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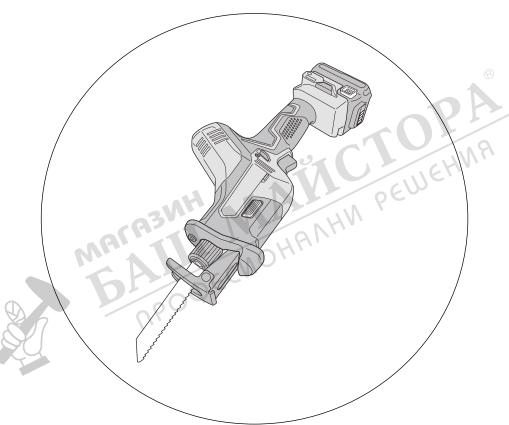
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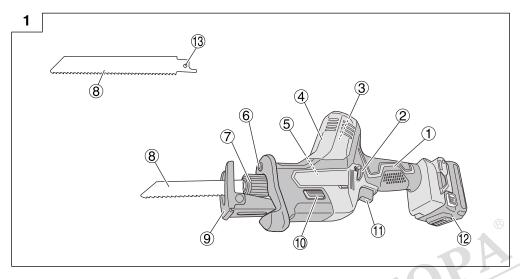
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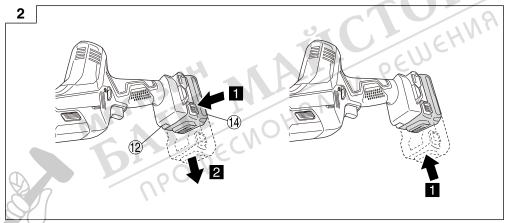
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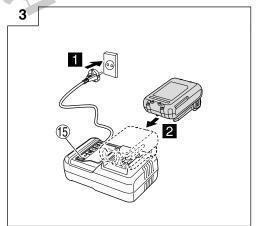


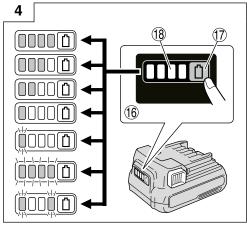


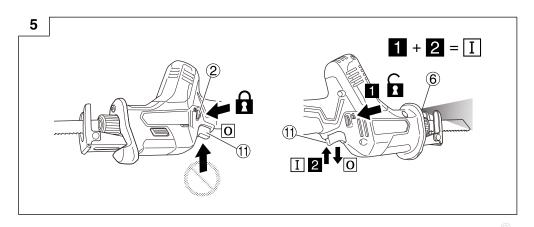
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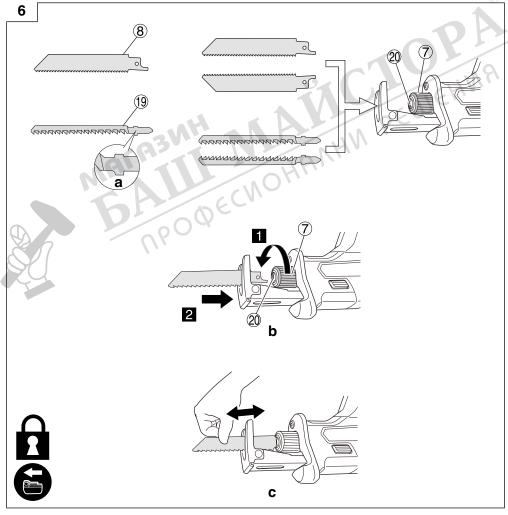


