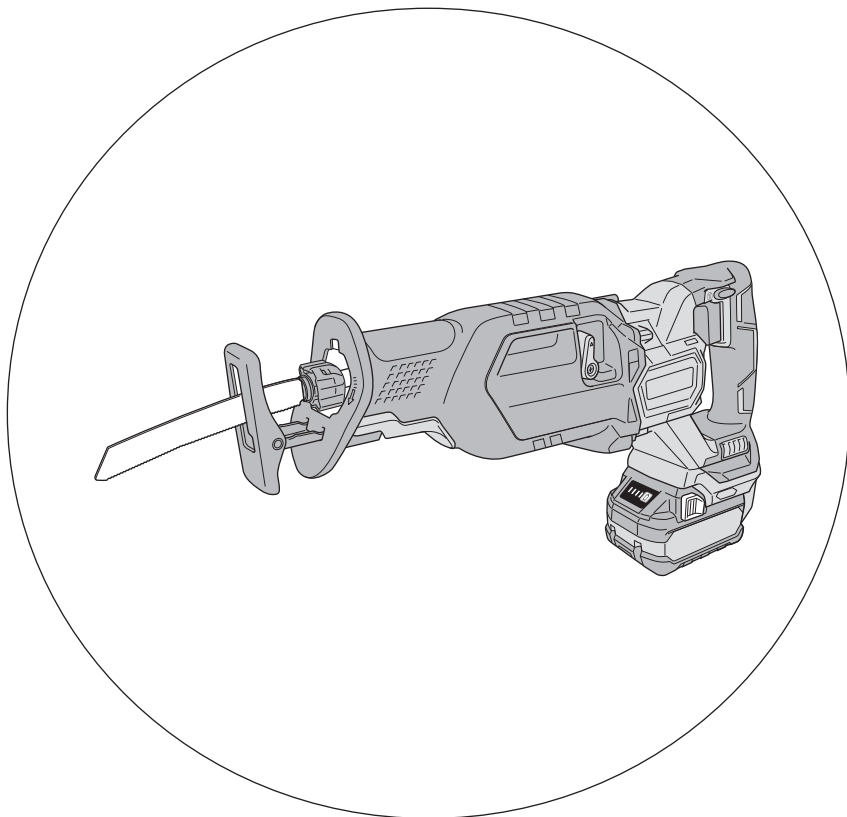
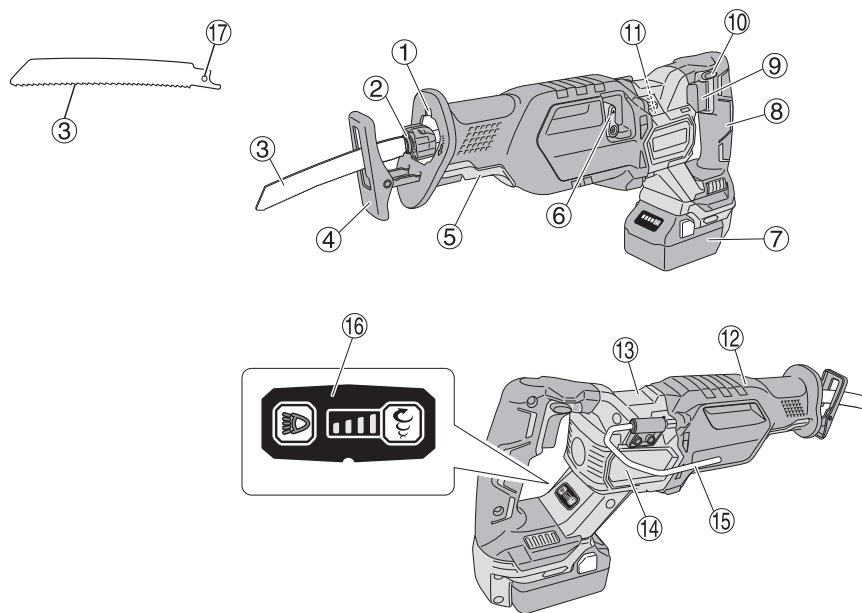


