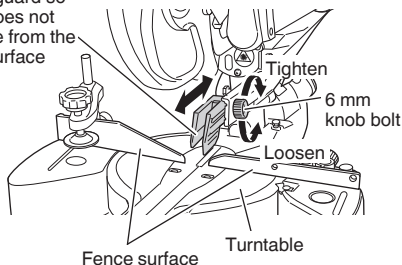


Fig. 38

For right angle cutting and bevel cutting

Loosen the 6 mm knob bolt and lightly abut the guard against the cutting material to fix it. (Fig. 39)

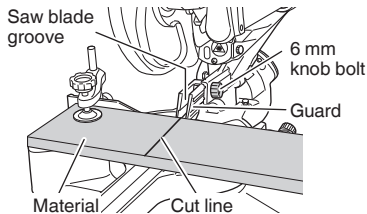


Fig. 39

For angle cutting and compound cutting
(angle cutting + bevel cutting)

Loosen the 6 mm knob bolt, move the guard in the direction of the arrow (rearward), and make sure that it does not protrude from the fence surface. (Fig. 40)

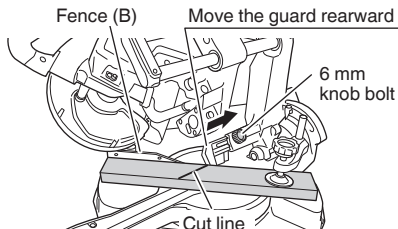


Fig. 40

HOW TO USE THE DUST BAG

NOTE

- In the case of bevel cutting, chips can easily cause clogging and may become clogged in the duct and gear case. Remove any chips from the dust bag promptly.
- When cutting aluminum sashes after processing wood, remove the chips in the dust bag before starting the work.

If the dust bag is full of chips, they will scatter.

Remove the chips from the dust bag before the bag becomes full.

When bevel cutting, adjust the support bar so that the dust bag hangs down vertically as shown in Fig. 41.

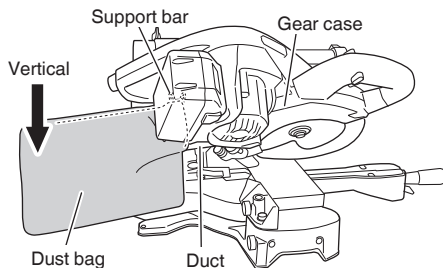


Fig. 41

HOW TO USE THE VISE ASSEMBLY

WARNING

- Do not install or remove materials while the saw blade is rotating.
The material may get caught in the saw blade, fly off, and cause injury.
- Press the material securely against the fence surface and fix it securely with the vise device.
Pressing with your body, such as hands or feet, can cause injury. Also, not only will the cutting accuracy be reduced, but also the machine may be damaged.

NOTE

In the case of bevel cutting, make sure that the head does not touch the vise device when cutting. If there is a possibility of contact, install the vise device on the opposite side to the bevel direction. (Fig. 42)

In the case of left-bevel cutting, the material can be fixed with the vise device installed on the left side for materials from 0 to 35 mm.

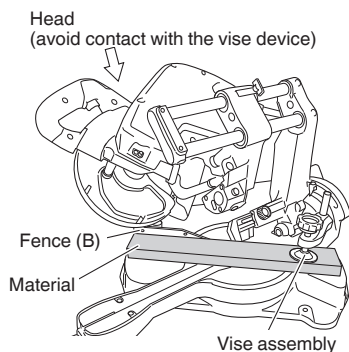


Fig. 42

The vise device can be mounted on the left and right fences.

When mounting the vise device on the fence, if you align the V-groove or groove of the vise shaft with the top surface of the fence, the tip of the 6 mm knob bolt behind the fence will fit into the groove of the vise shaft.

This allows the height of the vise shaft to be adjusted in three stages.

1. Adjust the tip of the 6 mm knob bolt to the groove of the vise shaft, and tighten the 6 mm knob bolt to fix the vise shaft. (Fig. 43)
2. Adjust the position of the screw holder and tighten the 6 mm wing bolt behind the screw holder to secure the screw holder. (Fig. 43)
3. Firmly press the material against the fence surface and turn the knob to secure it. (Fig. 43)

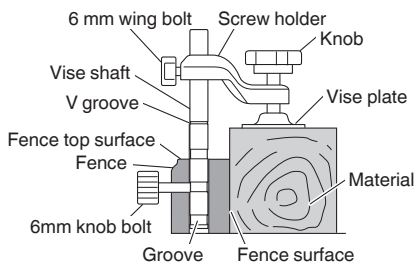


Fig. 43

REMAINING BATTERY INDICATOR

Press the remaining battery indicator switch to turn on the lamp and check the battery remaining level. (Fig. 44, Table 6)

The lamp turns off approximately 3 seconds after pressing the remaining battery indicator switch.

The remaining battery indicator varies slightly depending on the operating environment and battery characteristics, etc., so use it as a guide.

Also, the remaining battery indicator may be different on the product (for products with a remaining battery indicator) and the charger.

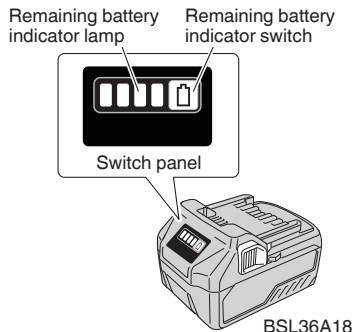


Fig. 44

Table 6

| Lamp lighting status | | Remaining battery |
|----------------------|-----------------|---|
| | Steady lighting | 75% or more |
| | | 50% to less than 75% |
| | | 25% to less than 50% |
| | | Less than 25% |
| | Flashing | 0% |
| | | Output stopped due to high temperature *1 |
| | | Output stopped due to failure *2 |

*1: Remove the battery from the tool main unit and cool it down sufficiently.

*2: The battery may be faulty. Consult a HiKOKI Authorized Service Center.

BASICS OF CUTTING WORK

WARNING

- After each cut or notch, turn off the switch, check that the saw blade has stopped, lift the handle, and return it to its original position.
If you lift the handle while the saw blade is rotating after cutting, a strong repulsive force will be generated. If the cut-off side is thin, the cut-off material may get caught in the saw blade and fly off.
- Be sure to remove any cut-off material from the top of the turntable before performing the next setup.
- If you cut continuously, the motor will be overloaded. If you feel that the motor is hot when you touch it, stop cutting for about 10 minutes.
- To prevent accidents, be sure to turn off the switch and unplug the power plug from the outlet when you take a break from work and after you have finished working.
- Do not touch the side handle during cutting. Also, keep your hands and face away from the rotating saw blade.
- Do not touch the switch during transportation.
The motor may start up unexpectedly and cause an accident.

NOTE

- When cutting a notch, the machine will not cut more quickly even if you apply strong force to the handle. Excessive force may overload the motor and cause a failure.
- Do not push down on the handle strongly or apply force in the left or right directions.
The cutting accuracy may be degraded. For example, the saw blade may oscillate and saw marks (streaks from the saw blade) may appear at the transition from push cutting to slide cutting.
- The cutting accuracy is adjusted upon shipping, but any shocks during transportation or cutting may cause misalignment.
If the cutting accuracy becomes misaligned, it will need to be inspected, adjusted, and repaired. Please consult a HIKOKI Authorized Service Center in this case.
Also, before starting work, make a test cut to check the cutting accuracy.

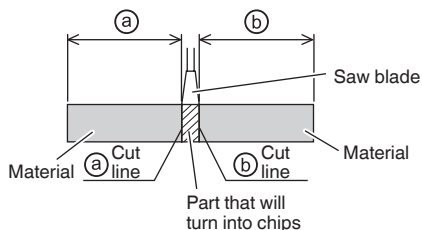
1. How to align the cut line (Fig. 45)

When cutting the material, the thickness equivalent to the saw blade will turn into chips. So if you require a length of ①, align the cut line with the left side of the saw blade.

When using the laser marker, align the laser line with the left side of the saw blade, and then align the cut line with the laser line.

If you require a length of ②, adjust it to the right side.

For more information about the alignment of the saw blade and the laser line, refer to page 19 "7. Laser line position adjustment."



(Figure when viewed from the front)

Fig. 45

2. Push cutting

Push cutting can cut materials up to a height of 61 mm and a width of 89 mm.

- (1) Abut the hinge (A) on the holder (A) and tighten the slide fixing wing bolt. (Fig. 46)

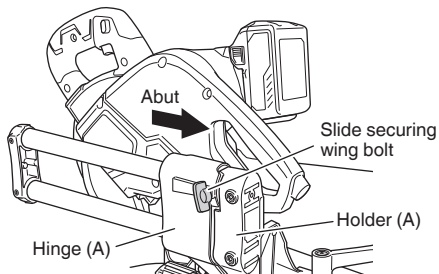


Fig. 46

- (2) Turn on the switch, and after the saw blade rotation has stabilized, gently push down the handle to bring it closer to the material. (Fig. 47)

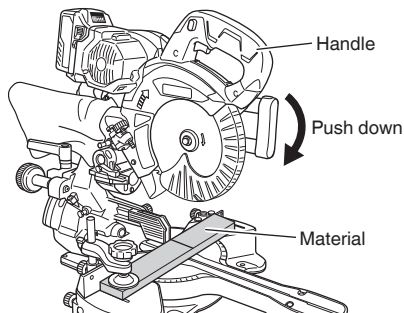


Fig. 47

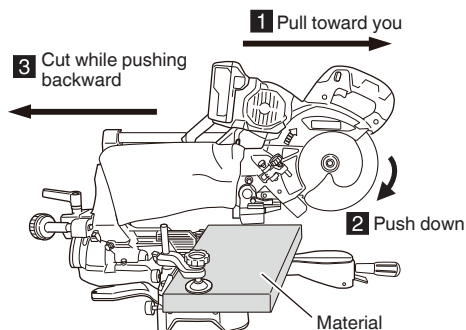
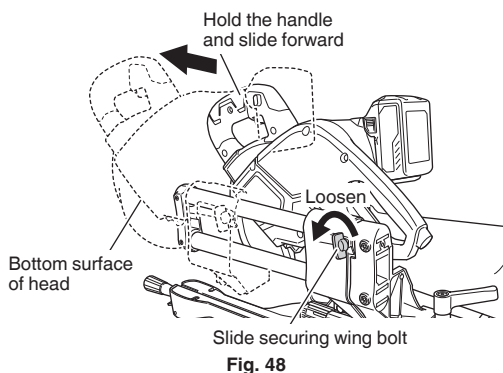
- (3) When the saw blade comes into contact with the material, gradually push down the handle to deepen and finish the cut.
- (4) When you have finished cutting, turn off the switch and lift the handle after the saw blade has completely stopped moving.

3. Cutting wide materials (slide cutting)

NOTE

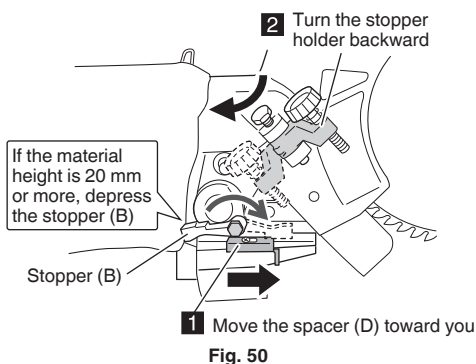
- When cutting materials with a height of 61 to 70 mm, adjust the machine so that there is a gap of 2 to 3 mm between the bottom surface of the head and the top surface of the material when the saw blade is at the lower limit position. (Refer to page 16 "3. Preparation and adjustment for cutting tall materials")
- If you push down on the handle strongly or apply force in the left or right directions, cutting accuracy may deteriorate. The saw blade may oscillate, and saw marks (streaks from the saw blade) may appear at the transition from push cutting to slide cutting. Push down on the handle gently.
- When slide cutting, push backwards gently without stopping partway through. If you stop partway, saw marks (streaks from the saw blade) will appear on the cut surface.
- When cutting materials with a height of 61 mm and a width of 240 mm or more, the dust collection rate will decrease due to the structure of the machine.

- (1) Loosen the slide fixing wing bolt, hold the handle, and slide the head toward you. (Fig. 48, 49)
- (2) Push down on the handle to lower the saw blade to the lower limit position. (Fig. 49)
- (3) Press and slide backward to cut. (Fig. 49)

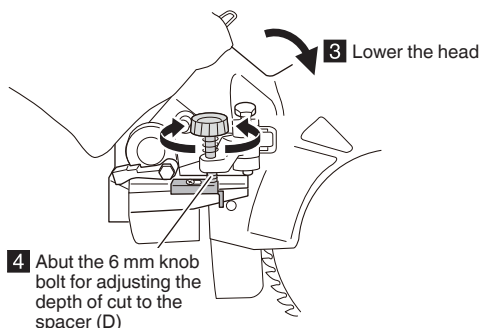


When slide cutting, the use of a spacer (D) can reduce the fuzz on the material surface. Follow the procedure below to use the spacer (D):

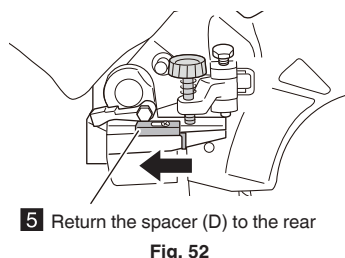
- (1) Move the spacer (D) toward you and turn the stopper holder backward. (Fig. 50)



- (2) Lower the head part, and turn the 6 mm knob bolt for adjusting the depth of cut so that its tip abuts with the spacer (D) at the position where the saw blade edge just touches the material that has been set. (Fig. 51)



- (3) Return the spacer (D) to the rear and slide cut to make a groove of about 2 mm. By following this procedure, the fuzz on the upper surface of the material can be reduced. (Fig. 52)



- (4) The material can be cut by returning the stopper holder to the front and performing slide cutting again.

If the height of the material is 20 mm or more, tilt the stopper (B) forward, make a groove in the same way as steps 1 to 4, return the stopper holder and stopper (B), and perform slide cutting. By following this procedure, it is possible to cut tall materials.

To use the stopper (B), tilt it forward and turn the stopper holder backward.

BEVEL CUTTING

Cut at any angle between 0 and 45° on either side

WARNING

- If the material is fixed on the left and left-bevel cut, or if it is fixed on the right and right-bevel cut, the cut-off material will be on top of the saw blade. After the saw blade has stopped completely, lift the handle and return it to its original position. If you lift the handle while the saw blade is rotating, the material on the cut-off side may get caught in the saw blade and fly off, causing an injury.
- If bevel cutting is interrupted partway through, be sure to return (slide) the head to the original cutting position and then start cutting again. If you start cutting from the partway position, the protective cover may enter the cut saw blade groove and deform, causing contact with the saw blade and leading to injury.
- When loosening the clamp lever, be sure to hold down the head.

NOTE

When cutting materials with a height of 41 to 47 mm at a 45° left bevel or a height of 18 to 24 mm at a 45° right bevel, adjust so that there is a gap of 2 to 3 mm between the bottom surface of the head and the top surface of the material when the saw blade is at the lower limit position. (Refer to page 16 "3. Preparation and adjustment for cutting tall materials")

1. Loosen the clamp lever while holding down the head, and tilt the head to the left or right. When tilting to the right, pull the set pin in the direction of the arrow as shown in **Fig. 53**.

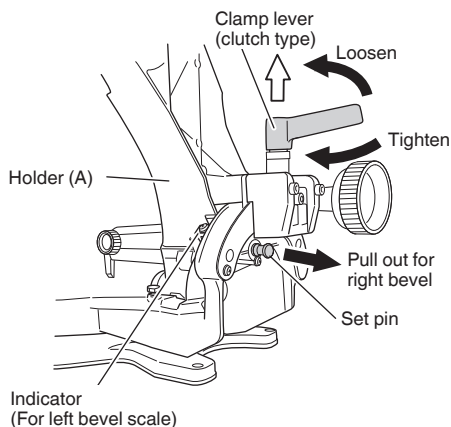


Fig. 53

The clamp lever is a clutch type. If the clamp lever touches the workbench or machine, pull it upward and change its direction.

2. Align the indicator (for left bevel scale) to the desired bevel angle using the bevel scale. Then tighten the clamp lever to fix the holder (A). (**Fig. 53**)
3. For cutting work, see page 22 "BASICS OF CUTTING WORK."

ANGLE CUTTING

Rotate the turntable to cut at angles of up to 45° on the left and 57° on the right

WARNING

After adjusting the turntable angle, tighten the side handle securely. The turntable may move during operation, causing an injury.

CAUTION

For angle cutting, move the guard backward. The guard and fence will come into contact with each other, resulting in poor cutting accuracy, and the guard will also be damaged.

By rotating the turntable, you can cut at angles of up to 45° on the left and 57° on the right

There are angle stoppers at 0° and 15°, 22.5°, 30°, and 45° left and right with respect to the turntable.