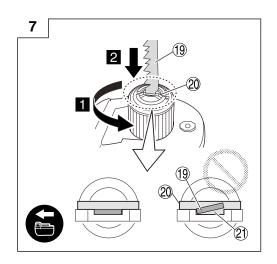


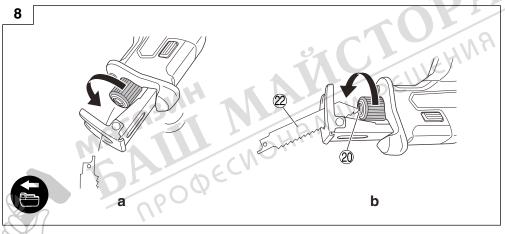


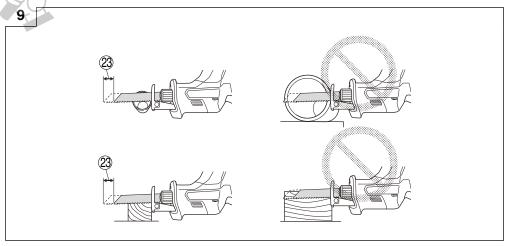


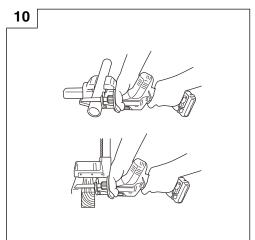


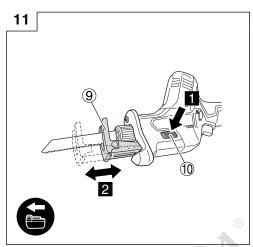


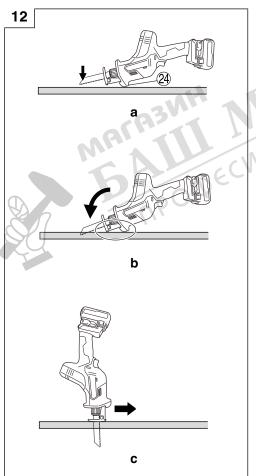


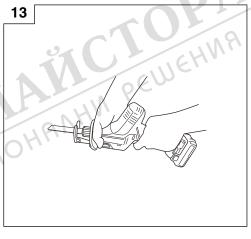












GENERAL POWER TOOL SAFETY WARNINGS

⚠ 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 mainsoperated (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.

 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.

 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.

 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.
Lise of dust collection can refuse dust related.

Use of dust collection can reduce dust-related hazards.

 b) 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

 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

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

 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

 Hold the 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.

Use clamps or another practical way to secure and support the workpiece to a stable platform.

Holding the workpiece by hand or against your body leaves it unstable and may lead to loss of control.

ADDITIONAL SAFETY WARNINGS

- Preparing and checking the work environment. Make sure that the work site meets all the conditions laid forth in the precautions.
- Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
- Never disassemble the rechargeable battery and charger.
- 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.
- Do not dispose of the battery in fire. If the battery is burnt, it may explode.
- 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.
- 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.
- 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.
- 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 housing of the power tool firmly as shown in Fig. 13. Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
- 11. Mounting and dismounting the blade
- O 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 blade holder moves slightly. (Fig. 6-c)
- 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.
- O 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-b)
- 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.

Be sure to hold the body from the top of the front cover.

15. During use, press the base firmly against the workpiece.
16. 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.

English

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. 9)

17. Never apply any unreasonable force to the saw blade when cutting. Doing so can easily break the blade.

- 18. 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.
- 19. Use clamps or another practical way to secure and support the workpiece to a stable platform. (Fig. 10) Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- When cutting metallic materials, use an appropriate cutting fluid (spindle oil, soapy water, etc.) to prolong the blade's service life.
- Delay the feed speed when cutting the material into small circular arcs. An unreasonably fast feed may break the blade.
- 22. 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.
- 23. 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.
- 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.
- 25. Never touch moving parts.
 - Never place your hands, fingers or other body parts near the tool's moving parts.
- 26. 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.
- 27. NEVER leave tool running unattended. Turn power off. Don't leave tool until it comes to a complete stop.
- 28. 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.
- 29. Do not give a strong shock to the switch panel or break it. It may lead to a trouble.
- 30. 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.
- 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.
- O During use, try to avoid swarf or dust on the tool from falling on the battery.
- O 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.

- When the battery power remaining runs out, the motor stops.
 In such a case, charge it up immediately.
- 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.
- 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.