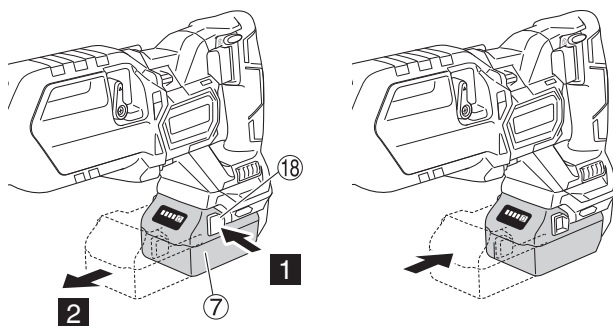
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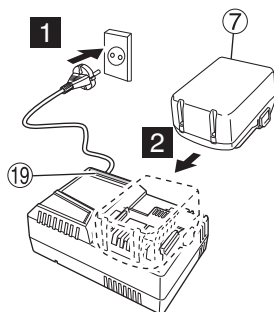
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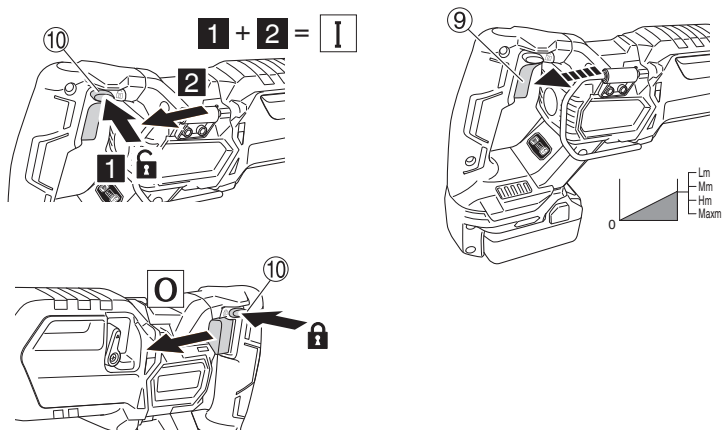
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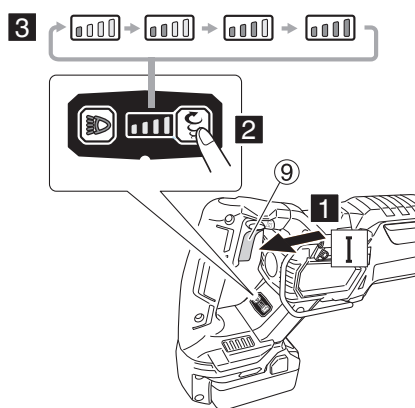
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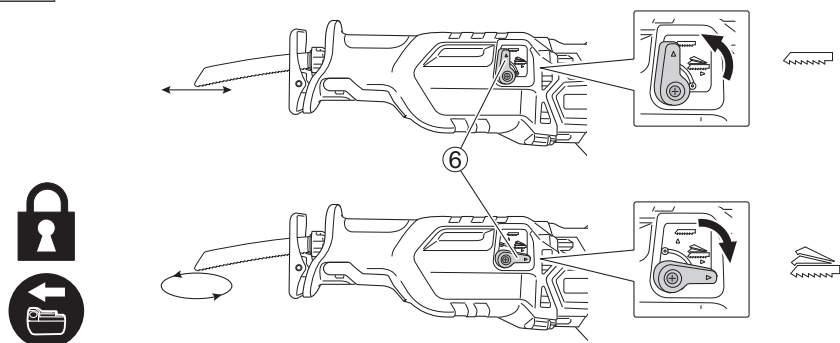
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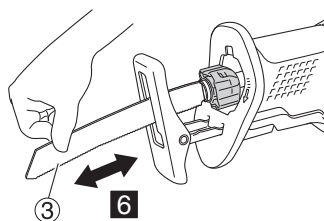
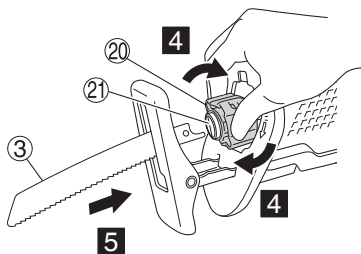
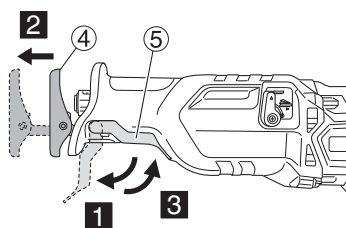
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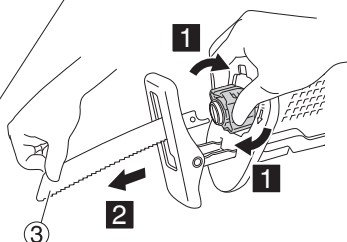
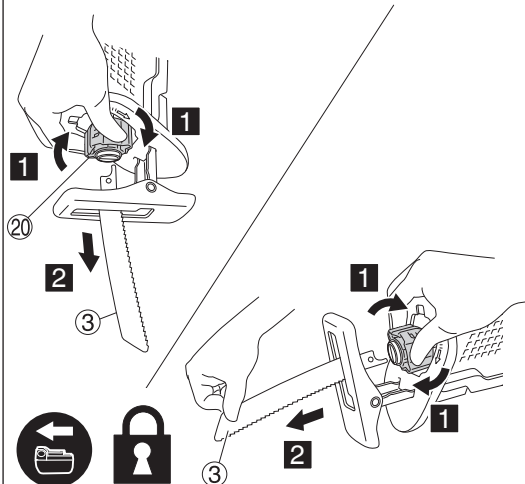
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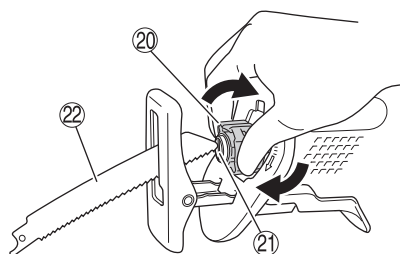
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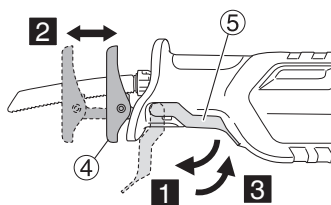
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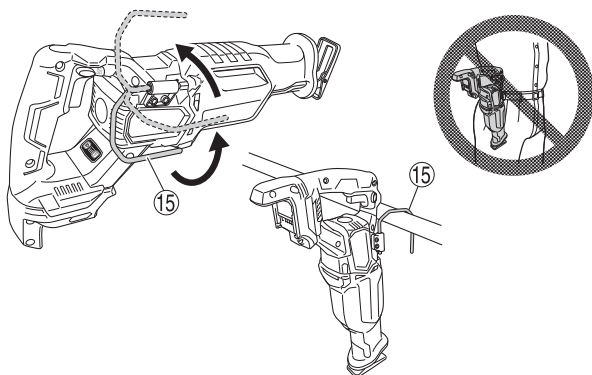
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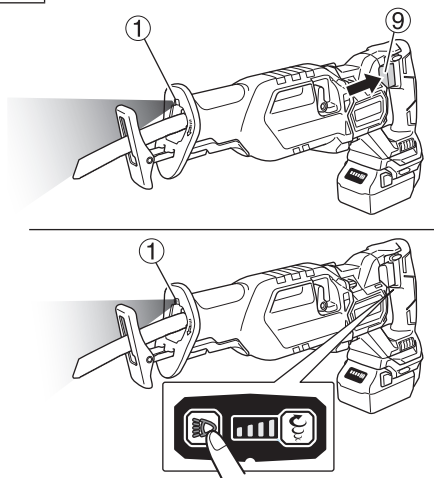
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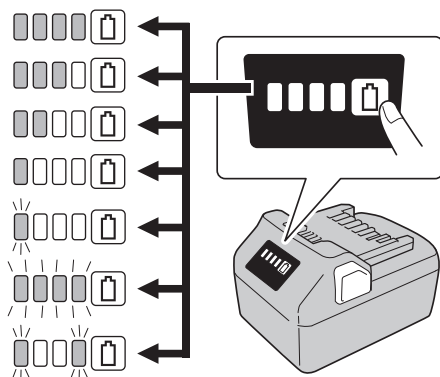
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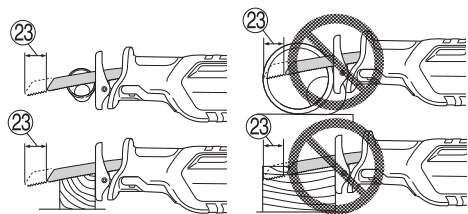
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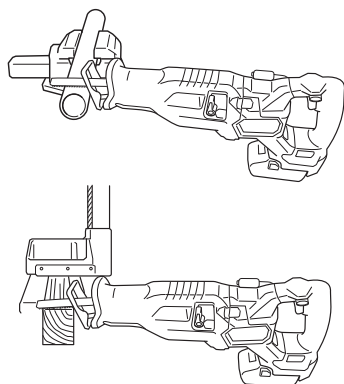
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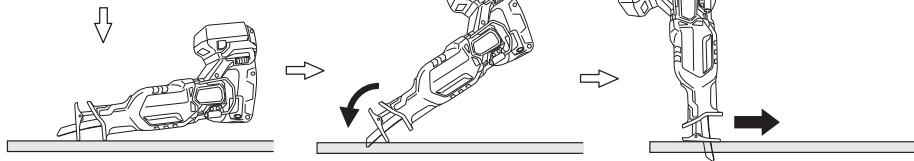
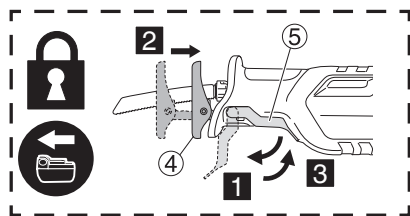