1. Loosen the side handle, pull up the lever to release the angle stopper, and rotate the turntable to align the indicator (for the angle scale) to the angle scale (number of degrees scale). At angles where there is an angle stopper, the stopper operates and stops the head stably even when you release the lever.
2. After setting the desired angle, tighten the side handle to firmly secure the turntable.
3. For cutting work, see page 22 "BASICS OF CUTTING WORK."

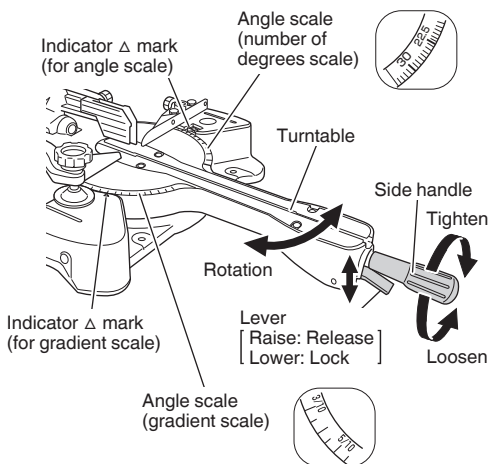


Fig. 54

VARIOUS TYPES OF CUTTING

1. Making grooves

NOTE

Depending on the type of material, uncut parts may be produced around the material. Remove them with a chisel, etc.

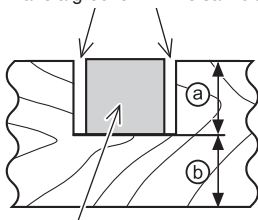
By adjusting the lower limit position so that the saw blade stops at the desired depth ㉓, the groove shown in Fig. 55 can be formed.

After forming the groove with the saw blade, remove the shaded area with a chisel, etc.

To form the groove ㉔, it is necessary to adjust the lower limit position of the saw blade to the distance ㉕ from the top surface of the turntable to the saw blade.

Follow the procedure below to adjust the lower limit position of the saw blade.

Make a groove with the saw blade



Remove with a chisel, etc.

Fig. 55

- (1) Turn the stopper holder on the side of the head backward. (Fig. 56)

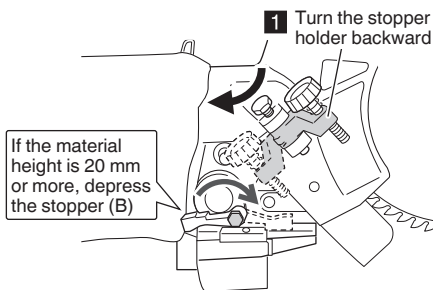


Fig. 56

- (2) With the tip of the 6 mm knob bolt for adjusting the depth of cut abutting hinge (A), turn the knob bolt to adjust the lower limit position of the saw blade to distance ㉕. (Fig. 57)

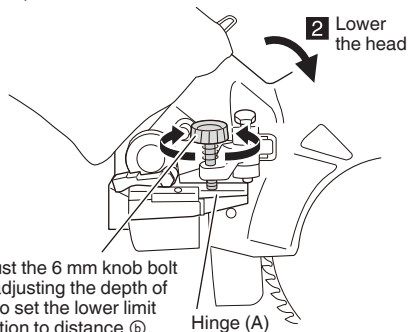


Fig. 57

- (3) If the height of ㉕ is 20 mm or more, you can tilt the stopper (B) forward and abut the tip of the 6 mm knob bolt for adjusting the depth of cut against the stopper (B) to adjust it up to 60 mm. (Fig. 56)

NOTE

To use the stopper (B), tilt it forward and turn the stopper holder backward.

2. Cutting materials that can easily deform such as aluminum sashes

WARNING

- Fix the material securely with the vise device.
If the material is not fixed properly, it will deform and the saw blade will become caught, causing the material to fly off and cause injury.
- When using cutting oil (spindle oil), make sure that there are no open flames in the area.

NOTE

- When cutting an aluminum sash, apply cutting oil (spindle oil) to the cutting edge of the saw blade to obtain a clean surface easily.
- When cutting aluminum sashes after processing wood, remove the chips in the dust bag before starting the work.

Thin materials such as aluminum sashes are easily deformed, so if they are tightened with the vise device without using an anchor plate, they will be deformed, placing an excessive burden on the motor.

In addition, the material may rattle unexpectedly during cutting, and an impact force may be applied to the saw blade.

English

For easily deformable materials

Use an anchor plate as shown in **Fig. 58**, wedge it in place near the part of the material to be cut, and tighten with the vise device.

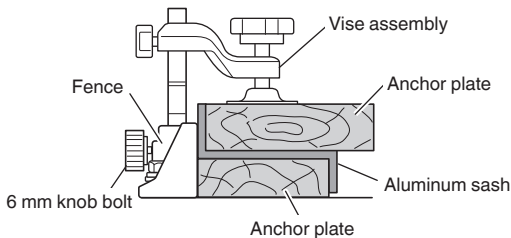


Fig. 58

For U-shaped materials

Ensure that the material is fixed securely in the horizontal direction. Use an anchor plate as shown in **Fig. 59**, wedge it in place near the part of the material to be cut, and tighten with the vise device and a commercially-available clamp.

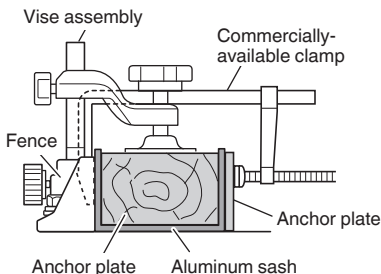


Fig. 59

MAINTENANCE AND INSPECTION

WARNING

For maintenance and inspection, be sure to turn off the main unit, laser marker, and LED light, and remove the battery from the tool main unit.

1. Machine inspection

Inspect the attachment of each component regularly for rattling or looseness.

Using the machine with loose components may cause an accident such as personal injury.

If something is wrong, consult a HiKOKI Authorized Service Center.

2. Saw blade inspection

Using a blunt saw blade will overload the motor and reduce work efficiency.

Sharpen it as soon as possible or replace it with a new one.

WARNING

Do not use a blunt saw blade.

If you use an inappropriate saw blade, the reaction force at the time of cutting will increase and it may cause an injury.

3. Handling of the motor

Be careful not to allow oil or water to enter the motor (built-in) (see "NAMES OF PARTS" on page 6).

NOTE

In order to remove dirt and dust, after about 50 hours of use, run the motor under no load and blow dry air through the air vent at the rear of the motor. Dirt and dust accumulated inside the motor may cause a failure.

4. Maintenance and inspection of protective cover movement

Always ensure that the protective cover moves smoothly. (**Fig. 60**)

NOTE

If it does not move smoothly, contact a HiKOKI Authorized Service Center for repair.

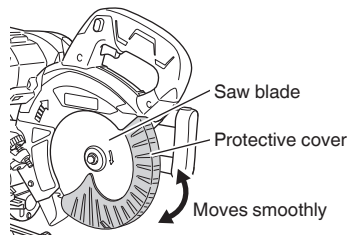


Fig. 60

5. Inspection of terminals (tool main unit, battery)

Inspect the terminals for chips and dust.

Inspect before and after work and sometimes during work.

CAUTION

If chips and dust have accumulated on the terminals, remove them.

Using the machine with accumulated chips and dust may cause a failure.

6. Lubrication

Lubricate the lubrication points once a month to extend the life of the machine. (Machine oil is suitable.)

[Lubrication points] (**Fig. 61**)

- Rotating part and sliding part (slide pipe) of hinge (A)
- Screw part of vise device
- Rotating part and sliding part of holder (A)

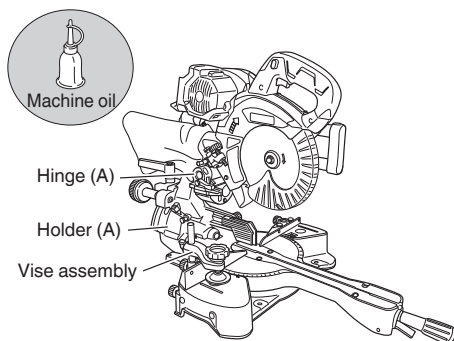


Fig. 61

7. Cleaning

If the machine becomes dirty, carefully wipe it down with a cloth soaked in soapy water and wrung out.
If the laser line becomes difficult to see due to chips or other debris on the laser marker window, wipe the window with a dry cloth or soapy water.
Do not use gasoline, thinner, benzene or kerosene as they will dissolve the plastic. Do not allow the motor to become wet with water or oil.

8. Transporting the machine

WARNING

When transporting the machine, remove the sub table holder and sub table assembly.
If they fall out from the machine, they may cause injury.

CAUTION

Be sure to turn off the switch and remove the battery from the tool main unit when transporting the machine.

The vise device may fall during transportation. Remove it or secure it by clamping a piece of wood.
Lower the head and insert the locking pin.
At the position where hinge (A) abuts with holder (A), tighten the slide fixing wing bolt to fix the head. (Fig. 62)

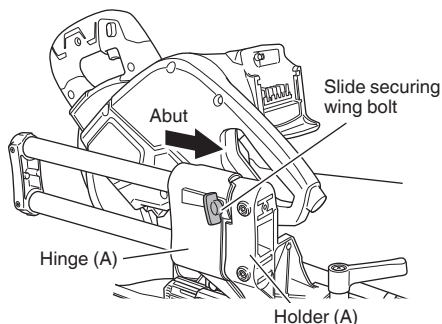


Fig. 62

To fix the turntable, turn the side handle to loosen it, rotate the turntable as far as it will go to the right, and turn the handle to the fix it. This makes the machine more compact. (Fig. 63)

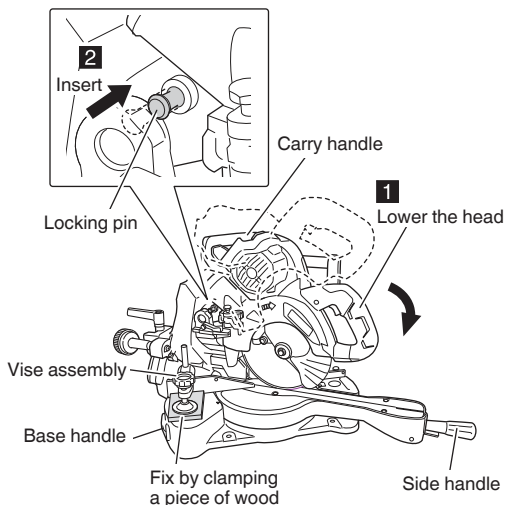


Fig. 63

Next, carry the machine, holding the carry handle with one hand and the handle on the left side of the base in your other hand for support.

9. Storage after work

When out of use, store the machine and accessories in a safe and dry place, and avoid storing them in the following places.

NOTE

- Places where children can reach the machine or accessories and take them out
- Places where they may be exposed to rain such as eaves or humid places
- Places where the temperature changes suddenly or that are exposed to direct sunlight
- Places with volatile substances that may catch fire or explode

Storing in a place below 40°C and out of the reach of children.

NOTE

Storing lithium-ion batteries.

Make sure the lithium-ion batteries have been fully charged before storing them.

Prolonged storage (3 months or more) of batteries with a low charge may result in performance deterioration, significantly reducing battery usage time or rendering the batteries incapable of holding a charge.

However, significantly reduced battery usage time may be recovered by repeatedly charging and using the batteries two to five times.

If the battery usage time is extremely short despite repeated charging and use, consider the batteries dead and purchase new batteries.

CAUTION

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

Important notice on the batteries for the HiKOKI cordless power tools

Please always use one of our designated genuine batteries. We cannot guarantee the safety and performance of our cordless power tool when used with batteries other than these designated by us, or when the battery is disassembled and modified (such as disassembly and replacement of cells or other internal parts).

NOTE

Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.

TROUBLESHOOTING

If the troubleshooting measures do not help, consult a HiKOKI Authorized Service Center.

Also, the battery may be the cause, so please also bring the charger and battery to a HiKOKI Authorized Service Center.

1. Tool main unit

| Symptom | Possible cause | Remedy |
|---------------------------------|--|--|
| The machine does not operate | Low battery | Charge the battery. |
| | The battery is not securely installed | Push the battery down until it clicks. |
| The machine suddenly stopped | Overload | Remove the cause of the heavy load. |
| | The battery or main unit has overheated | Allow the battery or main unit to cool down. |
| Cannot tilt the head | The clamp lever has not been loosened | Loosen the clamp lever before tilting the head. Adjust the loosened parts then tighten them. |
| Cannot tilt to the right | Set pin (A) has not been pulled out | Pull out set pin (A) and tilt the head to the right. |
| | The clamp lever has not been loosened | Loosen the clamp lever before tilting the head. |
| The saw blade does not cut well | Worn or chipped saw blade | Replace with a new saw blade. |
| | The bolt is loose | Tighten the bolt securely. |
| | The saw blade is installed in reverse | Install the saw blade in the correct direction. |
| Cannot cut accurately | Insufficient fixing of main unit operating parts | Tighten the clamp lever and side handle securely. |
| | The material is not fixed in the correct place | Remove any foreign matter on the fence/turntable. |
| | | If the material is warped, it may not be possible to fix it in the correct position. Fix the flat surface to the fence/turntable. |
| Cannot pull out the switch | The switch lock has not been pushed in sufficiently | Push the switch lock in as far as it will go. |
| Cannot install the battery | Attempting to install a battery other than specified model | Use a multi-volt type battery. |

2. Charger

| Symptom | Possible cause | Remedy |
|---|---|---|
| The charge indicator lamp is rapidly flickers purple, and battery charging doesn't begin. | The battery is not inserted all the way. | Insert the battery firmly. |
| | There is foreign matter in the battery terminal or where the battery is attached. | Remove the foreign matter. |
| The charge indicator lamp blinks red, and battery charging doesn't begin. | The battery is not inserted all the way. | Insert the battery firmly. |
| | The battery is overheated. | If left alone, the battery will automatically begin charging if its temperature decreases, but this may reduce battery life. It is recommended that the battery be cooled in a well-ventilated location away from direct sunlight before charging it. |
| Battery usage time is short even though the battery is fully charged. | The battery's life is depleted. | Replace the battery with a new one. |
| The battery takes a long time to charge. | The temperature of the battery, the charger, or the surrounding environment is extremely low. | Charge the battery indoors or in another warmer environment. |
| | The charger's vents are blocked, causing its internal components to overheat. | Avoid blocking the vents. |
| | The cooling fan is not running. | Contact a HiKOKI Authorized Service Center for repairs. |

一般安全規則

⚠ 警告

閱讀本電動工具提供的所有安全警告、指示、說明和規範。

未遵守下列之說明可能導致觸電、火災及 / 或嚴重傷害。

請妥善保存所有警告與說明，以供未來參考之用。

「電動工具」一詞在警告中，係指電源操作（有線）之電動工具或電池操作（無線）之電動工具。

1) 工作場所安全

- 保持工作場所清潔及明亮。
雜亂或昏暗的區域容易發生意外。
- 勿在易產生爆炸之環境中操作，譬如有易燃液體、瓦斯或粉塵存在之處。
電動工具產生火花會引燃粉塵或煙氣。
- 當操作電動工具時，保持兒童及過往人員遠離。
分神會讓你失去控制。

2) 電氣安全

- 電動工具插頭必須與插座配合，絕不可以任何方法修改插頭，且不得使用任何轉接插頭於有接地之電動工具。
不修改插頭及所結合之插座可減少電擊。
- 避免身體接觸到接地面諸如管子、散熱器、爐灶及冰箱。
如果你的身體接地或搭地，會增加電擊的危險。
- 勿讓電動工具淋雨或曝露在潮濕的環境下。
電動工具進水會增加電擊的危險。
- 勿濫用電源線。絕勿使用電源線去纏繞、拖拉電動工具或拔插頭，保持電源線遠離熱氣、油氣、尖角或可動零件。
損壞或纏繞的電源線會增加電擊之危險。
- 電動工具在室外操作時要使用一適合室外用的延長線。
使用合適之室外用延長線會減少電擊的危險。
- 若無法避免在潮濕地區操作電動工具，請使用以殘餘電流裝置 (RCD) 保護的電源。
使用 RCD 可降低觸電危險。

3) 人員安全

- 保持機警，注意你正在做什麼，並運用普通常識操作電動工具。
當你感到疲勞或受藥品、酒精或醫療影響時，勿操作電動工具。
操作中瞬間的不注意可能造成人員嚴重的傷害。