- 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.).
- 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.
- Do not connect directly to an electrical outlets or car cigarette lighter sockets.
- Do not use the battery for a purpose other than those specified.
- If the battery charging fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
- Do not put or subject the battery to high temperatures or high pressure such as into a microwave oven, dryer, or high pressure container.
- Keep away from fire immediately when leakage or foul odor are detected.
- 10. Do not use in a location where strong static electricity
- 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

 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.

- 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.
- 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.

- O 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.

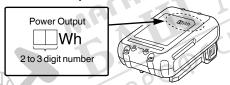
REGARDING LITHIUM-ION BATTERY TRANSPORTATION

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.



NAMES OF PARTS (Fig. 1 - Fig. 13)

1	Handle	13	Blade hole
2	Lock-off button		Latch
3	Motor	15	Pilot lamp
4	Housing	16	Display panel
⑤	Name plate	17	Remaining battery indicator switch
6	LED light	18	Remaining battery indicator lamp
7	Blade holder	19	Jigsaw blade
8	Blade	20	Slit of plunger
9	Base	21)	Cavity
10	Base lock button	22	Another blade
111	Trigger switch	23	Stroke
12	Battery	24)	Collar

SYMBOLS

WARNING

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

sure that you understand their meaning before use.			
	CR12DA: Cordless Reciprocating Saw		
(3)	To reduce the risk of injury, user must read instruction manual.		
===	Direct current		
I	Switching ON		
0	Switching OFF		
	Disconnect the battery		
a	Lock		
£	Unlock		
\triangle	Warning		
0	Prohibited action		

Battery

		Remaining battery indicator switch			
	00000	Lights; The battery remaining power is over 75%			
Lights; The battery remaining power is 50% – 75%.					
	00000	Lights; The battery remaining power is 25% – 50%.			
	00000	Lights; The battery remaining power is less than 25%			
	<u>(†10000</u>	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.			
	<u>(†100</u>	Blinks; Output suspended due to failure or malfunction. The problem may be the battery so please contact your dealer.			

NOTE

To prevent the battery power consumption caused by forgetting to turn off the LED light, the light goes off automatically in about 3 seconds.

STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed on page 58.

Standard accessories are subject to change without notice.

APPLICATIONS

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

SPECIFICATIONS

ed	CR12DA 12 V 0 – 3200 /min	
ed		
ed	0 – 3200 /min	
	13 mm	
ild Steel Pipe	O.D. 50 mm	
inyl Choride ipe	O.D. 50 mm	
ild Steel Plate	12 mm	
/ood	50 mm	
	1.4 kg (BSL1225M)	
	inyl Choride ipe ild Steel Plate	

NOTE

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

CHARGING

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

- Connect the charger's power cord to the receptacle.
 When connecting the plug of the charger to a receptacle, the pilot 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, charging will commence and the pilot lamp will light continuously in red

When the battery becomes fully recharged, the pilot lamp will blink in red. (At 1-second intervals) (See **Table 1**)

Pilot lamp indication

The indications of the pilot lamp will be as shown in **Table 1**, according to the condition of the charger or the rechargeable battery.

Table 1

Indications of the pilot lamp				
	Before charging	Blinks	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds)	enen.
	While charging	Lights	Lights continuously	
Pilot lamp (red)	Charging complete	Blinks	Lights for 0.5 seconds. Does not light for 0.5 seconds. (off for 0.5 seconds)	
	Overheat standby	Blinks	Lights for 1 second. Does not light for 0.5 seconds. (off for 0.5 seconds)	Battery overheated. Unable to charge. (Charging will commence when battery cools)
En	Charging impossible	Flickers	Lights for 0.1 seconds. Does not light for 0.1 seconds. (off for 0.1 seconds)	Malfunction in the battery or the charger

 Regarding the temperatures and charging time of the battery.

The temperatures and charging time will become as shown in **Table 2**.