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GENERAL POWER TOOL SAFETY WARNINGS

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.**

English

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.

CORDLESS RECIPROCATING SAW SAFETY WARNINGS

1. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.

Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

ADDITIONAL SAFETY WARNINGS

1. Preparing and checking the work environment. Make sure that the work site meets all the conditions laid forth in the precautions.

2. Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
3. Never disassemble the rechargeable battery and charger.
4. 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.
5. Do not dispose of the battery in fire. If the battery is burnt, it may explode.
6. 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.
7. 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.
8. When using this unit continuously, the unit may overheat, leading to damage in the motor and switch. Therefore, whenever the housing becomes hot, give the saw a break for a while.
9. If the machine is used continuously at low speed, an extra load is applied to the motor which can result in motor seizure. Always operate the power tool so that the blade is not caught by the material during operation. Always adjust the blade speed to enable smooth cutting.
10. Always hold the body handle and front cover of the power tool firmly. Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
11. Mounting and dismounting the blade
 - Pull the back of the saw blade two or three times by hand and check that the blade is securely mounted. When pulling the blade, you will know it is properly mounted if it clicks and the lever moves slightly. (Fig. 7)
 - When pulling the saw blade, be absolutely sure to pull it from the back. Pulling other parts of the blade will result in an injury.
 - Never touch the saw blade immediately after use. The metal is hot and can easily burn your skin.
 - If the broken saw blade is hidden inside the small slit, hook the broken blade using a tip of another saw blade and take it out. (Fig. 8)
 - After use, blow away sawdust, earth, sand, moisture, etc., with air or brush them away with a brush, etc., to ensure that the blade mount can function smoothly.
 - Do not use any saw blade with a worn-out blade hole. Otherwise, the saw blade can come off, resulting in personal injury.
12. Make sure that the battery is installed firmly. If it is at all loose it could come off and cause an accident.
13. Do not fix and secure the switch lock. Besides, keep your finger off the switch trigger when the tool is being carried around. Otherwise, the main body switch can be inadvertently turned ON, resulting in unexpected accidents.
14. Be careful not to let sawdust, earth, moisture, etc., enter the inside of the machine through the plunger section during operation. If sawdust and the like accumulate in the plunger section, always clean it before use.
15. Do not remove the front cover which will cause in an injury.
 - Be sure to hold the body from the top of the front cover.
16. During use, press the base firmly against the workpiece.
17. Select a saw blade of the most appropriate length. Ideally, the length protruding from the base of the saw blade after subtracting the stroke quantity should be larger than the material.
 - If you cut a large pipe, large block of wood, etc., that exceeds the cutting capacity of a blade; there is a risk that the blade may contact with the inner wall of the pipe, wood, etc., resulting in damage. (Fig. 10)

18. Never apply any unreasonable force to the saw blade when cutting. Doing so can easily break the blade.
19. The motor can be locked sometimes, depending on the combination of the material to be cut and the blade. Whenever the motor gets locked, switch it off immediately.
20. Use clamps or another practical way to secure and support the workpiece to a stable platform. **(Fig. 11)**
Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
21. When cutting metallic materials, use an appropriate cutting fluid (spindle oil, soapy water, etc.) to prolong the blade's service life.
22. Delay the feed speed when cutting the material into small circular arcs. An unreasonably fast feed may break the blade.
23. Plunge cutting
 - Avoid plunge cutting for metallic materials. This can easily damage the blade.
 - Never pull the switch trigger while the tip of the saw blade tip is pressed against the material. If you do so, the blade can easily be damaged when it collides with the material.
 - Make absolutely sure that you cut slowly while holding the body firmly. If you apply any unreasonable force to the saw blade during the cutting operation, the blade can easily be damaged.
24. Keep the light ON during cutting operation only. If it is lit ON in other cases, the main body switch can be inadvertently turned ON, resulting in unexpected accidents.
25. Do not expose directly your eye to the light by looking into the light.
If your eye is continuously exposed to the light, your eye will be hurt.
26. Never touch moving parts.
Never place your hands, fingers or other body parts near the tool's moving parts.
27. Never operate without all guards in place.
Never operate this tool without all guards or safety features in place and in proper working order. If maintenance or servicing requires the removal of a guard or safety feature, be sure to replace the guard or safety feature before resuming operation of the tool.
28. NEVER leave tool running unattended. Turn power off.
Don't leave tool until it comes to a complete stop.
29. The power tool is equipped with a temperature protection circuit to protect the motor. Continuous work may cause the temperature of the unit to rise, activating the temperature protection circuit and automatically stopping operation. If this happens, allow the power tool to cool before resuming use.
30. Do not give a strong shock to the switch panel or break it. It may lead to a trouble.
31. 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.
32. 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.