- 使用個人防護裝備，經常配戴安全眼鏡。
配戴防塵口罩、防滑安全鞋、硬帽等防護裝備，或在適當情況下使用聽覺防護，可減少人員傷害。
 - 防止意外啟動。在連接電源及 / 或電池組、拿起或攜帶工具前，請確認開關是在「off」（關閉）的位置。
以手指放在開關握持電動工具，或在電動工具的開關於“on”的狀況下插上插頭，都會導致意外發生。
 - 在將電動工具啟動前，先卸下任何調整用鑰匙或扳手。
扳手或鑰匙遺留在電動工具的轉動部位時，可能導致人員傷害。
 - 身體勿過度伸張，任何時間要保持站穩及平衡。
以便在不預期的狀態下，能對電動工具有較好的控制。
 - 衣著要合宜，別穿太鬆的衣服或戴首飾。
保持您的頭髮、衣服遠離轉動部位。
寬鬆的衣服、手飾及長髮會被捲入轉動部位。
 - 如果裝置要用於粉塵抽取及集塵設施，要確保其連接及正當使用。
使用集塵裝置可減少與灰塵相關的危險。
 - 請勿因頻繁使用本工具，熟悉操作而忽略本工具的安全原則。
粗心的行動有可能瞬間即造成嚴重傷害。
- #### 4) 電動工具之使用及注意事項
- 勿強力使用電動工具，使用正確之電動工具為你所需。
正確使用電動工具會依其設計條件使工作做得更好更安全。
 - 如果開關不能轉至開及關的位置，勿使用電動工具。
任何電動工具不能被開關所控制是危險的，必須要修理。
 - 在進行任何調整、更換配件或收存電動工具之前，請斷開插頭與電源的连接，且 / 或將電池從電動工具中取出（如果電池為可拆卸式）。
此種預防安全措施可減少意外開啟電動機之危險。
 - 收存停用之電動工具，遠離兒童，且不容許不熟悉電動工具或未瞭解操作電動工具說明書的人操作電動工具。
在未受過訓練的人手裡，電動工具極為危險。
 - 保養電動工具和配件。檢核是否有可動零件錯誤的結合或卡住、零件破裂及可能影響電動工具操作的任何其他情形。電動工具如果損壞，在使用前要修好。
許多意外皆肇因於不良的保養。

- f) 保持切割工具銳利清潔。
適當的保養切割工具，保持銳利之切削鋒口，可減少卡住並容易控制。
- g) 按照說明書使用電動工具、配件及刀具時，必須考量工作條件及所執行之工作。
若未依照這些使用說明操作電動工具時，可能造成相關之危害情況。
- h) 保持把手和握持面乾燥、清潔，且未沾到油脂和潤滑油。
滑溜的把手和握持面在操作時會有安全上的問題，且可能造成本工具意外失去控制。

5) 電池式工具的使用及注意事項

- a) 需再充電時，僅能使用製造商指定的充電器。
因充電器僅適合同一型式的電池組，若使用任何其它電池組時，將導致起火的危險。
- b) 使用電動工具時，僅能使用按照其特性設計的電池組。
因使用其它任何電池組時，將導致人員傷害及起火的危險。
- c) 當電池組不在使用時，需保存遠離其它的金屬物件，例如：迴紋針、錢幣、鑰匙、圖釘、螺釘，或類似能造成端子與端子間連接的其它較小金屬物件。
因電池組端子間短路時，將導致燃燒或起火的危險。
- d) 在誤用情況下，電解液可能自電池中噴出；請避免接觸。當發生意外接觸時，請用清水沖洗。若電解液觸及眼睛時，請儘速尋求醫療協助。
因自電池中噴出的電解液，將導致灼傷或刺激皮膚。
- e) 請勿使用損壞或改造的電池組或工具。
損壞或改造的電池可能會發生不可預知的行為，進而導致火災、爆炸或受傷的風險。
- f) 請勿使電池組或工具接觸到火源或處於溫度過高的地方。
接觸火源或溫度超過 130°C 可能會引起爆炸。
- g) 請遵循所有充電指示，並且不要在說明書指定的溫度範圍之外為電池組或工具充電。
充電不當或溫度超出指定範圍可能會損壞電池並增加火災的風險。

6) 維修

- a) 讓你的電動工具由合格修理人員僅使用相同的維修零件更換。
如此可確保電動工具的安全得以維持。
- b) 切勿對損壞的電池組進行維修。
電池組的維修只能由製造商或授權服務商進行。

注意事項

不可讓孩童和體弱人士靠近工作場所。
應將不使用的工具存放在孩童和體弱人士伸手不及的地方。

斜鋸機安全說明

- a) 斜鋸機用於切割木材或類似木材的產品，不可與研磨切割砂輪一起用於切割如棒材、桿材、飾釘等的含鐵材料。
磨蝕性粉塵會導致下部安全罩等可動零件卡住。研磨切割產生的火花會燒壞下護罩、切口插件和其他塑料零件。
- b) 盡可能使用夾具支撐工件。如果用手支撐工件，則必須始終將手放在距離鋸片兩側至少 100 mm 處。請勿使用此斜鋸機切割太小而無法用手夾緊或握住的碎片。
如果您的手放得離鋸片太近，刀片接觸會增加受傷的風險。
- c) 工件必須固定不動，並且靠在擋板和工作台上夾緊或握住。不要以任何方式將工件送入刀片或「徒手」切割。
未被固定或移動的工件可能會以高速被拋出而造成受傷。
- d) 將鋸機推過工件。不要將鋸機拉過工件。要進行切割時，請抬起鋸頭並將其拉出工件而不進行切割，啟動馬達，向下按壓鋸頭並將鋸機推過工件。在拉動行程上切割可能會導致鋸片爬上工件頂部並猛烈地將刀片組件拋向操作人員。
- e) 切勿將手伸過鋸片前方或後方的預定切割線。
「手交叉」支撐工件，也就是用左手將工件握在鋸片的右側（反之亦然）是非常危險的。
- f) 當鋸片正在旋轉時，不要在距離鋸片兩側 100 mm 以內的範圍為了移除木屑或出於任何其他原因而觸及擋板後面。
旋轉中的鋸片與手的接近可能並不明顯，而您可能會受重傷。
- g) 切割前請檢查工件。如果工件彎曲或翹曲，則將外側彎曲面朝向擋板夾住。始終確保工件、擋板和沿著切割線的工作台之間沒有縫隙。
彎曲或翹曲的工件可能會扭曲或移位，並且可能在切割時導致瓷磚旋轉鋸片上卡住。工件上不應有釘子或異物。
- h) 除非工作台上除了工件以外，沒有其他任何工具、木屑等，否則不要使用鋸機。
小碎片或未被固定的木片或與旋轉中的鋸片接觸的其他物體可能會被高速拋出。
- i) 一次只切割一個工件。
堆疊的多個工件不能被充分地夾緊或支撐，並且可能在切割過程中卡在鋸片上或移位。

- j) 使用前確保斜鋸機安裝或放置在水平堅固的工件表面上。
水平和堅固的工作表面降低了斜鋸機變得不穩定的風險。
- k) 計劃作業。每次更改斜角或斜接角度設定時，請確保可調節擋板設定正確以支撐工件，並且不會干擾鋸片或防護系統。
在不「開啟」工具且工作台上沒有工件的狀態下，將鋸片移動通過完整的模擬切割，以確保不會有干擾或切割擋板的危險。
- l) 為比桌面更寬或更長的工件提供足夠的支撐，例如工作台延伸裝置、鋸馬等。
如果沒有牢固地支撐，比斜鋸機工作台更長或更寬的工件可能會翻倒。如果切割件或工件翻倒，可能會抬起下部安全罩或被旋轉中的刀片拋出。
- m) 不要使用其他人代替工作台延伸裝置或作為額外的支撐。
在切割操作過程中，對工件的不穩定支撐會導致刀片卡住或工件移位，將您和輔助人員拉入旋轉中的刀片。
- n) 切割件不得用任何方法卡住或壓在旋轉中的鋸片上。
如果切割件被侷限住，也就是使用長度停止，則切割件可能會楔入刀片並猛烈地拋出。
- o) 始終使用設計用於正確支撐圓形材料（如桿材或管材）的夾具或固定裝置。
桿材在切割時容易滾動，而導致刀片「咬住」並將您的手和工件拉入刀片。
- p) 在接觸工件之前讓刀片達到全速。
這將降低工件被拋出的風險。
- q) 如果工件或刀片卡住，請關閉斜鋸機。等待所有移動中的零件停止，並斷開插頭與電源的連接和 / 或取出電池組。然後釋放卡住的材料。
繼續鋸切卡住的工件可能會導致斜鋸機失控或損壞。
- r) 完成切割後，鬆開開關，按住鋸頭並等待刀片停止，然後取下切割件。
用手靠近滑行中的刀片很危險。
- s) 在鋸頭完全處於向下位置之前，在進行不完全切割或鬆開開關時，請牢牢握住手柄。
鋸機的止動作用可能會造成鋸頭突然被向下拉，進而導致受傷的風險。
4. 維修僅能由有資格的維修人員進行。製造廠商對因非專業維修人員進行維修及使用不當而造成的損壞和損傷概不負責。
5. 為了保證設計的完整性，電動工具的蓋罩和螺釘類不可隨便拆除。
6. 除非電線插頭已從電源插座拆下，絕不可接觸轉動部分或附件。
7. 應以低於銘牌上的額定輸入功率進行作業。否則電動機將過載而影響工作精度，並降低效率。
8. 不可使用溶劑擦拭塑料零件。因為：汽油、沖淡劑、輕質汽油、四氯化碳、酒精等都會使塑料損傷或發生龜裂，所以應避免使用。擦拭塑料製品，可以使用稍微沾濕了肥皂水的柔布。
9. 只能使用 HiKOKI 指定的更換零件。
10. 本使用說明書中的組裝分解圖僅用於經授權的維修店。
11. 切勿切割鐵金屬或磚瓦材料。
12. 提供充足的總體或局部照明。原料與成品工件應位於操作員的正常工作位置附近。
13. 必要時應使用適當的個人保護設備，可包括：
聽力保護，以減少聽力受損的風險。
眼部保護，以減少眼睛受傷的風險。
呼吸保護，以減少吸入有害灰塵的風險。
手套，用於操作鋸條（移動鋸條時應盡可能把鋸條放在支架中）以及粗糙材料。
14. 操作員應接受機器使用、調節與操作方面的充分培訓。
15. 在機器運行且鋸頭未處於停止位置時，不得從切割區域移去工件的任何切片或其他部分。
16. 滑動式多角度鋸機的下部安全罩鎖定在開啟位置時，切勿進行使用。
17. 確保下部安全罩能夠平滑地移動。
18. 安全罩未處於正常位置時請勿使用複合鋸，要在其工作狀態良好且得到正確的維護的情況下使用。
19. 使用經過正確磨快的鋸條。注意鋸條上標注的最大速度。
20. 鋸條破損或變形時請勿使用。
21. 不要使用以高速鋼材製造的鋸條。
22. 請僅使用 HiKOKI 公司所推薦的鋸條。
23. 鋸片的外徑應為 190 mm。
24. 須根據要切割的材料來選擇鋸條。
25. 滑動式多角度鋸機的鋸條往上面或側面翹起時，切勿進行使用。
26. 確保工件上無任何異物（如鐵釘等）。
27. 導板磨損時請予更換。
28. 請勿使用鋸條切割鋁材、木材或類似材料以外的材料。
29. 請僅使用製造商所推薦的多角度鋸機割材料。
30. 鋸條更換程序，包括重置方法以及關於務必正確進行此程序的警告。

使用滑動式多角度鋸機須知

1. 機器周圍的地面應保持水平，維護良好且無鬆散的物料，如碎屑與切片。
2. 保證充足的總體或局部照明。
3. 請勿將本電動工具用於使用說明書中所規定之外的其他用途。

31. 在切割木頭時，將滑動式多角度鋸機與集塵裝置相連接。
32. 開槽時要小心。
33. 在搬運此電動工具時，請勿抓住其支架。應抓住手柄而不要抓住支架。
34. 須在電動機達到最大轉速時才開始切割。
35. 發現異常情況時應迅速斷開開關。
36. 在切斷電源並等到鋸條停止之後，方可對工具進行維修或調整。
37. 在進行斜接切割或斜角切割中，在鋸條完全停止轉動之後，方能升高鋸條。
38. 進行滑動切割操作時，鋸子的推動和滑動必須遠離操作員。
39. 務必考慮切割操作中所有可能產生的遺留風險，如激光輻射對眼睛的傷害、無意中接觸機器滑動機械部分的運動部件等等。
40. 確保每次切割前，機器是在穩定的狀態。僅使用最大允許速度比本電動工具空載轉速更高的鋸條。切勿更換不同類型的激光。
41. 不要在機器前面與鋸條站成一直線。務必站在鋸條的側邊。這樣可以保護您的身體免受可能的反彈。保持手部、手指和手臂遠離旋轉中的鋸條。操作工具臂桿時，不要交叉您的雙臂。
42. 如果鋸條卡住，請關閉機器並保持工件在原位，直到鋸條完全停止為止。為了避免反彈，直到機器已經完全停止後，不要移動工件。重新啟動機器前，糾正鋸條卡住的原因。

附加安全警告

1. 請勿讓異物進入充電電池的連接口內。
2. 切勿拆卸充電式電池與充電器。
3. 切勿使充電電池短路。
電池短路會造成極大電流和過熱。從而燒壞電池。
4. 請勿將電池丟入火中。燃燒電池會引起爆炸。
5. 連續使用鋸機時，鋸機可能過熱，導致電動機與開關損壞。請暫停使用大約 15 分鐘。
6. 請勿將異物插入充電器的通風口。若將金屬異物或易燃物插入通風口的話，將會引起觸電事故或使充電器受損。
7. 請勿使用耗竭電力的電池，否則將會損壞充電器。
8. 充電後電池壽命若太短不夠使用，請盡快將電池送往經銷店。不可將用過的電池丟棄。
9. 在進行任何調整、保養或維修之前，須先取出電池。完成作業時，應取出電池。
10. 如果工具或電池端子（電池座）變形，請勿使用本產品。
安裝電池可能會造成短路，從而導致冒煙或起火。

11. 保持工具的端子（電池座）沒有削屑和灰塵。
 - 使用前請確認端子區域沒有堆積削屑和灰塵。
 - 使用過程中盡量避免工具上的削屑或灰塵掉落在電池上。
 - 暫停操作或使用後，請勿將工具留在可能暴露於有掉落削屑或灰塵的區域。
否則可能會造成短路，從而導致冒煙或起火。
12. 務必在 0°C 至 40°C 的溫度下使用本工具和電池。

鋰離子電池使用注意事項

為延長使用壽命，鋰離子電池備配停止輸出的保護功能。

若是在使用本產品時發生下列 1 至 3 的情況，即使按下開關，馬達也可能停止。這並非故障，而是啟動保護功能的結果。

1. 在殘留的電池電力即將耗盡時，馬達會停止。
在這種情況下，請立即予以充電。
2. 若工具超過負荷，馬達亦可能停止。在這種情況下，請鬆開工具的開關，試著消除超過負荷的原因。之後您就可以再度使用。
3. 若電池在過載工作情況下過熱，電池電力可能會中止。
在這種情況下，請停止使用電池，讓電池冷卻。之後您就可以再度使用。

此外，請留心下列的警告及注意事項。

警告

為事先防止電池發生滲漏、發熱、冒煙、爆炸及起火等事故，請確保留意下列事項。

1. 確保電池上沒有堆積削屑及灰塵。
 - 在工作時確定削屑及灰塵沒有掉落在電池上。
 - 確定所有工作時掉落在電動工具上的削屑和灰塵沒有堆積在電池上。
 - 請勿將未使用的電池存放在曝露於削屑和灰塵的位置。
 - 在存放電池之前，請清除任何可能附著在上面的削屑和灰塵，並請切勿將它與金屬零件（螺絲、釘子等）存放在一起。
2. 請勿以釘子等利器刺穿電池、以鐵錘敲打、踩踏、丟擲電池，或將其劇烈撞擊。
3. 切勿使用明顯損壞或變形的電池。
4. 使用電池時請勿顛倒電極。
5. 請勿直接連接電源插座或汽車點煙器孔座。
6. 請依規定方式使用電池，切勿移作他用。
7. 如果已過了再充電時間，電池仍無法完成充電，請立即停止繼續充電。
8. 請勿將電池放置於高溫或高壓處，例如微波爐、烘乾機或高壓容器內。
9. 發現有滲漏或異味時，請立即將電池遠離火源處。
10. 請勿在會產生強烈靜電的地方使用。

11. 如電池出現滲漏、異味、發熱、褪色或變形，或在使用、充電或存放時出現任何異常，請立即將它從裝備或電池充電器拆下，並停止使用。
12. 請勿將電池浸入任何液體，或讓任何液體流入電池內。若水等具有傳導性的液體滲入，可能會造成損壞，進而導致火災或爆炸。將電池存放在陰涼、乾燥的地方，遠離可燃及易燃物品。必須避免腐蝕性氣體環境。