Table 2

Battery	Charger	UC12SL
Charging voltage V		10.8 – 12 Peak
Type of battery	Li-ion	
Temperatures at which the battery can be recharged		0°C – 50°C
Charging time for battery capacity, approx.(At 20°0		
1.5 Ah 2.5 Ah 4.0 Ah	min. min.	22 (3 cells) 37 (3 cells) 60 (3 cells)

NOTE

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

In addition, the charge time becomes significantly long in a low temperature environment, but this is not abnormal.

CAUTION

When the battery charger has been continuously used, the battery charger will be heated, thus constituting the cause of the failures. Once the charging has been completed, give 15 minutes rest until the next charging.

- 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.

CAUTION

- O 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 pilot lamp of the charger lights for 1 second, does not light for 0.5 seconds (off for 0.5 seconds). In such a case, first let the battery cool, then start charging.
- O When the pilot 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.
- O Since the built-in micro computer takes about 3 seconds to confirm that the battery being charged with charger 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.
- If the pilot lamp does not blink in red (every second) even though the charger cord is connected to the power, it indicates that the protection circuit of the charger may be activated

Remove the cord or plug from the power and then connect it again after 30 seconds or so. If this does not cause the pilot lamp to blink in red (every second), please take the charger to the HiKOKI Authorized Service Center.

MOUNTING AND OPERATION

Action	Figure	Page
Removing and inserting the battery*1	2	2
Charging	3	2
Remaining battery indicator	4	2
Switch Operation	5	3
Mounting the blade*2	6	3
Mounting the Jigsaw blade*3	7	4
Dismounting the blade*4	8-a	4
Select a saw blade of the appropriate length	9	4
Fasten a workpiece firmly	10	5
Adjusting the base	11	5
Plunge cutting (for wood)*5	12	5
Selecting accessories	_	59

- *1 Make sure that the battery is installed firmly. If it is at all loose it could come off and cause an accident.
- *2 Mounting the blade
 - (1) Turning the blade holder in the direction indicated by the arrow, insert the blade all the way into the small slit of the blade holder. (Fig. 6-b)
 - (2) The blade will be locked in place when the blade holder is released.
 - The blade can be attached facing up or down depending on the operation.
 - (3) Pull the back of the saw blade two or three times by hand and check that the blade is securely mounted. (Fig. 6-c)

NOTE

The blade can be mounted without fitting it into the base. However, in this case, always make sure that the base is attached to the tool after mounting the blade.

- *3 Mounting the jigsaw blade (sold separately)
 - A T-shank jigsaw blade can be used with this product. (Fig. 6-a)
 - Mounted in the same manner as a reciprocating saw blade. Make sure that the shank of the blade is fitted into the center cavity. (Fig. 7)
 - Pull the back of the saw blade two or three times by hand and check that the blade is securely mounted. (Fig. 6-c)

*4 Dismounting the blade

CAUTION

- Never touch the saw blade immediately after use. The metal is hot and can easily burn your skin.
- After turning the blade holder, point the blade downward.
 The blade should fall out on its own. If the blade fails to fall out, pull it out by hand.

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 blade holder is turned, 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.

- 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. (Fig. 8-b)

*5 Plunge cutting (for wood) **NOTE**

- Using the collar or the base as support, gradually cut in from the tip of the blade.
- As the base is metal, using it for support may scratch or damage the surface depending on the material being cut. In this case, use the collar as support. If you remove the base when window cutting, make sure it is re-attached to the tool when you continue operating the tool

LED LIGHT WARNING SIGNALS (Fig. 14)

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.

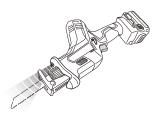


Fig. 14

Table 3

Safeguard Function	LED Light Display	Corrective Action
Overload Protection		Remove the cause of the overload.
Temperature Protection	On 0.25 second/off 0.25 second	Allow the tool and battery to thoroughly cool.
Low Voltage Protection		Recharge the battery.

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. 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.

5. 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.