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.

English

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.

13	Housing
14	Name plate
15	Hook
16	Switch pale
17	Blade hole
18	Latch
19	Charge indicator lamp
20	Lever
21	Slit of plunger
22	Another blade
23	Stroke

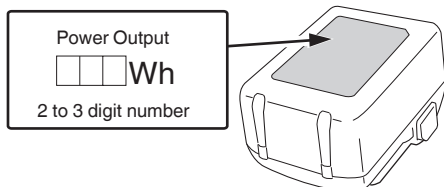
REGARDING LITHIUM-ION BATTERY TRANSPORTATION

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 100Wh 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.
- If the BSL36B18X is installed in the power tool, the power output will exceed 100 Wh and the unit will be classified as Dangerous Goods for freight classification.



SYMBOLS

WARNING

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

	CR36DA: Cordless Reciprocating Saw
	To reduce the risk of injury, user must read instruction manual.
	Direct current
	Weight
	Switching ON
	Switching OFF
	Disconnect the battery
	Lock
	Unlock
	Remaining battery indicator switch
	Mode selector switch
	Mode indicator lamp
	Low speed mode
	Medium speed mode
	High speed mode

NAMES OF PARTS (Fig. 1 – Fig. 16)

①	LED light
②	Blade holder
③	Blade
④	Base
⑤	Base lever
⑥	Change lever
⑦	Battery
⑧	Handle
⑨	Trigger switch
⑩	Lock-off button
⑪	Motor
⑫	Front cover

	Max. speed mode
	Straight mode
	Orbital mode
	Warning
	Prohibited action

Battery

	Lights ; The battery remaining power is over 75%
	Lights ; The battery remaining power is 50% – 75%.
	Lights ; The battery remaining power is 25% – 50%.
	Lights ; The battery remaining power is less than 25%
	Blinks ; The battery remaining power is nearly empty. Recharge the battery soonest possible.
	Blinks ; Output suspended due to high temperature. Remove the battery from the tool and allow it to fully cool down.
	Blinks ; Output suspended due to failure or malfunction. The problem may be the battery so please contact your dealer.

STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed on page 27.

Standard accessories are subject to change without notice.

APPLICATIONS

- Cutting metal and stainless steel pipe.
- Cutting various lumber.
- Cutting mild steel, aluminum and copper plate.
- Cutting synthetic resins, such as phenol resin and vinyl chloride.

SPECIFICATIONS

1. Power tool

Model	CR36DA	
Voltage	36 V	
No-Load Speed	0 – 3000 /min	
Stroke	32 mm	
Capacity	Mild Steel Pipe	O.D. 130 mm
	Vinyl Chloride Pipe	O.D. 130 mm
	Wood	300 mm
	Mild Steel Plate	19 mm
Battery available for this tool*	Multi volt battery	
Weight	4.5 kg (BSL36A18X) 4.8 kg (BSL36B18X)	

* Existing batteries (BSL3660/3620/3626, BSL18xx series, etc.) cannot be used with this tool.

NOTE

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

2. Battery

Model	BSL36A18X	BSL36B18X
Voltage	36 V / 18 V (Automatic Switching*)	
Battery capacity	2.5 Ah / 5.0 Ah	4.0 Ah / 8.0 Ah
	(Automatic Switching*)	
Available cordless products**	Multi volt series, 18 V product	
Available charger	Sliding charger for lithium ion batteries	

* The tool itself will automatically switch over.

** Please see our general catalogue 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. 3** (on page 2).
 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.

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.

Once you install the battery and switch on the power, you can change modes with each press of the mode selector switch.

- Speed change mode allows the number of maximum strokes to be switched between 4 levels: low speed, medium speed, high speed and Max. speed.
With speed change mode, the set number of maximum strokes will be maintained even if there is a change in load.

Operating speed

Mode	Statu	Operating speed
Transmission Mode	Low	0 – 1700 /min
	Medium	0 – 2000 /min
	High	0 – 2500 /min
	Max.	0 – 3000 /min

- *2 Dismounting the blade

CAUTION

Never touch the saw blade immediately after use. The metal is hot and can easily burn your skin.

- (1) After pivoting the lever, point the blade downward. The blade should fall out on its own. If the blade fails to fall out, pull it out by hand.
- *3 When the blade is broken
Even when the saw blade is broken and remains inside the small slit of the blade holder, it should fall out when the lever is pivoted and the blade is pointed downward. If the blade fails to fall out on its own, take it out by using the procedures described below.
 - (1) If a part of the broken saw blade is sticking out of the small slit of the blade holder, pull out the protruding part and take the blade out.
 - (2) If the broken saw blade is hidden inside the small slit, hook the broken blade using a tip of another saw blade and take it out.

- *4 How to use the Hook

The hook can be used to hang up the unit temporarily during operations.

CAUTION

The hook should never be used to hang the unit on your person.
When using the hook, check to make sure that the main unit will not slip and fall, or become unstable by the wind, etc.
Never hang the unit from your belt or trousers as this could cause accidents.

- *5 How to use the LED light

NOTE

- To prevent the battery power consumption caused by forgetting to turn off the LED light, the light goes off automatically in about 60 minutes.
- When the switch is pulled, the LED light will switch over to [Normal Use] mode.

MOUNTING AND OPERATION

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- *1 Adjusting operating speed

CAUTION

Select mode while the trigger switch is released. Failure to do so could result in malfunction.

LED LIGHT WARNING SIGNALS (Fig. 17)

This product features functions that are designed to protect the tool itself as well as the battery. While the switch is pulled, if any of the safeguard functions are triggered during operation, the LED light will blink as described in **Table 3**. When any of the safeguard functions are triggered, immediately remove your finger from the switch and follow the instructions described under corrective action.