注意

1. 若電池滲漏出的液體進入您的眼睛，請勿搓揉眼睛，並以自來水等乾淨清水充分沖洗，立刻送醫。若不加以處理，液體可能會導致眼睛不適。
2. 若液體滲漏至您的皮膚或衣物，請立即以自來水等清水沖洗。
上述情況可能會使皮膚受到刺激。
3. 若初次使用電池時發現生鏽、異味、過熱、褪色、變形及／或其他異常情況時，請勿使用並將該電池退還給供應商或廠商。

警告

若具有導電性的異物進入鋰離子電池的端子，可能會造成短路，進而引發火災。請在存放電池時遵循以下事項。

- 請勿將導電物品，如鐵釘、鐵絲等金屬絲，銅線和電線放入儲存箱內。
- 為了防止發生短路，將電池裝入工具內或確實壓下電池蓋儲存電池，直至遮住通風孔為止。

關於鋰離子電池的運輸

運輸鋰離子電池時，請遵守以下注意事項。

警告

安排運輸時，請通知運輸公司包裹中含有鋰離子電池，告知該電池之輸出功率，並按照運輸公司的指示。

- 輸出功率超過 100 Wh 的鋰離子電池被視為貨物分類中的危險物品，將需要特殊的申請程序。
- 對於國外的運輸，必須遵守國際法規則和目的國法規。

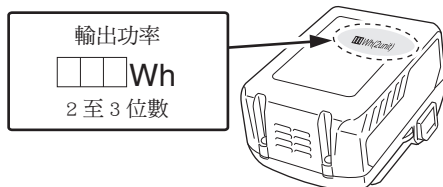


圖 1

部件名稱

工具主機：C3607DRA

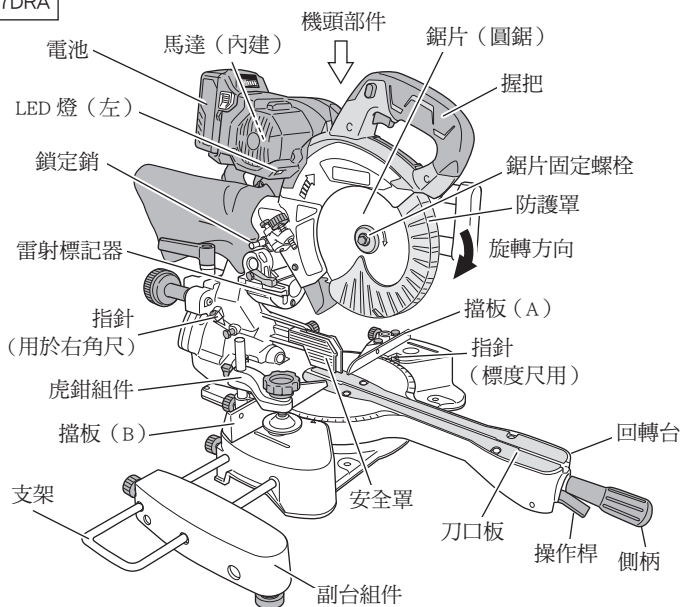


圖 2

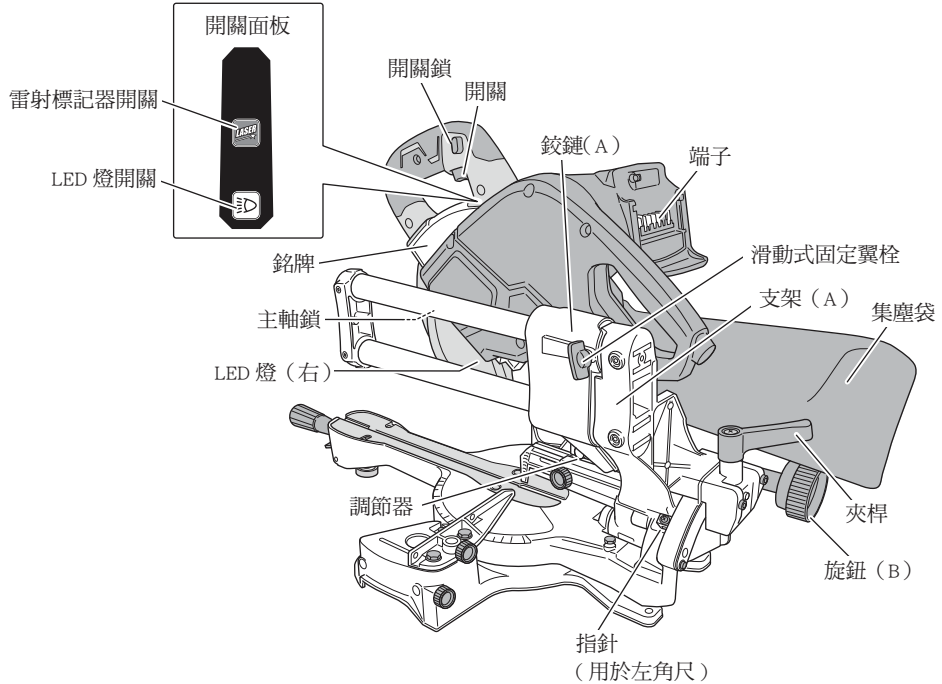


圖 3

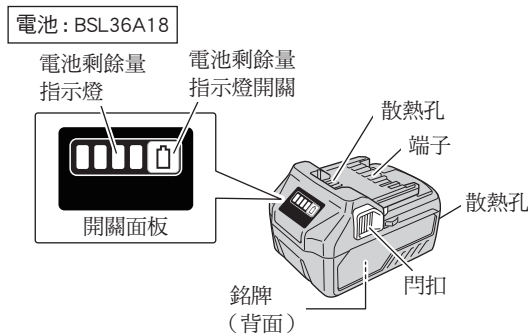


圖 4

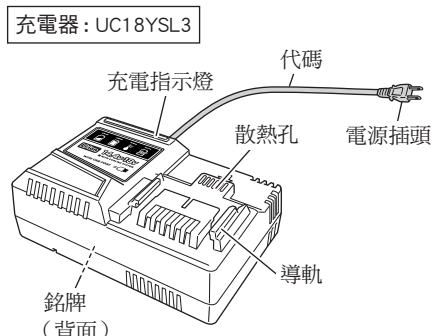


圖 5

○ 安裝新電池時，請使用正廠 HiKOKI 電池
如果使用非 HiKOKI 指定的電池或是拆解或改造的電池（含拆解電池和內部零件的電池，例如更換電池芯），HiKOKI 恕無法提供任何安全性或產品保固。

標準附件

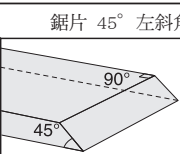
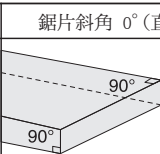
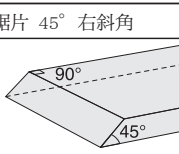
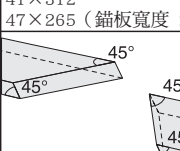
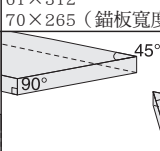
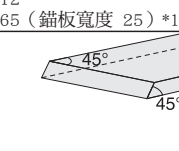
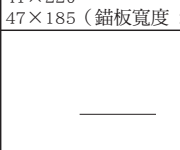
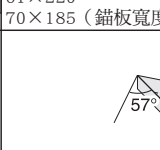
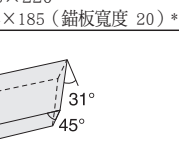
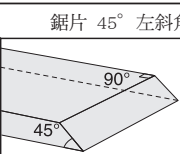
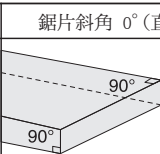
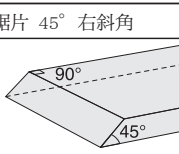
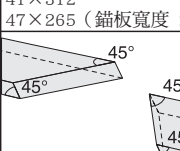
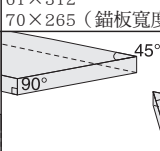
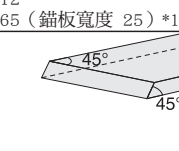
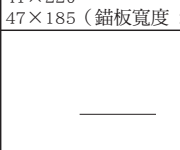
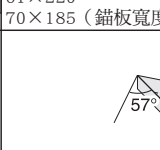
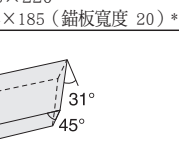
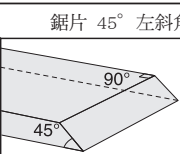
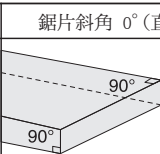
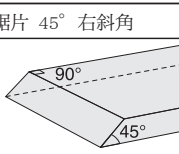
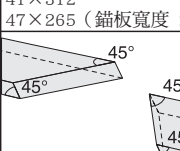
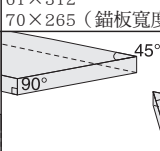
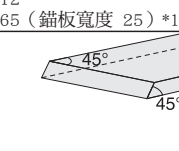
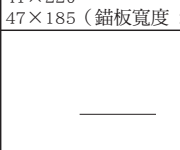
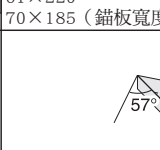
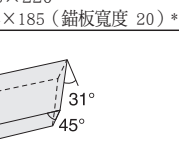
用途

除了主機身(1 台)以外，包裝盒內包含第 57 頁所列之附件。切割各種類型的鋁框格或木材。

標準附件可能不預先通告而徑予更改。

規格

1. 工具主機

| | | | | | | | | | | | | | | | |
|--|--|---|---|------------|--------------|------------|--|--|---|--|--|---|--|--|---|
| 機型名稱 | 多角度切斷機：C3607DRA（附雷射標記器、附斜角微調） | | | | | | | | | | | | | | |
| 馬達 | DC 無刷馬達 | | | | | | | | | | | | | | |
| 可使用的鋸條 | 外徑 190 mm× 孔徑 20 mm | | | | | | | | | | | | | | |
| 空載速度 | 4000 /min { 每分鐘轉數 } | | | | | | | | | | | | | | |
| 最大切割尺寸 (最大高度 × 最大寬度；mm) | <table><tr><td>鋸片 45° 左斜角</td><td>鋸片斜角 0° (直角)</td><td>鋸片 45° 右斜角</td></tr><tr><td> 41×312 47×265 (錨板寬度 25) *1</td><td> 61×312 70×265 (錨板寬度 25) *1</td><td> 18×312 24×265 (錨板寬度 25) *1</td></tr><tr><td> 41×220 47×185 (錨板寬度 20) *1</td><td> 61×220 70×185 (錨板寬度 20) *1</td><td> 18×220 24×185 (錨板寬度 20) *1</td></tr><tr><td> 61×170 70×140 (錨板寬度 15) *1</td><td> 61×170 70×140 (錨板寬度 15) *1</td><td> 18×260 24×225 (錨板寬度 20) *1</td></tr></table> | | | 鋸片 45° 左斜角 | 鋸片斜角 0° (直角) | 鋸片 45° 右斜角 |  41×312 47×265 (錨板寬度 25) *1 |  61×312 70×265 (錨板寬度 25) *1 |  18×312 24×265 (錨板寬度 25) *1 |  41×220 47×185 (錨板寬度 20) *1 |  61×220 70×185 (錨板寬度 20) *1 |  18×220 24×185 (錨板寬度 20) *1 |  61×170 70×140 (錨板寬度 15) *1 |  61×170 70×140 (錨板寬度 15) *1 |  18×260 24×225 (錨板寬度 20) *1 |
| | 鋸片 45° 左斜角 | 鋸片斜角 0° (直角) | 鋸片 45° 右斜角 | | | | | | | | | | | | |
| |  41×312 47×265 (錨板寬度 25) *1 |  61×312 70×265 (錨板寬度 25) *1 |  18×312 24×265 (錨板寬度 25) *1 | | | | | | | | | | | | |
| |  41×220 47×185 (錨板寬度 20) *1 |  61×220 70×185 (錨板寬度 20) *1 |  18×220 24×185 (錨板寬度 20) *1 | | | | | | | | | | | | |
|  61×170 70×140 (錨板寬度 15) *1 |  61×170 70×140 (錨板寬度 15) *1 |  18×260 24×225 (錨板寬度 20) *1 | | | | | | | | | | | | | |
| *1: 安裝錨板時的最大尺寸。 小心工作，因為材料可能會接觸到機頭的底部。有關詳情，請參閱第 44 頁「3. 切割高型材料的準備和調整」。 | | | | | | | | | | | | | | | |
| 角度切割範圍 | 左側 0° 至 45° 右側 0° 至 57° | | | | | | | | | | | | | | |
| 斜角切割範圍 | 左側 0° 至 45° 右側 0° 至 45° | | | | | | | | | | | | | | |
| 複合切割範圍 | 左斜角 0° 至 45° 左／右旋轉 0° 至 45° | | | | | | | | | | | | | | |
| | 右斜角 0° 至 45° 左旋轉 0° 至 31° 右旋轉 0° 至 45° | | | | | | | | | | | | | | |
| LED 燈 | 白色 LED | | | | | | | | | | | | | | |
| 雷射功率 | 0.4 mW 或更少 (1M 類) | | | | | | | | | | | | | | |
| 安裝尺寸 | 寬度 220 mm× 深度 242 mm | | | | | | | | | | | | | | |
| 重量 | 14.0 kg (已安裝電池時) | | | | | | | | | | | | | | |
| 可用電池 *2 | 多伏型電池 | | | | | | | | | | | | | | |

*2: 不能使用現有電池 (BSL3660/3626/3620 和 BSL18xx、BSL14xx 系列)。

2. 電池

| | |
|-------------|----------------------------|
| 機型名稱 | BSL36A18 |
| 類型 | 圓柱型密封鋰離子電池 |
| 電池電壓 | 36 V / 18 V (自動切換 *1) |
| 容量 | 2.5 Ah / 5.0 Ah (自動切換 *1) |
| 冷卻 | 支援 |
| 可用的充電式產品 *2 | 18 V 產品 36 V 產品多伏電池相容產品 |
| 可用的充電器 | 滑動式鋰離子電池用的充電器 |
| 電池剩餘量指示燈 | 綠色 LED |

*1: 由工具主機自動切換。
*2: 詳情請參閱本公司的綜合目錄。

充 電

使用電動工具之前，按下述方法將電池進行充電。

- 1. 將充電器的電源線纜連接到插座。
插頭接上插座時，充電信號燈會閃爍紅燈（閃爍間隔時間為 1 秒）。
- 2. 將電池裝入充電器
將電池牢固地裝入充電器，如圖 6 所示。

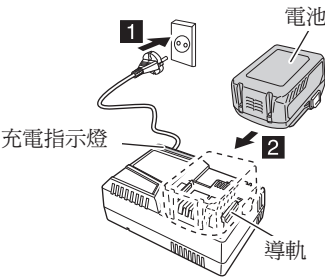


圖 6

- 3. 充電中
當電池插入充電器時，充電信號燈會閃爍藍燈。
當電池已完全充電時，充電信號燈會亮起綠燈。
(見表 1)
- (1) 充電信號燈指示
依據充電器或充電電池的狀態，充電信號燈會有不同的指示，如表 1 所示。

表 1

| 充電信號燈的指示 | | | | |
|--------------------------|------|----------|---|------------------------------|
| 充電信號燈 (紅 / 藍 / 綠 / 紫) | 充電前 | 閃爍 (紅) | 亮起 0.5 秒，熄滅 0.5 秒。(熄滅間 0.5 秒) | 插入電源 |
| | 充電時 | 閃爍 (藍) | 亮起 0.5 秒，熄滅 1 秒。(熄滅間 1 秒) | 電池容量少於 50% |
| | | 閃爍 (藍) | 亮起 1 秒，熄滅 0.5 秒。(熄滅間 0.5 秒) | 電池容量少於 80% |
| | | 亮起 (藍) | 持續亮起 | 電池容量超過 80% |
| | 充電完成 | 亮起 (綠) | 持續亮起 (連續的蜂鳴聲：約 6 秒) | |
| | 過熱待機 | 閃爍 (紅) | 亮起 0.3 秒，熄滅 0.3 秒。(熄滅間 0.3 秒) | 電池過熱。無法充電。 (待電池降溫後便會開始充電) |
| | 無法充電 | 快速閃爍 (紫) | 亮起 0.1 秒，熄滅 0.1 秒。(熄滅間 0.1 秒) ■■■■■■■■■■■■■■■■■■■■ | 電池或充電器故障 |
| | | | (間歇的蜂鳴聲：約 2 秒) | |

(2) 關於充電電池的溫度和充電時間
溫度和充電時間如表 2 中所示。

表 2

| 充電器 | | | UC18YSL3 | | | | |
|-----|---------------------|----|--|--|--|--|--------------------------------|
| 電池 | 電池類型 | | Li-ion | | | | |
| | 電池可充電的溫度 | | 0°C - 50°C | | | | |
| | 充電電壓 | V | 14.4 | | 18 | | |
| | 充電時間， 約 (於 20°C) | 分鐘 | BSL14xx 系列 | | BSL18xx 系列 | | 多伏特系列 |
| | | | (4 個電池芯) | (8 個電池芯) | (5 個電池芯) | (10 個電池芯) | (10 個電池芯) |
| | | | BSL1415S: 15 BSL1415 : 15 BSL1415X: 15 BSL1420 : 20 BSL1425 : 25 BSL1430C: 30 | BSL1430 : 20 BSL1440 : 26 BSL1450 : 32 BSL1460 : 38 | BSL1815S: 15 BSL1815 : 15 BSL1815X: 15 BSL1820 : 20 BSL1825 : 25 BSL1830C: 30 | BSL1830 : 20 BSL1840 : 26 BSL1850 : 32 BSL1860 : 38 | BSL36A18 : 32 BSL36B18 : 52 |

註：
根據環境溫度和電源電壓，充電時間可能會有所不同。

- 4. 將充電器的電源線從插座拔下。
- 5. 拿穩充電器並取出電池。

註：
充電結束後，務必從充電器取出電池，然後妥善存放。

使用新電池或其他電池，產生電量較弱的問題時。

由於新電池及長時間未使用之電池的內部化學物質未活化，因此初次及第二次使用時的電量會較弱。此為暫時現象；在充電 2 至 3 次後，電量就會恢復正常。

怎樣讓電池使用時間更長。

- (1) 在電池電量完全耗盡之前給電池充電。
在感覺工具的動力變弱時，停止使用工具並為電池充電。如果繼續使用工具消耗電流，可能會造成對電池的損壞，電池使用壽命會縮短。
- (2) 避免在高溫下充電。
充電電池在剛使用後會發熱。如果在電池剛使用後為電池充電，電池的內部化學物質的性能會下降，電池使用壽命會縮短。請先將電池放置一會兒，待電池冷卻後再進行充電。

注意

- 電池因長時間放置在直射陽光處遭到日曬或剛使用後會發熱，若在此時進行充電，充電器的信號燈會亮起 0.3 秒，非亮起 0.3 秒（熄滅 0.3 秒）。此時您必須先待電池冷卻，再進行充電。
- 充電信號燈快速閃爍時（間隔時間為 0.2 秒），請檢查充電器的電池連接處是否有異物並加以清除。若沒有異物，則表示電池或充電器可能發生故障，請將其送往當地授權服務中心。
- 由於 UC18YSL3 內置微電腦需要約 3 秒的時間確認進行充電的電池已被取出，請等待至少 3 秒後再將電池重新插入繼續充電。如果電池在 3 秒之內重新插入，電池可能無法正常充電。

使用前的準備

警告

進行使用前的準備時，務必關閉開關並從工具主機中取出電池。

1. 移除包裝材料
從工廠裝運時，包裝材料已包附在產品上，以防止運輸過程中出現問題。
從包裝箱中取出機器後，請小心移除該包裝材料。
2. 桌上型圓鋸機的安裝
將機器安裝在沒有任何傾斜且穩定的平坦表面上。
將機器固定到工作台上時，請使用底座上的安裝孔（底座正面 2 個孔，底座背面 3 個孔，內徑 9 mm）。（圖 7）
使用 8 mm 螺栓固定機器。

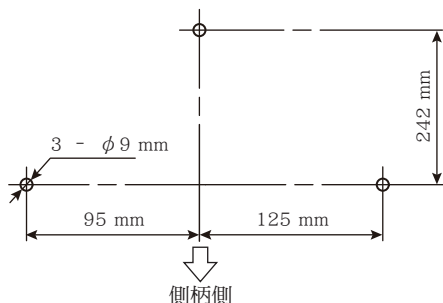


圖 7

切割時，如果向前滑動機頭部件並向下推，則主機可能會發出嘎嘎聲。
向左或向右轉動固定螺絲進行調整，以使其輕觸底部。（圖 8）

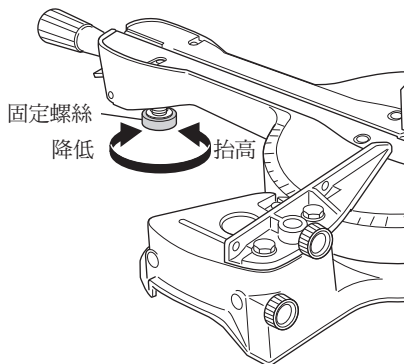


圖 8

3. 釋放鎖定銷

出廠時，機頭已用鎖定銷固定。
使用前，請按箭頭方向拉動鎖定銷。
如果稍微降低握把，則可以輕易地將鎖定銷拉出。（圖 9）
運輸機器時，將握把向下推並推入鎖定銷以固定機頭。

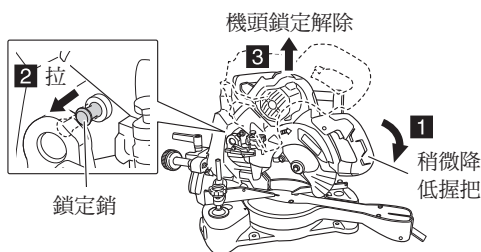


圖 9

4. 標準配件的安裝

如圖 10 所示，安裝標準配件集塵袋、支架、副台組件和側柄。

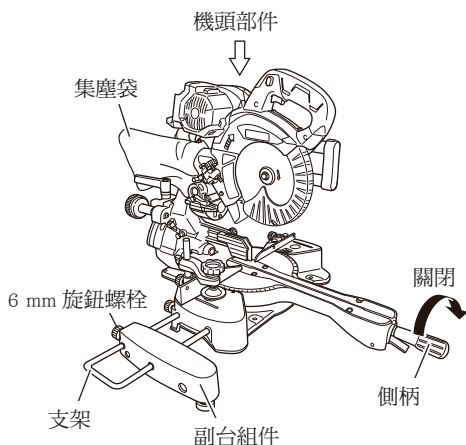


圖 10

支架和副台組件用於穩定長型切割材料。使用角尺或類似物，以確保底部和副台組件相配。轉動固定螺絲進行高度調整，並上下移動副台組件對其調整（圖 11）。調整後，用底座背面的 6 mm 旋鈕螺栓（標準配件）固定支架，然後將 6 mm 旋鈕螺栓固定在副台組件上。

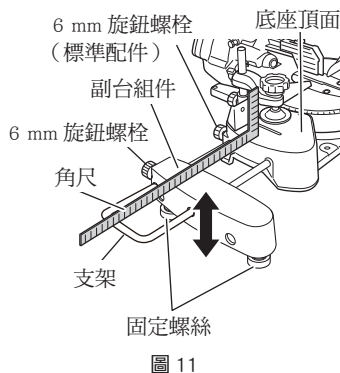


圖 11

鋸片的安裝（更換）

警告

- 務必關閉開關並從工具主機中取出電池以防止發生事故的風險。
- 除標準配件套筒扳手以外，請勿使用任何工具安裝或拆除鋸片固定螺栓。否則可能會造成擰得過緊或不緊，從而導致受傷。

本產品出廠時未安裝鋸片。

安裝鋸片或更換新鋸片時，請遵循以下步驟。

1. 按住主軸鎖的同時，如果用標準配件套筒扳手緩慢轉動鋸片固定螺栓，則有一個鋸片停止旋轉的位置。在此狀態下，主軸會被固定（鋸片無法旋轉）。在此狀態下順時針旋轉套筒扳手，以鬆開鋸片固定螺栓。（圖 12）

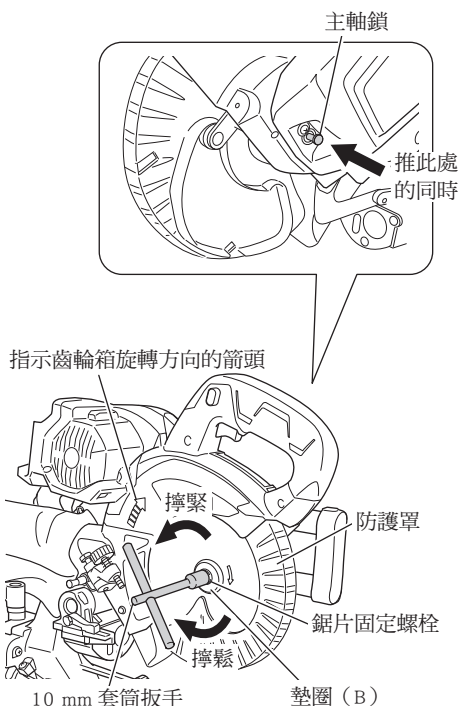


圖 12

2. 握住鋸片的同時拆卸鋸片固定螺栓和墊圈（B）使其不會掉落。
3. 抬起防護罩並拆卸舊的鋸片。

警告

用標準配件扳手牢牢擰緊鋸片固定螺栓，使其不會變得鬆動。

在螺栓未擰緊時進行切割作業可能會導致受傷。

注意

- 安裝鋸片時，使鋸片的旋轉方向與齒輪箱上的旋轉方向箭頭一致。
- 檢查用於安裝和拆卸鋸片的主軸鎖是否已返回其原始位置。

4. 徹底清除墊圈 (A)、墊圈 (B) 和鋸片固定螺栓上的所有鋸屑。
5. 如圖 13 所示安裝每個部件。將墊圈 (A) 和墊圈 (B) 安裝到主軸的每一側，並注意方向。安裝鋸片時，使鋸片的旋轉方向與齒輪箱上的旋轉方向箭頭一致。

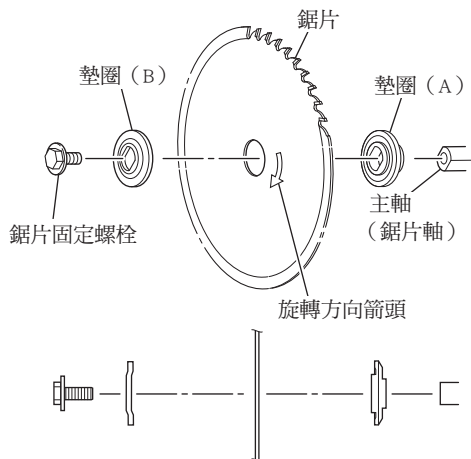


圖 13

6. 在按住主軸鎖的同時，如果用標準配件套筒扳手逆時針轉動鋸片固定螺栓，則螺栓將擰緊。

註：

安裝鋸片後，請檢查鋸片的表面偏斜。(見 40 頁「2. 檢查鋸片的表面偏斜」)

使用前的檢查

警告

- 使用前請檢查以下內容。將電池插入工具主機之前，請檢查步驟 1 至 4。
- 確保鋸片固定螺栓充分擰緊。螺絲鬆動可能會造成受傷。
- 切勿固定防護罩。並確保其移動順暢。鋸片暴露在外可能會造成受傷。

1. 確保鋸片擰緊

按住主軸鎖的同時，用套筒扳手（標準配件）逆時針轉動鋸片固定螺栓，以停止鋸片旋轉。在該狀態下將其擰緊。(圖 14)

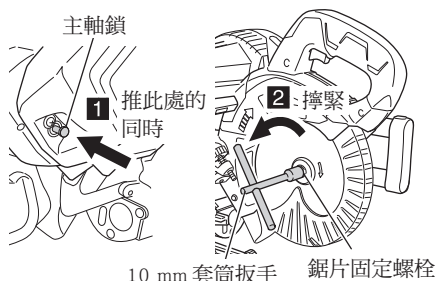


圖 14

註：

擰緊鋸片後，檢查主軸鎖是否已回到其原始位置。

2. 檢查鋸片的表面偏斜

- 從主軸端面看時，不按主軸鎖，使用套筒扳手（標準配件）逆時針旋轉鋸片固定螺栓，並檢查表面偏斜。
- 如果表面偏斜較大，則無法進行準確的切割。又，其可能會引起振動。
- 如果表面偏斜較大，請參閱第 39 頁「鋸片的安裝（更換）」，檢查鋸片、墊圈 (A)、墊圈 (B) 和鋸片固定螺栓的安裝。

3. 檢查防護罩的移動

- 防護罩可防止身體接觸鋸片。
- 確保鋸片移動順暢，以便覆蓋鋸片。(圖 15)

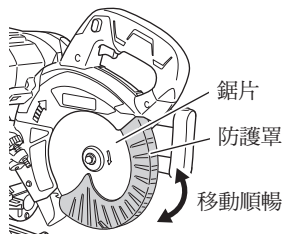


圖 15

註：

如果鋸屑沾粘在防護罩並且鋸條變得難以看見，請用布將其擦拭乾淨。

4. 確認開關和開關鎖的運作

- 開關鎖可防止裝置意外啟動。
- 按住開關鎖的同時拉動開關。釋放開關鎖之後，釋放開關。

確保開關和開關鎖回到其原始位置。

5. 安裝電池

按照圖 16 所示的方向用力向下推，直到其發出咔噠聲。

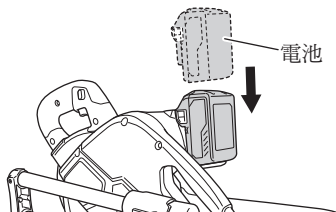


圖 16

注意

當制動器起作用時要注意反彈。
機頭可能會突然掉落，造成受傷。

6. 確保制動器接合

- 本產品的設計為一旦關閉開關，制動器就會對鋸片的旋轉起作用。
- 使用前，請確保制動器接合。

7. 取出電池

在按下兩側的門扣的同時，滑動並拉出。(圖 17)

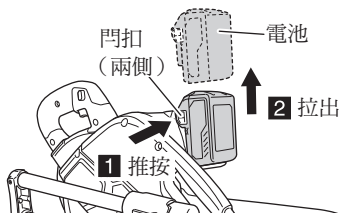


圖 17

註：

如果主軸鎖、開關或開關鎖不返回其原始位置，如果防護罩不能移動順暢，或者如果制動器不能正常起作用，請要求 HiKOKI 授權服務中心修理裝置。

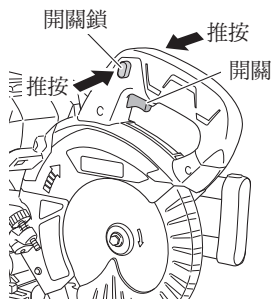


圖 18

開關開啟後，即使釋放了開關鎖，只要拉動開關，鋸片就會繼續旋轉。

釋放開關時，制動器會對鋸片的旋轉起作用，使鋸片停止。

2. 開啟／關閉 LED 燈和雷射標記器

警告

- 電池已安裝時，LED 燈和雷射標記器會亮起。
 - 如果不小心拉動開關，鋸片將意外旋轉，這可能會導致事故。
 - 取下雷射標記器，請勿將其用於任何其他目的。
 - 按下開關面板上的雷射標記器開關以開啟雷射線。再按一次將其關閉。(圖 19)
 - 按下 LED 燈開關可切換 LED 燈的照明模式。(圖 19，表 3)
- 盡可能將燈光關閉，以免耗盡電池。

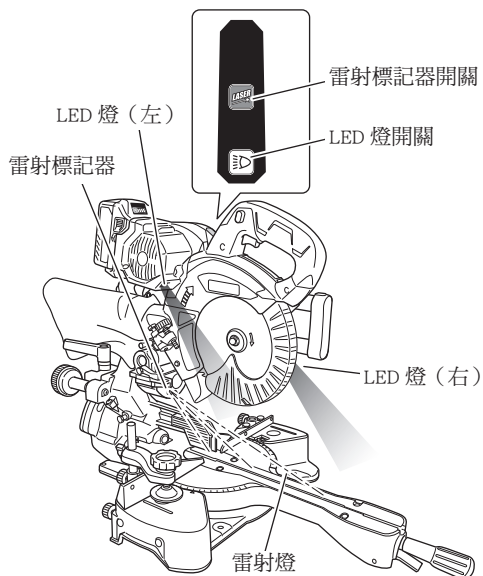


圖 19

開關操作

1. 啟動和停止主機

在將開關鎖按到箭頭任意一側的同時拉動開關，以使鋸片旋轉。(圖 18)

表 3

| 亮燈模式 | 兩側都亮燈 | 右側亮燈 | 左側亮燈 | 關 |
|----------|-------|------|------|----|
| LED 燈（右） | 穩定亮燈 | 穩定亮燈 | 熄滅 | 熄滅 |
| LED 燈（左） | 穩定亮燈 | 熄滅 | 穩定亮燈 | 熄滅 |