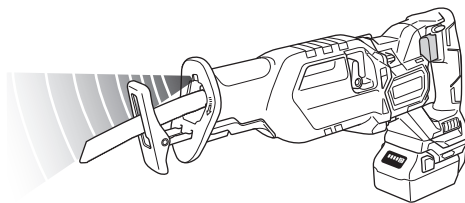




Fig. 17

Table 3

Safeguard Function	LED Light Display	Corrective Action
Overburden Protection	On 0.1 second/off 0.1 second 	Remove the cause of the overburdening.
Temperature Protection	On 0.5 second/off 0.5 second 	Allow the tool and battery to thoroughly cool.

SELECTION OF BLADES

To ensure maximum operating efficiency and results, it is very important to select the appropriate blade best suited to the type and thickness of the material to be cut.

The blade number is engraved in the vicinity of the mounting portion of each blade. Select appropriate blades by referring to **Table 4-5**.

Table 4: HCS blades

Blade No.	Uses	Thickness (mm)
No. 4	For cutting and roughing lumber	50 – 70
No. 5	For cutting and roughing lumber	Below 30
No. 95	For cutting stainless pipe less than 100 mm in diameter	Below 2.5
No. 96	For cutting stainless pipe less than 30 mm in diameter	Below 2.5

Table 5: BI-METAL blades

Blade No.	Uses	Thickness (mm)
No. 101 No. 103 No. 109 No. 141(S)	For cutting steel and stainless pipes less than 60 mm in outer diameter	2.5 – 6
No. 102 No. 104 No. 110 No. 142(S) No. 143(S)	For cutting steel and stainless pipes less than 100 mm in outer diameter	2.5 – 6
No. 107	For cutting steel and stainless pipes less than 60 mm in outer diameter	Below 3.5
No. 108	For cutting steel and stainless pipes less than 100 mm in outer diameter	Below 3.5

No. 121	For cutting and roughing lumber	100
No. 131	All purpose	100
No. 132	All purpose	100

Table 6: Selection of blades for other materials

Material to be cut	Material quality	Thickness (mm)	Blade No.
Iron plate	Mild steel plate	2.5 – 10	No. 101, 102, 103, 104, 109, 110, 131, 141(S), 142(S), 143(S)
		Below 3.5	No. 107, 108
Nonferrous metal	Aluminium, Copper and Brass	5 – 20	No. 101, 102, 103, 104, 109, 110, 131, 132, 141(S), 142(S), 143(S)
		Below 5	No. 107, 108
Synthetic resin	Phenol resin, Melamine resin, etc.	10 – 50	No. 101, 102, 103, 104, 131, 132, 141(S), 142(S), 143(S)
		5 – 30	No. 107, 108, 109, 110
	Vinyl chloride, Acrylic resin, etc.	10 – 60	No. 101, 102, 103, 104, 131, 132, 141(S), 142(S), 143(S)
		5 – 30	No. 107, 108, 109, 110

MAINTENANCE AND INSPECTION

CAUTION

Be sure to turned off the switch and remove the battery before maintenance and inspection.

1. Inspecting the blade

Continued use of a dull or damaged blade will result in reduced cutting efficiency and may cause overloading of the motor. Replace the blade with a new one as soon as excessive abrasion is noted.

2. Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.

3. Maintenance of the motor

The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

4. Inspection of terminals (tool and battery)

Check to make sure that swarf and dust have not collected on the terminals.

On occasion check prior, during and after operation.

CAUTION

Remove any swarf or dust which may have collected on the terminals.

Failure to do so may result in malfunction.

5. Cleaning on the outside

When the power tool is stained, wipe with a soft dry cloth or a cloth moistened with soapy water. Do not use chloric solvents, gasoline or paint thinner, for they melt plastics.

6. Storage

Store the power tool in a place in which the temperature is less than 40°C and out of 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

Use the inspections in the table below if the tool does not operate normally. If this does not remedy the problem, consult your dealer or the HIKOKI Authorized Service Center.

1. Power tool

Symptom	Possible cause	Remedy
Tool doesn't run	No remaining battery power	Charge the battery.
	Battery isn't fully installed.	Push the battery in until you hear a click.
Tool suddenly stopped	Tool was overburdened	Get rid of the problem causing the overburden. During operation, lighten the applied pressure.
	Battery or tool overheated	Allow the tool and battery to thoroughly cool.
	The trigger switch was held down for 5 minutes or more.	This is not a malfunction. The motor was automatically stopped to prevent failure of the tool.
Saw blade - can't be attached - fall off	The shape of the attachment portion doesn't match	Use the appropriate blade (See "Selecting accessories")
	The blade's attachment hole is worn	Replace with a new blade.
Switch can't be pulled	Lock-off button is pushed in	Release the Lock-off button.
An abnormal high-pitched noise occurs when the trigger switch is pulled.	The trigger switch is being pulled only slightly.	This is not a malfunction. It does not occur if the trigger switch is pulled more fully.

English

Symptom	Possible cause	Remedy
Blade wears out too quickly.	Number of strokes is too fast Mode is inappropriate	Switch the mode to a lower setting than the current one. (Switch to low speed mode when cutting stainless pipes) (See "Adjusting operating speed")
	Proper machine oil not used when cutting metallic materials	Use machine oil (turbine oil, etc.)
	Too much applied pressure during operation	During operation, lighten the applied pressure.
Unable to properly cut.	Blade is inappropriate for the quality and thickness of the material to be cut	Use the proper blade (See "Selecting accessories")
	Blade is too short for the length of the material to be cut	
	Mode is inappropriate for the quality and thickness of the material to be cut	Set the appropriate mode (See "Adjusting operating speed")
	Blade is worn, degraded or damaged	Replace with a new blade.
Battery cannot be installed	Attempting to install a battery other than that specified for the tool.	Please install 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

閱讀所有安全警告說明

未遵守警告與說明可能導致電擊、火災或其他嚴重傷害。

請妥善保存本使用說明書，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，確保兒童及過往人員遠離。
分神會讓您失去控制。

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。
- 避免身體接觸到地面，諸如管子、散熱器、爐灶及冰箱。
如果您的身體接地或觸地，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。請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，請務必使用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，請使用以漏電斷路器 (RCD) 來保護電源。
使用 RCD，可降低觸電危險。

3) 人員安全

- 保持機警，注意您正在做什麼，並運用正確常識操作電動工具。
當你感到疲勞或受藥品、酒精或醫療影響時，請勿操作電動工具。
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。
 - 防止意外發生。在連接電源或電池組、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。
保持你的頭髮、衣服及手套遠離轉動部位。
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您所需。
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或關的位置，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。
 - 進行任何調整、更換配件或收存電動工具時，必須將插頭與電源分開，且需將電池組從電動工具中取出。
此種預防安全措施，可減少意外開啟電動工具之危險。
 - 收存停用之電動工具，需遠離兒童，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，檢查是否可動零件有錯誤的結合或卡住、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) 電池式電動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) 當電池組不再使用時，需保存好並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電動工具。
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) 請勿使電池組或電動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電動工具充電。
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) 讓您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維修店進行。

注意事項

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

充電式水平鋸安全警告

1. 進行切割配件可能接觸到暗線的操作時，請握著電動工具的絕緣手柄表面。
接觸到“通電”電線的切割配件可能使電動工具的金屬零件“通電”，而造成操作人員觸電。

附加安全警告

1. 準備和檢查工作環境。確保工作場所符合注意事項中所規定的全部條件。
2. 勿讓雜質進入充電電池連接口內。
3. 切勿拆卸充電電池與充電器。
4. 切勿使充電電池短路。
電池短路將會造成很大的電流和過熱，從而燒壞電池。
5. 請勿將電池丟入火中。電池受熱會爆炸。
6. 充電後電池壽命若太短不夠使用，請儘快將電池送往經銷店。不可將用過的電池丟棄。
7. 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，將引起觸電事故或使充電器受損。
8. 連續使用本機時，鋸鑽可能出現過熱而導致馬達和開關損壞。因此，每當機殼變熱時，讓水平鋸休息一會兒。
9. 如果以低速連續使用機器，會對馬達施加額外負載，從而導致馬達卡住。在操作電動工具的過程中，應使鋸片全程不被材料卡住。全程調整鋸片速度以實現滑順的切割。
10. 全程緊握電動工具的操作柄和前罩。否則，所產生的反作用力會將孔鑽歪，甚至會造成危險。
11. 鋸片的裝卸
 - 用手試著拉刀刀背兩三次，以確認刀刀已安裝牢固。拉刀刀背時，若它發出喀嗒聲並手柄稍位移則說明已正確安裝。(圖 7)
 - 拉刀刀時，請務必拉刀刀背。拉刀刀的其他部位會導致受傷。
 - 切勿在使用後立即觸摸刀刀，否則因金屬的溫度尚高，很容易燙傷皮膚。
 - 若破損刀刀隱藏在小縫隙內，請用另一枚刀刀的尖端勾住破損刀刀並將其取出。(圖 8)
 - 使用後，用氣刷等吹掉鋸屑、灰塵、沙粒和水等，以確保刀刀能正常工作。
 - 請勿使用帶有磨損刀刀孔的刀刀。否則，刀刀可能會掉下，導致人員受傷。

12. 確保電池安裝牢固。如果有鬆動，可能會脫落而造成事故。
13. 請勿固定、弄牢開關鎖。此外，攜帶本工具時，請保持手指離開扳機開關。否則，主機身開關可能會無意中被開啟而導致意外事故。
14. 在作業中請小心勿使鋸屑、灰塵、水等通過柱塞部份進入機內。若鋸屑等積於柱塞部份，請務必在使用前加以清除。
15. 請勿移除前罩，否則將導致受傷。務必從前罩的頂部握住機身。
16. 在使用過程中，將底座牢固地壓在工件上。
17. 請選擇長度最適當的刀刃。理論上，減去行程量後從刀刃座突出的刀刃長度應大於材料。
若切鋸超過刀刃切鋸能力的大工件、大木塊等，刀刃可能會接觸到管內壁和木料等，從而發生危險。(圖 10)
18. 切鋸時請勿給刀刃施加異常力量。否則很容易損壞刀刃。
19. 取決於要切割的材料和鋸片的組合，馬達有時可能會被鎖住。每當馬達被鎖住時，立即將其關機。
20. 使用夾具或其他可實施的方式將工件固定並支撐在穩定的平台上。(圖 11)
用手握住工件或用身體抵住工件會使其不穩定，並可能導致失去控制。
21. 切割金屬材料時，請使用合適的切削液（錠子油、肥皂水等）以延長鋸片的使用壽命。
22. 將材料切割成小圓弧時延遲進給速度。不合理的快速進給可能會使鋸片斷裂。
23. 插入切鋸
 - 避免插入切鋸金屬材料。這很容易損壞鋸片。
 - 切勿在鋸片尖端壓在材料上時拉開扳機開關。否則，當鋸片接觸材料時很容易損壞。
 - 確保在緊握機身的同時緩慢切割。如果在切割過程中對鋸片施加任何不合理的力量，鋸片很容易損壞。
24. 僅在切割操作期間保持燈亮。如果在其他情況亮燈，主機身開關可能會無意中被開啟而導致意外事故。
25. 請勿讓眼睛直視光線。
若眼睛持續接觸到光線，會造成您雙眼的傷害。
26. 切勿觸摸移動中的部件。
切勿將手、手指或其他身體部位靠近工具的移動中的部件。
27. 切勿在所有護罩未安裝在正確位置的情況下操作。
切勿在所有護罩或安全裝置未安裝在正確位置且未處於正確運作順序的情況下操作本工具。如果維護或維修需要拆除護罩或安全裝置，請務必在恢復工具操作之前放回護罩或安全裝置。
28. 切勿讓工具處於無人看守的狀態。關閉電源。
在完全停止之前不要離開工具。