注意

- 請勿直視雷射光束。如果雷射光束直接照射您的眼睛，可能會傷害您的眼睛。請勿拆卸雷射。以下標籤係依照雷射標準粘貼在本裝置上。（圖 20）

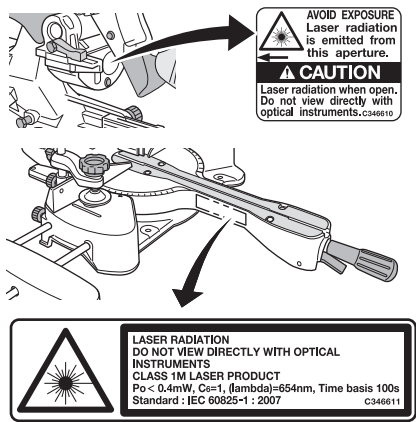


圖 20

- 請勿對雷射標記器或本產品主機施加強烈衝擊。雷射線可能會變得偏離，雷射標記器可能會損壞，或使用壽命可能會縮短。
- 當 LED 燈開啟時以及 LED 燈剛關閉後，燈光鏡片很熱。切勿觸摸。

註

- 當約一小時沒有操作任何開關時，LED 燈和雷射標記器會自動關閉，以防止由於忘記關閉而導致電池耗盡。
 - 僅在切割時開啟雷射標記器。如果雷射標記器長時間持續開啟，可能會縮短使用壽命。
 - 切割時，將雷射線重疊在切割線上。當雷射線重疊在切割線上時，切割誤差將很小並且可以進行穩定的切割作業。
 - 在戶外或靠近窗戶的室內進行作業時，如果雷射線細微且由於陽光而難以看見，請在遠離陽光直射的區域進行作業。
 - 在黑暗的室內環境中進行作業時，如果雷射線強烈且耀眼，使用 LED 燈照明將使其更容易看見。
 - 定期檢查雷射線是否錯位。檢查切割線和雷射線之間的偏差是否小於切割線寬度（0.5 mm）。
3. LED 燈警示信號
- 本產品具有保護工具主機和控制單元的功能。當在工作狀態下啟動了一種保護功能時，如表 4 中所示，在拉動開關的同時 LED 燈閃爍，並且在釋放開關後 LED 燈閃爍約 3 秒鐘。
- 如果啟動了一種保護功能，請立即從開關上移開手指，然後按照解決問題的方法進行操作。

表 4

| 保護功能 | LED 燈顯示 | 解決問題的方法 |
|------|--|----------|
| 過載保護 | 亮燈 0.1 秒／熄燈 0.1 秒（快速閃爍） ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ | 移除重載的原因。 |
| 溫度保護 | 亮燈 0.5 秒／熄燈 0.5 秒（緩慢閃爍） ■■■■ ■■■■ ■■■■ ■■■■ ■■■■ | 充分冷卻主機。 |

多種調整方式

警告

務必關閉開關並從工具主機中取出電池以防止發生事故的風險。

1. 刀口板的凹槽

由於利用要使用的鋸片來製作凹槽會更加準確，因此出廠時未在刀口板上製作凹槽。

使用前，請按照以下步驟在刀口板製作凹槽。

- (1) 將高約 15 mm、寬約 300 mm 的材料壓在擋板表面上，並用虎鉗固定。(圖 21)
(請參閱第 48 頁「如何使用虎鉗組件」)
- (2) 鬆開 6 mm 旋鈕螺栓，並將安全罩緊靠著材料以將其固定。(圖 21)

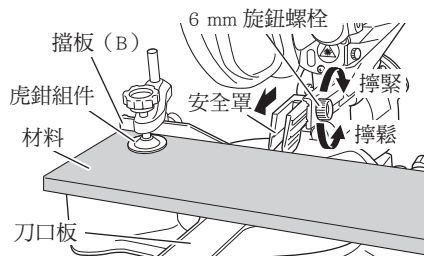


圖 21

- (3) 鬆開滑動式固定旋鈕。

將機頭滑動到上限位置，直至其到達前端，然後開啟開關。

鋸片旋轉穩定後，輕輕向下推握把並滑動，直至其接觸到後面。

切割材料的同時，在刀口板上製作凹槽。(圖 22)
(請參閱第 50 頁「3. 切割寬型材料」)

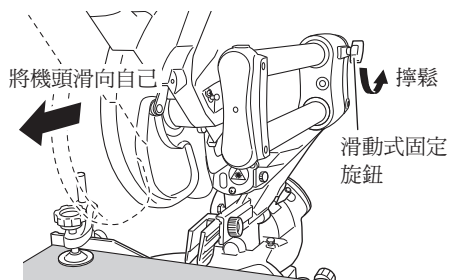


圖 22

- (4) 鬆開夾桿，將鋸片水平傾斜 45°，然後固定夾桿。以與直角相同的方式在刀口板插入一個凹槽。(圖 23)
(請參閱第 51 頁「斜角切割」)

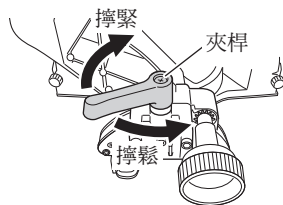


圖 23

警告

在刀口板製作凹槽時，請緩慢切割。

如果過快地製作凹槽，可能會損壞刀口板，從而導致受傷。

2. 刀口板的位置調整

警告

切割材料時，請勿切除比刀口板和鋸片之間的縫隙更細的材料。

材料可能會卡在鋸片、飛走並造成受傷。

刀口板可防止切割材料卡在鋸片。進行細切割時，請調整刀口板的位置，以使間隙小於切割寬度。

- (1) 鬆開固定刀口板的 5 mm 盤頭螺絲 (4 個)，並在拉寬刀口板的水平間隙的狀態下暫時擰緊所有 5 mm 盤頭螺絲。(圖 24)

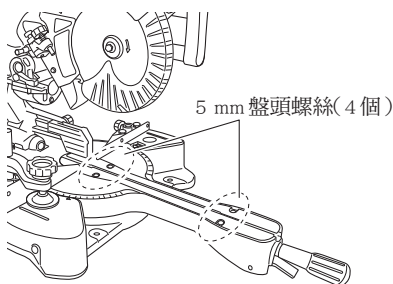


圖 24

- (2) 用虎鉗固定材料 (約 200 mm 寬)，予以切割，如圖 25-a、b、c 所示將刀口板的邊緣與切割表面對齊，並完全擰緊所有 5 mm 盤頭螺絲。

註：

用於斜角切割和直角切割時的刀口板間隙不同。

根據作業類型調整刀口板。

調整為直角切割時

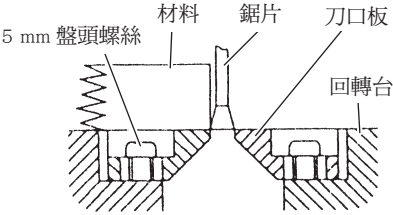


圖 25-a

調整為右斜角切割時

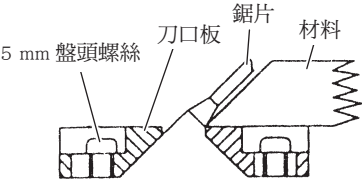


圖 25-c

調整為左斜角切割時

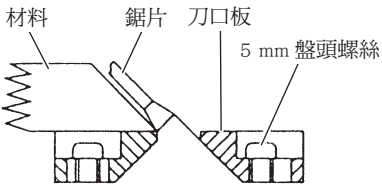


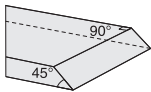
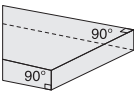
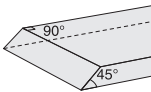
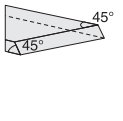
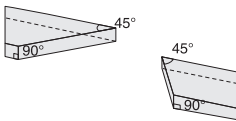
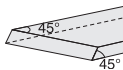
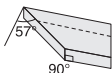

圖 25-b

3. 切割高型材料的準備和調整

切割高型材料時，正常切割將留下未切割的部分。
請按照以下步驟進行準備。

- (1) 參照表 5 準備一塊錨板。

表 5

| 鋸片斜角 | 45° 左斜角 | 直角 | 45° 右斜角 |
|----------------|---|---|--|
| 材料高度 | 41 - 47 mm | 61 - 70 mm | 18 - 24 mm |
| 回轉台 0° (直角) |  錨板寬度：25 mm |  錨板寬度：25 mm |  錨板寬度：25 mm |
| 回轉台 45° 左和右 |  錨板寬度：20 mm |  錨板寬度：20 mm |  錨板寬度：20 mm |
| 回轉台 右 57° | — |  錨板寬度：15 mm |  錨板寬度：20 mm |

- (2) 使用擋板表面上的 6 mm 孔（左右擋板的兩側各有 2 個），用 5 mm 平頭螺絲和 5 mm 螺母安裝錨板。（圖 26）

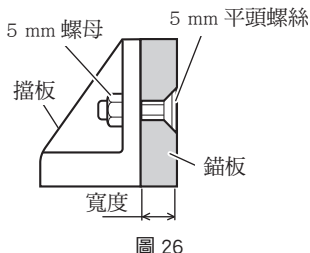


圖 26

使用以下步驟調整下限位置，以使機頭的底部不接觸材料。

- (3) 鬆開止動片 (B)，然後向後轉動機頭側面上的止動片支架。（圖 27）

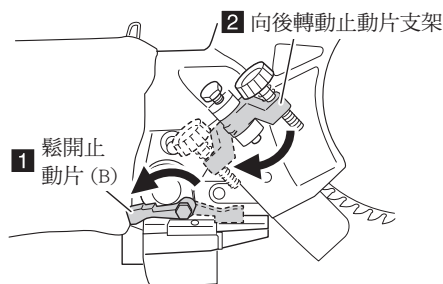


圖 27

- (4) 降低機頭，並轉動用於切割調整的 6 mm 旋鈕螺栓進行調節，以使機頭底部與材料頂面之間的間隙在鋸片下限位置（用於切割調整的 6 mm 旋鈕螺栓的尖端與鉸鏈 (A) 緊靠處）為 2 - 3 mm。（圖 28）

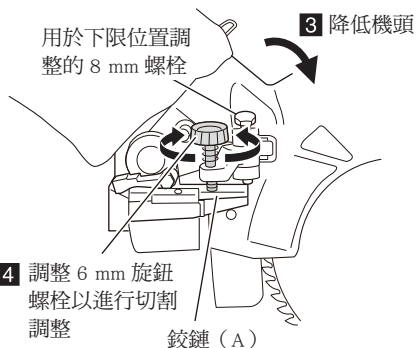


圖 28

4. 鋸片下限位置的調整

警告

- 調整用於 185 mm 圓鋸（用於鋁窗框（另售））的鋸片的下限位置，或者在重新研磨刀口後鋸片的外徑變得更小時進行調整。
- 小心地調整鋸片的下限，以使回轉台不會被鋸片鋸到，並且沒有未切割的區域。

鋸片已在工廠進行了調整，以使刀口（鋸片的下限位置）停在回轉台頂部下方 10 至 11 mm 處。使用以下的步驟調整鋸片的下限位置。

- (1) 降低機頭，然後將 8 mm 螺栓的前端推入鉸鏈 (A)，以進行下限位置調整。（圖 29）
- (2) 用 13 mm 扳手轉動用於下限位置調整的 8 mm 螺栓，以調整鋸片的下限位置。（圖 29）轉動螺栓一圈即可將位置更改約 2 mm。

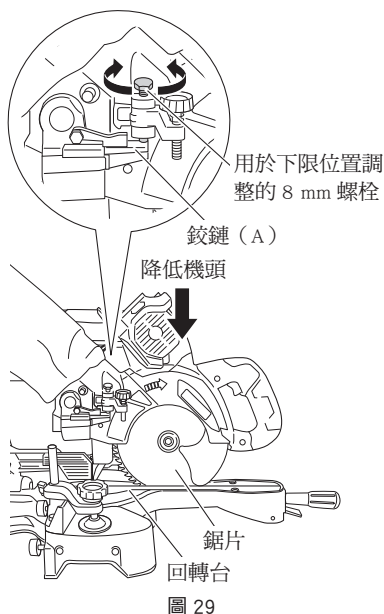


圖 29

5. 調整直角和斜角停止位置

出廠時，機頭已進行調整使其停在 0° (直角)、45° 左斜角和 45° 右斜角處。

按住機頭的同時，鬆開夾桿並按以下方式調整。

0° (直角) 停止位置 (圖 30)

轉動 8 mm 螺栓進行調整。

45° 左斜角停止位置 (圖 30)

轉動 6 mm 螺栓 (A) 進行調整。

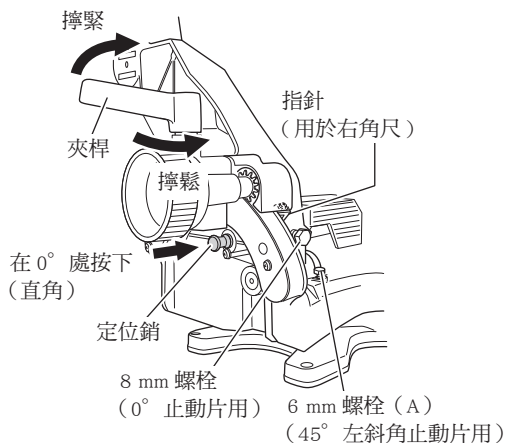


圖 30

45° 右斜角停止位置 (圖 31)

- (1) 沿箭頭方向拉出定位銷，然後將電鋸向右傾斜。
- (2) 轉動 6 mm 螺栓 (B) 調整停止位置。
- (3) 完成調整時，將機頭設定在 0° 位置，然後將定位銷返回到其原始位置。

註

檢查和調整後，擰緊夾桿並將其固定。

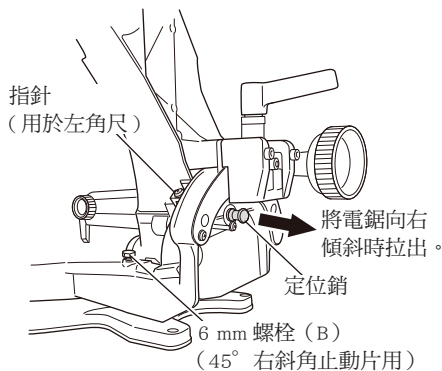


圖 31

警告

鬆開夾桿時，務必按住機頭。

機頭可能會突然傾斜，從而導致受傷或裝置損壞。

6. 斜角角度的微調

警告

- 調整斜角角度時，請在進行作業時用手支撐機頭。如果夾桿不夠緊，在調整角度時機頭可能會突然移動，而造成受傷。
- 調整後，務必完全擰緊夾桿並檢查機頭已固定。如果在未固定機頭時傾斜鋸切，機頭可能會意外移動而造成受傷。

如下調整機頭斜角角度的微調機構。

- (1) 握住機頭握把，將機頭放置在所需的角度的，然後輕輕擰緊夾桿將其暫時固定。此時，如果夾桿不夠緊，機頭將因其自身的重量而移動。基於此理由，請在進行作業時用手支撐機頭。(圖 32)

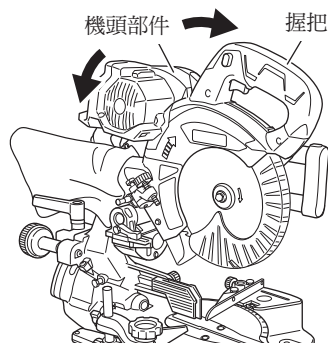


圖 32

- (2) 在支撐機頭的同時轉動旋鈕 (B)，對斜角角度進行微調。

順時針轉動旋鈕 (B) 可向左調整機頭的斜角角度，逆時針轉動可向右調整。(圖 33)

- (3) 完成斜角角度的微調後，完全擰緊夾桿以固定機頭。(圖 33)

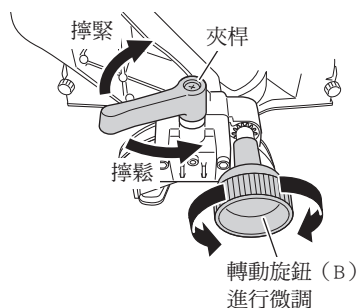


圖 33

- (4) 有關斜角切割作業，請參閱第 51 頁「斜角切割」。

7. 雷射線位置調整

警告

在電池已安裝的狀態下調整雷射線的位置。

如果不小心拉動開關，鋸片將意外旋轉，這可能會導致事故。

使用雷射標記器即可輕易對齊切割線。

出廠時，雷射線設定在鋸片寬度內。使用以下步驟根據用途調整鋸片和雷射線的位置。

(請參閱第 50 頁「1. 如何對齊鋸切線」)

- (1) 開啟雷射標記器，用虎鉗固定材料 (高度：約 20 mm，寬度：約 150 mm)，並製作一個深度約 5 mm 的凹槽。(圖 34、35、36)

(請參閱第 52 頁「1. 製作凹槽」)