29. 本電動工具配備有溫度保護電路以保護馬達。連續作業可能會造成工具的溫度上升，啟動溫度保護電路並自動停止操作。如果發生這種情況，請在恢復使用前讓電動工具冷卻。
30. 請勿對開關面板施加強烈的衝擊或將其折斷。這可能會引發問題。
31. 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。
32. 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。

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。

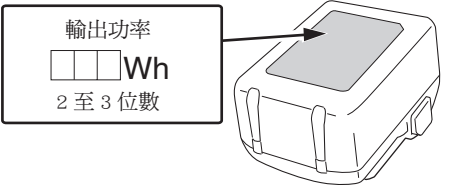
關於鋰離子電池的運輸

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 100Wh 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。
- 如果 BSL36B18X 安裝在電動工具中，則功率輸出將超過 100 Wh，且本機將被歸類為貨運分類的危險貨物。



各部位名稱（圖 1 - 圖 16）

①	LED 燈
②	鋸片座
③	鋸片
④	底座
⑤	底座桿
⑥	選擇桿
⑦	電池
⑧	握把
⑨	扳機開關
⑩	鎖定按鈕
⑪	馬達
⑫	前罩
⑬	機殼
⑭	銘牌
⑮	掛鉤
⑯	開關面板
⑰	鋸片孔
⑱	卡榫
⑲	充電指示燈
⑳	手柄
㉑	柱塞縫
㉒	其他鋸片
㉓	行程

符號

警告

以下為使用於本機器的符號。請確保您在使用前明白其意義。

	CR36DA: 水平鋸
	使用前請詳讀使用說明書
	直流電流
	重量

	開關 ON
	開關 OFF
	取出電池
	鎖定
	解鎖
	電池剩餘量指示開關
	模式選擇器開關
	模式指示燈
	低速模式
Lm	
	中速模式
Mm	
	高速模式
Hm	
	最高速模式
Maxm	
	直線模式
	軌道模式
	警告
	禁止操作

電池

	亮起： 電池剩餘電量超過 75%。
	亮起： 電池剩餘電量為 50% - 75%。
	亮起： 電池剩餘電量為 25% - 50%。
	亮起： 電池剩餘電量少於 25%。
	閃爍： 電池剩餘電量幾近零。請盡快進行充電。
	閃爍： 由於高溫導致輸出被暫停。從工具中取出電池，並使其完全冷卻。
	閃爍： 由於故障或機能失常導致輸出被暫停。問題可能是電池，請聯繫您的經銷商。

標準附件

除了主機身(1 台)以外，包裝盒內包含第 27 頁所列之附件。

標準附件可能不預先通告而徑予更改。

用途

- 切割金屬和不銹鋼管。
- 切割各種木材。
- 切割軟鋼板、鋁板和銅板。
- 切割酚醛樹脂、氯乙烯等合成樹脂。

規格

1. 電動工具

機型	CR36DA	
電壓	36 V	
無負荷速度	0 - 3000 /min	
行程	32 mm	
能力	軟鋼管	外徑 130 mm
	氯乙烯管	外徑 130 mm
	木材	300 mm
	軟鋼板	19 mm
可用於本工具的電池 *		多伏特電池
重量		4.5 kg (BSL36A18X)
		4.8 kg (BSL36B18X)

* 本工具不能使用現有的電池 (BSL3660/3620/3626、BSL18xx 系列)。

註：

為求改進，HiKOKI 本手冊所載規格可能不預先通告而徑予更改。

2. 電池

機型	BSL36A18X	BSL36B18X
電壓	36 V / 18 V (自動切換 *)	
電池容量	2.5 Ah / 5.0 Ah	4.0 Ah / 8.0 Ah
	(自動切換 *)	
可用的充電式產品 **	多伏特系列，18V 產品	
可用的充電器	鋰離子電池用滑動式充電器	

* 工具本身將自動切換。

** 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. 將充電器的電源線連接到插座。
當充電器的插頭連接到插座時，充電信號燈會閃爍紅燈（間隔為 1 秒）。
2. 將電池裝入充電器。
將電池確實插入充電器如 圖 3（第 2 頁）所示。

3. 充電
當電池插入充電器時，充電信號燈會閃爍藍燈。
當電池完全充電時，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)	
	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) ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ (間歇的蜂鳴聲：約 2 秒)	電池或充電器故障

- (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℃ - 50℃				
	充電電壓	V	14.4		18		
	充電時間， 約（於 20℃） 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 BSL36A18X : 32 BSL36B18 : 52 BSL36B18X : 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。

安裝和操作

動作	圖表	頁數
拆卸和安裝電池	2	2
充電	3	2
開關操作	4	3
調整運作速度 *1	5	3
調整行程	6	3
安裝鋸片	7	4
拆卸鋸片 *2	8	4
鋸片斷裂時 *3	9	4
調整底座	10	4
如何使用掛鉤 *4	11	5

如何使用 LED 燈 *5	12	5
電池剩餘量指示器	13	5
選擇適當長度的鋸片	14	5
牢牢地固定工件	15	5
插入切鋸（木材用）	16	6
選擇附件	—	28

*1 調整運作速度

注意

在扳機開關釋放時選擇模式。否則可能會導致故障。

一旦安裝了電池並打開電源，則可以在每次按下模式選擇器開關時更改模式。

● 變速模式允許最大行程數在 4 個級別之間切換：

低速、中速、高速和最高速。

使用變速模式時，即使負載發生變化，也會保持設定的最大行程數。

運作速度

模式	狀態	運作速度
傳輸模式	低速	0 - 1700 /min
	中速	0 - 2000 /min
	高速	0 - 2500 /min
	最高速	0 - 3000 /min