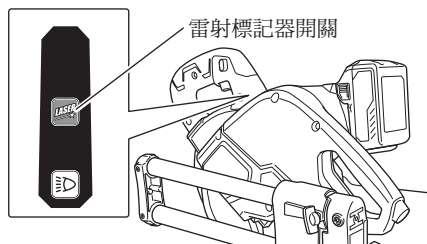


圖 34

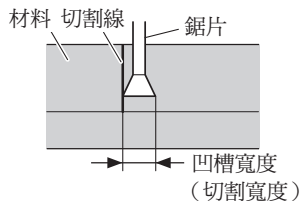


圖 35

- (2) 轉動調節器以移動雷射線。

使用鋸片左側上的切割線進行作業時，將雷射線與凹槽的左邊緣對齊，而與鋸片右側對齊時，將雷射線與凹槽的右側對齊。(圖 36)

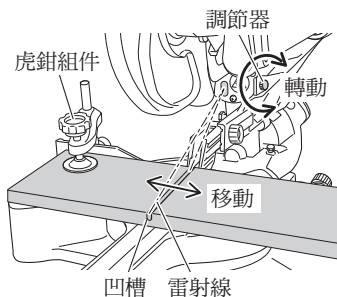


圖 36

- (3) 在材料上畫一條直角的切割線，並將切割線與雷射線對齊。與切割線對齊時，請一點一點地移動材料，然後在雷射線與切割線重疊的位置用虎鉗固定。(圖 37)

再次製作一個凹槽，然後檢查雷射線的位置。

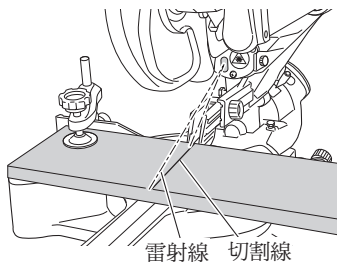


圖 37

8. 安全罩的位置調整

注意

當回轉台旋轉時，安全罩可能會碰撞到擋板。轉動回轉台之前，請事先擰鬆 6 mm 旋鈕螺栓並固定安全罩，以使其不會從擋板表面突出。(圖 38) 否則可能會損壞安全罩。

固定安全罩，
使其不會從擋
板表面突出



圖 38

用於直角切割和斜角切割

鬆開 6 mm 旋鈕螺栓，並將安全罩輕靠著切割材料以將其固定。(圖 39)

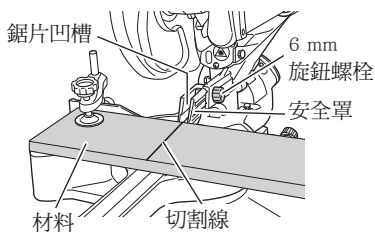


圖 39

用於角度切割和複合切割（角度切割 + 斜角切割）

鬆開 6 mm 旋鈕螺栓，沿箭頭方向（向後）移動安全罩，並確保其未從擋板表面突出。(圖 40)

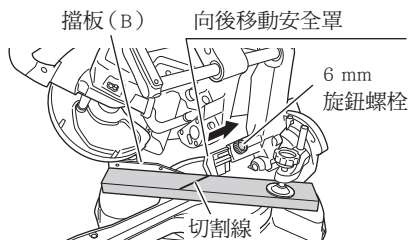


圖 40

如何使用集塵袋

註：

- 在斜角切割的情況下，鋸屑很容易造成堵塞，並可能在導管和齒輪箱中堵塞。請儘早從集塵袋中清除所有鋸屑。
- 加工木材後要切割鋁窗框時，請先清除集塵袋中的鋸屑，然後再開始進行作業。

如果集塵袋中塞滿了鋸屑，鋸屑會飛散。

在集塵袋變滿之前，請從集塵袋中清除鋸屑。

斜角切割時，請調整支撐桿，使集塵袋垂直垂下，如圖 41 所示。

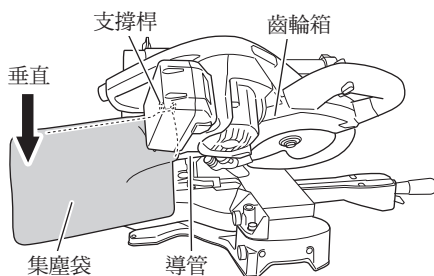


圖 41

如何使用虎鉗組件

警告

- 請勿在鋸片旋轉時安裝或移除材料。材料可能會卡在鋸片、飛走並造成受傷。
- 將材料牢固地對著擋板表面按壓，並用虎鉗裝置將其牢固固定。用身體（如手或腳等）按壓可能會導致受傷。此外，不僅會降低切割精度，還會損壞機器。

註

在斜角切割的情況下，確保切割時機頭不會接觸到虎鉗裝置。如果有可能發生接觸，請將虎鉗裝置安裝在斜角方向的相反側。(圖 42)

在左斜角切割的情況下，對於 0 至 35 mm 的材料，可以使用安裝在左側的虎鉗裝置固定材料。

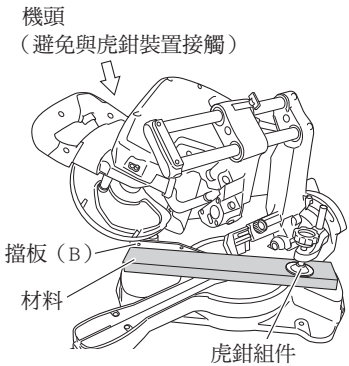
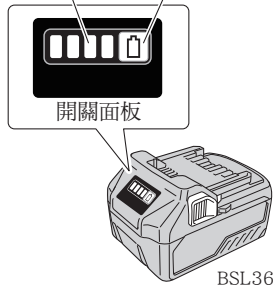


圖 42

電池剩餘量指示燈 電池剩餘量指示燈開關



BSL36A18

圖 44

表 6

| 燈光亮燈狀態 | 電池剩餘量 |
|--------|----------------|
| | 75% 以上 |
| | 50% 至未滿 75% |
| | 25% 至未滿 50% |
| | 未滿 25% |
| | 0% |
| | 由於高溫導致輸出被暫停 *1 |
| | 由於故障導致輸出被暫停 *2 |

*1: 從工具主機中取出電池並充分冷卻。

*2: 電池可能故障。請洽詢 HiKOKI 授權服務中心。

虎鉗裝置可以安裝在左右擋板上。
在擋板上安裝虎鉗裝置時，如果將虎鉗軸的 V 型槽或凹槽對齊擋板的頂面，則擋板後面的 6 mm 旋鈕螺栓的前端將與虎鉗軸的凹槽接合。

1. 將 6 mm 旋鈕螺栓的前端調整到虎鉗軸的凹槽中，然後擰緊 6 mm 旋鈕螺栓以固定虎鉗軸。(圖 43)
2. 調整螺絲支架的位置並擰緊螺絲支架後面的 6 mm 翼形螺栓以固定螺絲支架。(圖 43)
3. 將材料對著擋板表面穩固地按壓，並轉動旋鈕將其固定。(圖 43)

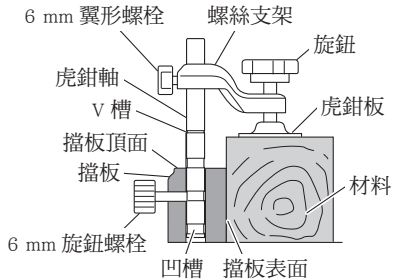


圖 43

電池剩餘量指示燈

按下電池剩餘量指示燈開關可打開燈並檢查電池剩餘量。(圖 44，表 6)
在電池剩餘量指示燈開關按下後約 3 秒，燈將熄滅。電池剩餘量指示燈會根據操作環境和電池特性等而略有不同，因此請將其作為準則使用。
此外，產品（附有電池剩餘量指示燈的產品）上的電池剩餘量指示燈和充電器可能會有所不同。

切割作業的基本原則

警告

- 每次切割或切槽後，請關閉開關，檢查鋸片是否已停止，抬起握把，然後將其恢復到原始位置。如果在切割後鋸片旋轉時抬起握把，將產生強大的推力。如果切邊很薄，切除的材料可能會卡在鋸片中並飛走。
- 在執行下一個設置之前，務必從回轉台頂部清除所有切除的材料。
- 如果連續切割，馬達將過載。如果觸摸馬達時感覺馬達很熱，請停止切割約 10 分鐘。
- 為防止事故發生，在作業的休息空檔和完成作業後務必關閉開關並從插座上拔下電源插頭。

- 切割過程中請勿觸摸側柄。此外，應保持手部和臉部遠離旋轉中的鋸片。
- 運輸過程中請勿觸摸開關。馬達可能會意外啟動並造成事故。

註

- 切割槽口時，即使對握柄施加強力，機器也不會切得更快。過度用力可能會使馬達過載並造成故障。
- 請勿用力向下按壓握把或往左右方向施力。切割精度可能會降低。例如，鋸片可能會振動，並且在從推切到滑切的過渡期間中可能會出現鋸痕（來自鋸片的條紋）。
- 切割精度在出廠時已經過調整，但是在運輸或切割過程中發生的任何衝擊都可能導致偏差。如果切割精度變得偏差，則需要對其進行檢查、調整和修復。在這種情況下，請洽詢 HiKOKI 授權服務中心。此外，在開始進行作業之前，請進行試切以檢查切割精度。

1. 如何對齊切割線（圖 45）

切割材料時，相當於鋸片的厚度會變成碎屑。因此，如果需要 ㊦ 的長度，請將切割線與鋸片的左側對齊。使用雷射標記器時，將雷射線與鋸片的左側對齊，然後將切割線與雷射線對齊。如果需要 ㊦ 的長度，請將其調整到右側。有關鋸片和雷射線對齊的更多資訊，請參閱第 47 頁「7. 雷射線位置調整」。

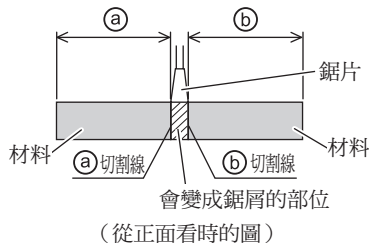


圖 45

2. 推切

推切可以切割最多 61 mm 高度和 89 mm 寬度的材料。

- (1) 將鉸鏈 (A) 靠在支架 (A) 上，並擰緊滑動式固定翼形螺栓。（圖 46）

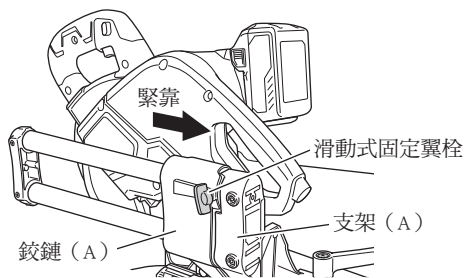


圖 46

- (2) 打開開關，並在鋸片旋轉已穩定之後，輕輕向下推握把，使其更靠近材料。（圖 47）

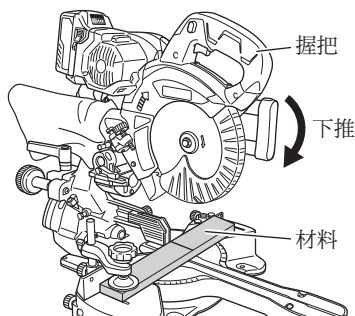


圖 47

- (3) 當鋸片與材料接觸時，逐漸向下推握把以加深並完成切割。
- (4) 完成切割時，請在鋸片已完全停止移動之後再關閉開關並抬起握把。

3. 切割寬型材料（滑切）

註

- 當切割高度為 61 至 70 mm 的材料時，請調整機器，以使鋸片處於下限位置時，機頭的底面與材料的頂面之間有 2 至 3 mm 的間隙。（請參閱第 44 頁「3. 切割高型材料的準備和調整」）
- 如果用力向下按壓握把或往左右方向施力，則切割精度可能會降低。鋸片可能會振動，並且在從推切到滑切的過渡期間中可能會出現鋸痕（來自鋸片的條紋）。輕輕向下推握把。
- 滑切時，請輕輕向後推，不要在途中停下來。如果途中停止，則切割面上會出現鋸痕（來自鋸片的條紋）。
- 切割高度為 61 mm 且寬度為 240 mm 以上的材料時，由於機器的結構，集塵率會降低。

- (1) 鬆開滑動式固定翼形螺栓，握住握把，然後將機頭朝自己的方向滑動。（圖 48，49）
- (2) 向下推握把以將鋸片降低到下限位置。（圖 49）
- (3) 按壓並向後滑動以進行切割。（圖 49）

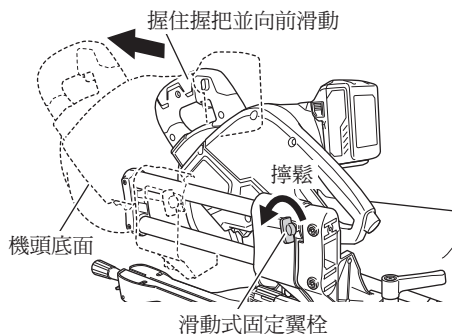


圖 48

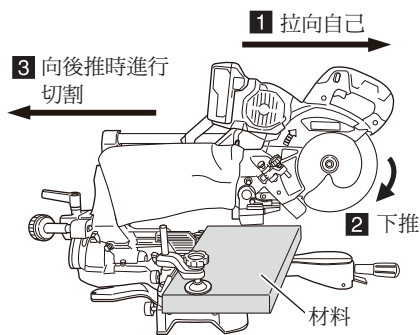


圖 49

滑切時，使用墊片 (D) 可以減少材料表面上的絨毛。按照下列步驟使用墊片 (D)：

(1) 將墊片 (D) 朝自己的方向移動，然後向後轉動止動片支架。(圖 50)

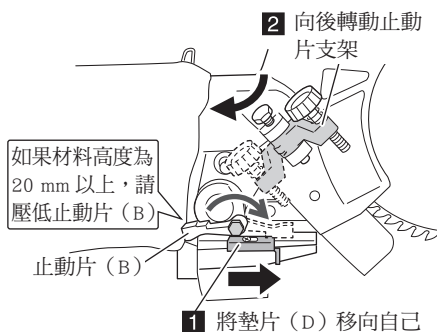


圖 50

(2) 降低機頭，並轉動用於調整切割深度的 6 mm 旋鈕螺栓，以使其前端在鋸片邊緣剛好接觸已放置材料的位置處與墊片 (D) 緊靠。(圖 51)

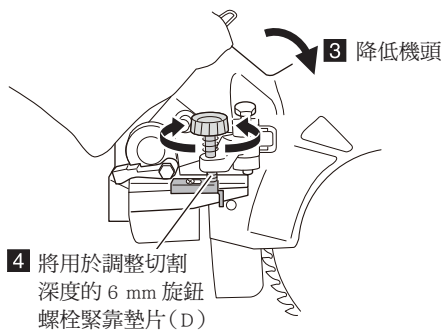


圖 51

(3) 將墊片 (D) 放回後方並進行滑切，以製作約 2 mm 的凹槽。透過執行此步驟，可以減少材料上方表面的絨毛。(圖 52)

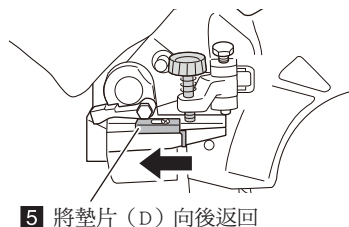


圖 52

(4) 可以透過將止動片支架返回到前面並再次執行滑切來切割材料。

如果材料的高度為 20 mm 以上，請向前傾斜止動片 (B)，以與步驟 1 至 4 相同的方式製作凹槽，返回止動片支架和止動片 (B)，然後執行滑切。透過執行此程序，可以切割高型材料。若要使用止動片 (B)，請將其向前傾斜，然後向後轉動止動片支架。

斜角切割

在任一側以 0 至 45° 之間的任意角度切割

警告

● 如果材料固定在左方且為左斜角切割，或者如果其固定在右方且為右斜角切割，則切除的材料將位於鋸片的頂部。

鋸片已完全停止後，抬起握把並將其返回到原始位置。

如果在鋸片旋轉時抬起握把，切邊上的材料可能會卡在鋸片中並飛走，而導致受傷。

- 如果斜角切割在途中被中斷，務必將機頭返回（滑動）到原始切割位置，然後重新開始切割。如果從途中位置開始切割，防護罩可能會進入切割鋸片凹槽並變形，造成與鋸片接觸並導致受傷。
- 鬆開夾桿時，務必按住機頭。

註

當在 45 度左斜角切割高度為 41 至 47 mm 的材料時，或在 45 度右斜角切割高度為 18 至 24 mm 的材料時，請進行調整，以使鋸片處於下限位置時，機頭的底面與材料的頂面之間有 2 至 3 mm 的間隙。（請參閱第 44 頁「3. 切割高型材料的準備和調整」）