*2 拆卸鋸片

注意

切勿在使用後立即觸碰鋸片。金屬很燙，很容易燙傷您的皮膚。

(1) 轉動手柄後，將鋸片朝下。鋸片應該會自行脫落。如果鋸片不能脫落，請用手將其拉出。

*3 鋸片斷裂時

即使鋸片斷裂並殘留在鋸片座的小狹縫裡時，當轉動手柄並將鋸片朝下時，鋸片應該會脫落。如果鋸片不能自行脫落，請使用下述步驟將其取出。

(1) 如果斷裂的鋸片的一部分從鋸片座的小狹縫伸出，請拉出突出的部分並取出鋸片。

(2) 如果斷裂的鋸片隱藏在小狹縫內，則用另一個鋸片的尖端鉤住斷裂的鋸片並將其取出。

*4 如何使用掛鉤

掛鉤可以用來在操作期間暫時吊掛本機。

注意

切勿使用掛鉤將本機吊掛在您身上。

使用掛鉤時，請檢查以確保主機身不會滑落，或因風等原因而不穩定等。

切勿將本機吊掛在腰帶或褲子上，否則可能會導致事故。

表 6: 選擇用於其他材料的刀刃

切鋸材料	材料性質	厚度 (mm)	刀刃號碼
鐵板	軟鋼板	2.5 – 10	101、102、103、104、109、110、131、141(S)、142(S)、143(S) 號
		3.5 以下	107、108 號
有色金屬	鋁、銅屬和黃銅	5 – 20	101、102、103、104、109、110、131、132、141(S)、142(S)、143(S) 號
		5 以下	107、108 號
合成樹脂	苯酚樹脂、蜜胺甲醛樹脂等	10 – 50	101、102、103、104、131、132、141(S)、142(S)、143(S) 號
		5 – 30	107、108、109、110 號
	聚氯乙稀樹脂、丙烯酸樹脂等	10 – 60	101、102、103、104、131、132、141(S)、142(S)、143(S) 號
		5 – 30	107、108、109、110 號

維護和檢查

注意

進行維修和檢查之前，務必要關閉開關，並取出電池。

1. 檢查刀刃

如繼續使用已鈍了的或已損壞了的刀刃，會降低工作效率並可能會引起馬達超負荷。因此，一旦注意到刀刃磨損，請立即用新刀刃更換之。

2. 檢查安裝螺釘

要經常檢查安裝螺釘是否緊固妥善。若發現螺釘鬆了，應立即重新扭緊，否則會導致嚴重的事故。

3. 電動機的維護

電動機繞線是電動工具的心臟部。應仔細檢查有無損傷，是否被油液或水沾濕。

4. 端子的檢查（工具和電池）

檢查以確保端子上沒有堆積削屑和灰塵。
有時於操作前、操作期間和操作後檢查。

注意

去除任何可能已堆積在端子上的削屑或灰塵。
否則可能會導致故障。

5. 清理外部

電動工具髒汙時，請使用乾淨軟布或沾肥皂水的布擦拭。切勿使用氯溶液、汽油或稀釋劑，以免塑膠部分溶化。

6. 收藏

電動工具應收藏於溫度低於 40℃ 而為小孩拿不到的地方。

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。

疑難排解





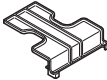
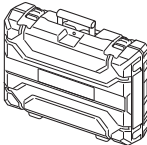
若電動工具無法正常運作，請參閱下表的檢查項目。若問題仍無法解決，請洽當地經銷商或 HiKOKI 所認可的維修中心。

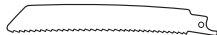
1. 電動工具

情況	可能原因	解決方法
工具無法運轉	無剩餘電池電量	為電池充電。
	電池未安裝牢固。	推動電池直至聽到咔嚓一聲。
工具突然停止	工具負擔過重	除去造成工具負擔過重的問題。 在操作過程中，減輕施加的壓力。
	電池或工具過熱	使工具和電池徹底冷卻。
	扳機開關已被按住 5 分鐘以上。	這不是故障。 馬達為防止工具故障而自動停止。
鋸片 - 無法安裝 - 脫落	安裝部位的形狀不相配	使用適合的鋸片 (請參閱「選擇附件」)
	鋸片的安裝孔已磨損	將鋸片換新。
開關無法拉動	鎖定按鈕被推入	釋放鎖定按鈕。
拉動扳機開關時產生異常尖銳的噪音。	扳機開關僅被稍微拉動。	這不是故障。 充分拉動扳機開關就不會產生該噪音。
鋸片磨損太快。	行程數太快 模式不適合	將模式切換到比當前設定更低的設定。 (切割不銹鋼管時切換到低速模式) (請參閱「調整運作速度」)
	切割金屬材料時未使用適合的機油	使用機油(渦輪機油等)
	操作過程中施加的壓力太大	在操作過程中，減輕施加的壓力。
無法正確切割。	鋸片不適合要切割的材料的品質和厚度	使用適合的鋸片 (請參閱「選擇附件」)
	鋸片對於要切割的材料的長度來說太短	
	模式不適合要切割的材料的品質和厚度	設定適合的模式 (請參閱「調整運作速度」)
	鋸片磨損、劣化或損壞	將鋸片換新。
電池無法安裝	試圖安裝非該工具所指定的電池。	請安裝多伏特型電池。

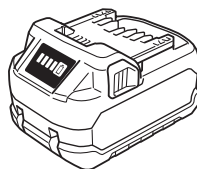
2. 充電器

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。

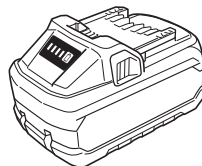
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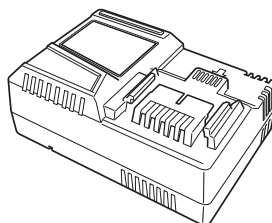
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No.107	318617
No.108	318618
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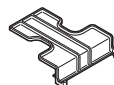
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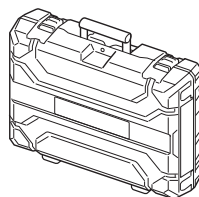
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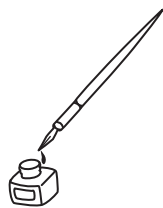
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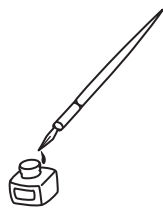


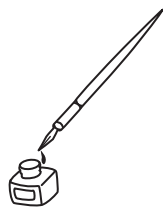
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