1. 按住機頭的同時鬆開夾桿，然後將機頭向左或向右傾斜。向右傾斜時，如 圖 53 所示，沿箭頭方向拉動定位銷。

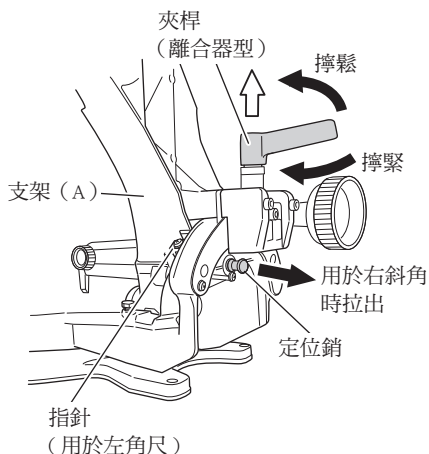


圖 53

夾桿為離合器型。如果夾桿接觸到工作台或機器，則將其向上拉並改變其方向。

2. 使用斜角尺將指針（左斜角尺用）對準所需的斜角角度。然後擰緊夾桿以固定支架（A）。（圖 53）
3. 有關切割作業，請參見第 49 頁「切割作業的基本原則」。

角度切割

旋轉回轉台，以最大 45° 的角度切割左側，最大 57° 的角度切割右側

警告

調整回轉台角度後，牢固擰緊側柄。
回轉台在運作過程中可能會移動而造成受傷。

注意

用於角度切割，請向後移動安全罩。
安全罩和擋板將相互接觸，導致切割精度下降，並且安全罩也將損壞。

透過旋轉回轉台，可以在左側切割最大 45° 的角度，在右側切割最大 57° 的角度
相對於轉盤，左右各有 0°、15°、22.5°、30° 和 45° 的角度止動片。

1. 鬆開側柄，拉起控制桿以釋放角度止動片，然後旋轉回轉台以使指針（角度尺用）與角度尺（度數刻度）對齊。
在有角度止動片的角度處，即使釋放控制桿，止動片也會運作並穩定地停止機頭。
2. 設定所需的角度後，擰緊側柄以牢牢地固定回轉台。
3. 有關切割作業，請參見第 49 頁「切割作業的基本原則」。

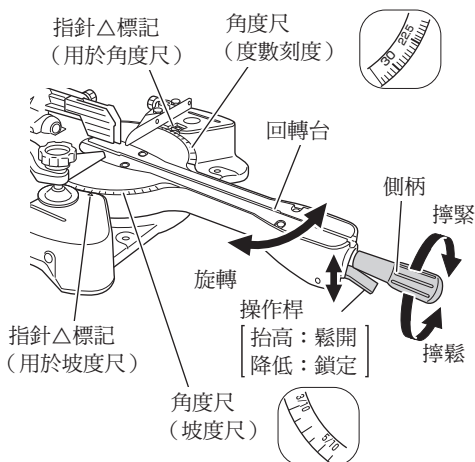


圖 54

各種類型的切割

1. 製作凹槽

註

根據材料的類型，可能會在材料周圍產生未切割的部分。用鑿子等將其去除。

透過調整下限位置，使鋸片停在所需的深度 ⑥，可以形成 圖 55 所示的凹槽。

使用鋸片形成凹槽後，用鑿子等去除陰影區域。
為了形成凹槽 ⑥，必須將鋸片的下限位置調整到從回轉台頂面到鋸片的距離 ⑥。
按照以下程序調整鋸片的下限位置。

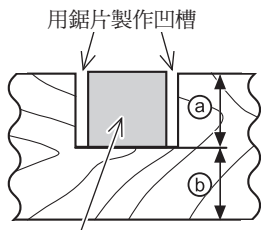


圖 55

(1) 向後轉動機頭側面的止動片支架。(圖 56)

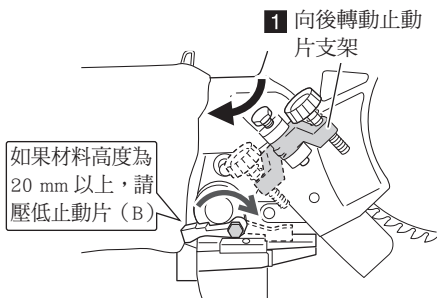


圖 56

(2) 將用於調整切割深度的 6 mm 旋鈕螺栓緊靠鉸鏈 (A)，轉動旋鈕螺栓以將鋸片的下限位置調整至距離 ⑥。(圖 57)

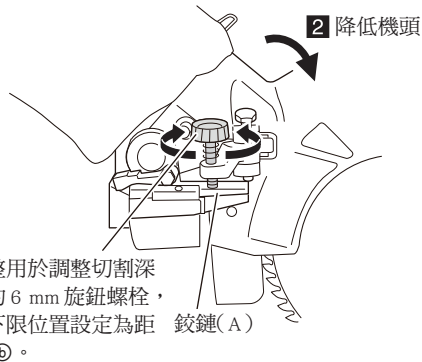


圖 57

(3) 如果 ⑥ 的高度為 20 mm 以上，則可以向前傾斜止動片 (B)，然後將用於調整切割深度的 6 mm 旋鈕螺栓的前端靠在止動片 (B) 上，最多將其調整到 60 mm (圖 56)

註：

若要使用止動片 (B)，請將其向前傾斜，然後向後轉動止動片支架。

2. 切割容易變形的材料，例如鋁窗框

警告

- 用虎鉗裝置牢牢地固定材料。
如果未適當地固定材料，則材料將變形，並且鋸片將被卡住，導致材料飛走並造成受傷。
- 使用切削油（主軸油）時，確保該區域沒有明火。

註：

- 切割鋁窗框時，在鋸片的刀口上塗抹切削油（主軸油）可使表面容易清潔。
- 加工木材後要切割鋁窗框時，請先清除集塵袋中的鋸屑，然後再開始進行作業。

鋁窗框之類的薄片很容易變形，因此如果在不使用錨板的情況下用虎鉗裝置將其夾緊，則材料將變形，並對馬達帶來過度負荷。
此外，材料在切割期間可能會意外地發出嘎嘎聲，並且衝擊力可能會施加到鋸片上。

用於易變形的材料

使用如 圖 58 所示的錨板，將其楔入要切割的材料部位附近，並用虎鉗裝置夾緊。

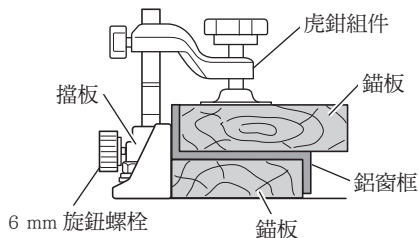


圖 58

用於 U 形材料

確保將材料以水平方向牢牢地固定 使用如 圖 59 所示的錨板，將其楔入要切割的材料部位附近，並用虎鉗裝置和市售的夾具夾緊。

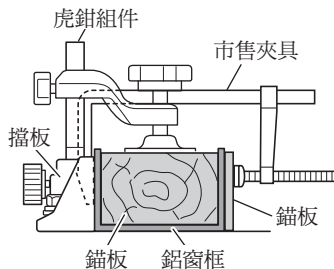


圖 59

維修和檢查

警告

為了進行維護和檢查，務必關閉主機、雷射標記器和 LED 燈，並從工具主機中取出電池。

1. 機器檢查

定期檢查每個組件的安裝是否有嘎嘎聲或鬆動。在組件鬆動的狀態下使用機器可能會導致人身傷害等事故。

如有問題，請洽詢 HiKOKI 授權服務中心。

2. 鋸片檢查

使用鈍鋸片會使馬達過載並降低工作效率。應盡快將鋸片磨銳或換新。

警告

請勿使用鈍鋸片。

如果使用不合適的鋸片，切割時的反作用力將增加，並可能造成受傷。

3. 馬達的處理

注意不要讓油或水進入馬達（內建）（請參見第 33 頁的「部件名稱」）。

註：

為了清除污垢和灰塵，在使用約 50 小時後，請在無負載的狀態下運行馬達，並透過馬達後部的通風孔吹乾燥的空氣。

馬達內部堆積污垢和灰塵可能會導致故障。

4. 防護罩移動的維護和檢查

始終確保防護罩能平穩移動。（圖 60）

註：

如果無法平穩移動，請聯繫 HiKOKI 授權服務中心進行維修。

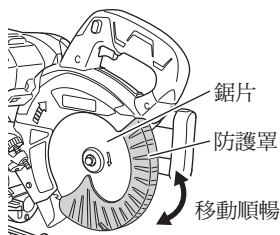


圖 60

5. 端子的檢查（工具主機、電池）

檢查端子上是否有鋸屑和灰塵。

在作業前後以及有時在作業期間進行檢查。

注意

如果端子上堆積了鋸屑和灰塵，請將其清除。使用堆積了鋸屑和灰塵的機器可能會導致故障。

6. 潤滑

每月潤滑一次潤滑點以延長機器壽命。（適用機油。）

[潤滑點]（圖 61）

- 鉸鏈（A）的旋轉部位和滑動部位（滑管）
- 虎鉗裝置的螺絲部位
- 支架（A）的旋轉部位和滑動部位

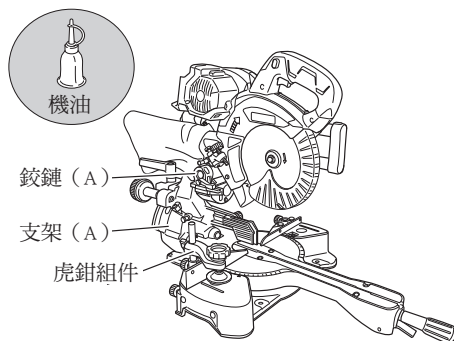


圖 61

7. 清潔

如果機器變髒，請用浸泡了肥皂水的布擰乾後仔細擦拭。

如果由於雷射標記器窗口上的鋸屑或其他碎屑而使雷射線變得難以看清，請用乾布或肥皂水擦拭窗口。

請勿使用汽油、稀釋劑、揮發油或煤油，因為這些物品會溶解塑料。請勿讓馬達被水或油弄濕。

8. 運輸機器

警告

運輸機器時，請取下副台架和副台組件。

如果副台架和副台組件從機器掉落，可能會造成受傷。

注意

運輸機器時務必關閉開關並從工具主機中取出電池。

虎鉗裝置可能在運輸過程中掉落。將其取下或夾緊一塊木頭加以固定。

降低機頭並插入鎖定銷。

在鉸鏈（A）與支架（A）鄰接的位置，擰緊滑動式固定翼形螺栓以固定機頭。（圖 62）

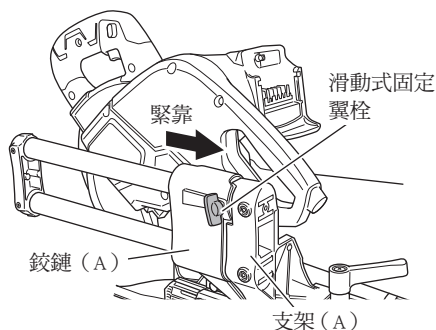


圖 62

若要固定回轉台，請轉動側柄使其鬆開，將回轉台旋轉至最右側，然後轉動握把將其固定。這使得機器更加小巧。(圖 63)

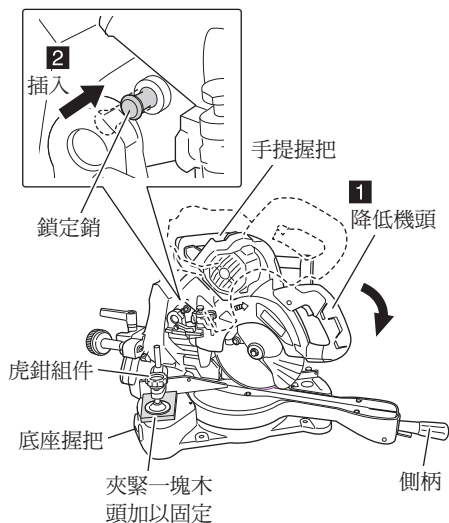


圖 63

接下來，搬運機器，用一隻手握住手提握把，另一隻手握住底座左側的握把進行支撐。

9. 作業後的存放

不使用時，請將機器和配件存放在安全且乾燥的地方，並避免將其存放在以下地方。

註：

- 兒童可以接觸到機器或配件並將其取出的地方
- 屋簷等可能會暴露在雨中的地方或潮濕處
- 溫度突然變化的地方或陽光直射處
- 含有易燃或會爆炸的揮發性物質的地方

將工具存放於溫度低於 40°C 且孩童伸手不及的地方。

註：

存放鋰離子電池

存放鋰離子電池前，確保其已完全充電。

電池在低電力的狀態下長期存放（3 個月以上），可能會導致性能劣化，電池的使用時間顯著降低或無法再進行充電。

然而，反覆將電池充電和暫停充電二至五次，可能會改善電池使用時間的顯著降低情況。

反覆充電後，若電池的使用時間仍呈現極短現象，表示電池壽命已盡，請購買新的電池。

注意

在操作和維修電動工具中，必須遵守各國的安全規則和標準規定。

HiKOKI 充電式工具電池重要注意事項

請務必使用本公司所指定的原廠電池。若未使用本公司所指定的電池，或使用經拆解及改裝的電池（例如，拆解後更換電池芯或其他內部零件），則本公司無法保證充電式工具的性能及操作安全。

註：

為求改進，本手冊所載規格可能不預先通告而徑予更改。

故障排除

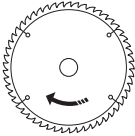
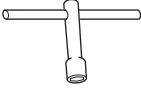

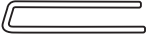
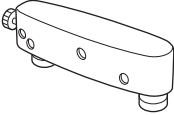

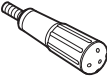

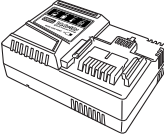

如果故障排除措施無法解決問題，請洽詢 HiKOKI 授權服務中心。
此外，電池可能是原因，因此請同時將充電器和電池帶到 HiKOKI 授權服務中心。

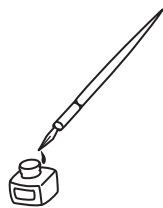
1. 工具主機

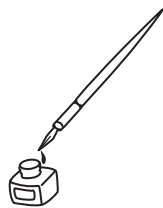
| 情況 | 可能原因 | 解決方法 |
|----------|---------------|--|
| 機器不運作 | 低電量 | 為電池充電。 |
| | 電池未牢固安裝 | 向下推電池直到其發出咔嚓聲。 |
| 機器突然停止 | 過載 | 移除重載的原因。 |
| | 電池或主機過熱 | 讓電池或主機冷卻。 |
| 不能傾斜機頭 | 夾桿沒有鬆開 | 在傾斜機頭之前鬆開夾桿。 調整鬆動的部件，然後將其擰緊。 |
| 不能向右傾斜 | 定位銷（A）沒有拉出 | 拉出定位銷（A），並將機頭向右傾斜。 |
| | 夾桿沒有鬆開 | 在傾斜機頭之前鬆開夾桿。 |
| 鋸片不能切割良好 | 鋸片磨損或有缺口 | 將鋸片換新。 |
| | 螺栓鬆動 | 牢固地擰緊螺栓。 |
| | 鋸片被顛倒安裝 | 按照正確的方向安裝鋸片。 |
| 不能準確切割 | 主機操作部件未充分固定 | 牢固地擰緊夾桿和側柄。 |
| | 材料未固定在正確的地方 | 移除擋板／回轉台上的任何異物。 |
| | | 如果材料翹曲，則可能無法將其固定在正確的位置。 將平坦的表面固定到擋板／回轉台上。 |
| 不能拉出開關 | 開關鎖未充分推入 | 將開關鎖推到底。 |
| 不能安裝電池 | 嘗試安裝指定型號以外的電池 | 請使用多伏特型電池。 |

2. 充電器

| 情況 | 可能原因 | 解決方法 |
|-----------------------|-----------------------|--|
| 充電指示燈迅速閃爍紫色，且電池不開始充電。 | 電池未完全插入。 | 牢固地插入電池。 |
| | 電池端子內或電池安裝處有異物。 | 移除異物。 |
| 充電指示燈閃爍紅色，且電池不開始充電。 | 電池未完全插入。 | 牢固地插入電池。 |
| | 電池過熱。 | 若放著不管，當電池溫度降低後就會自動開始充電，但這可能會縮短電池的壽命。建議在充電前將電池放在遠離陽光直射且通風良好的位置進行冷卻。 |
| 即使電池已充滿電，電池的使用時間仍然很短。 | 電池壽命已耗盡。 | 更換新的電池。 |
| 電池的充電時間很長。 | 電池 充電器或周圍環境的溫度非常低。 | 在室內或其他較溫暖的環境進行電池的充電。 |
| | 充電器的通風口被堵塞，造成其內部組件過熱。 | 避免堵塞通風口。 |
| | 冷卻風扇未運轉。 | 聯繫 HiKOKI 授權服務中心以進行修理。 |

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Koki Holdings Co., Ltd.

Shinagawa Intercity Tower A, 15-1, Konan 2-chome,
Minato-ku, Tokyo, Japan