

# HITACHI

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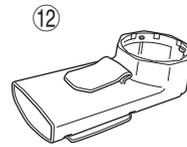
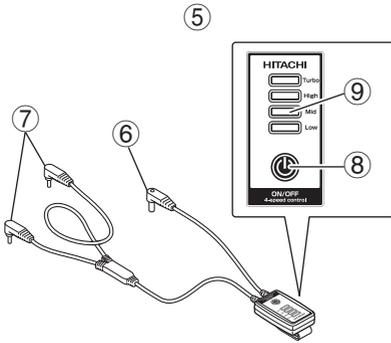
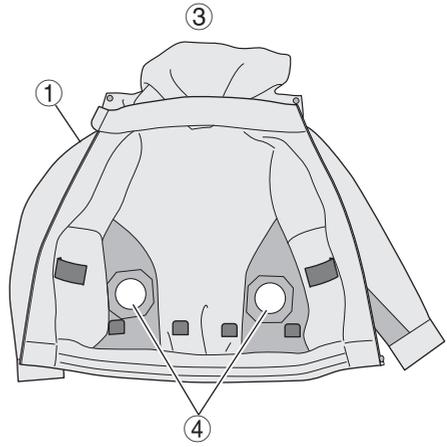
UF 1810DL

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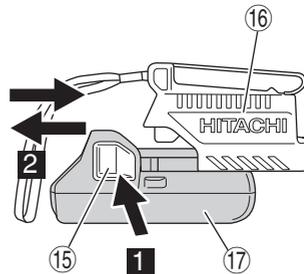
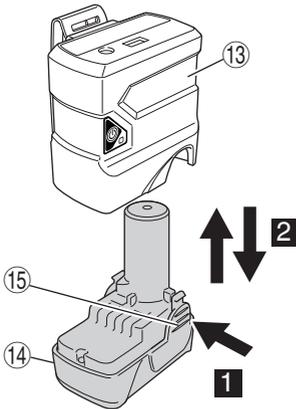


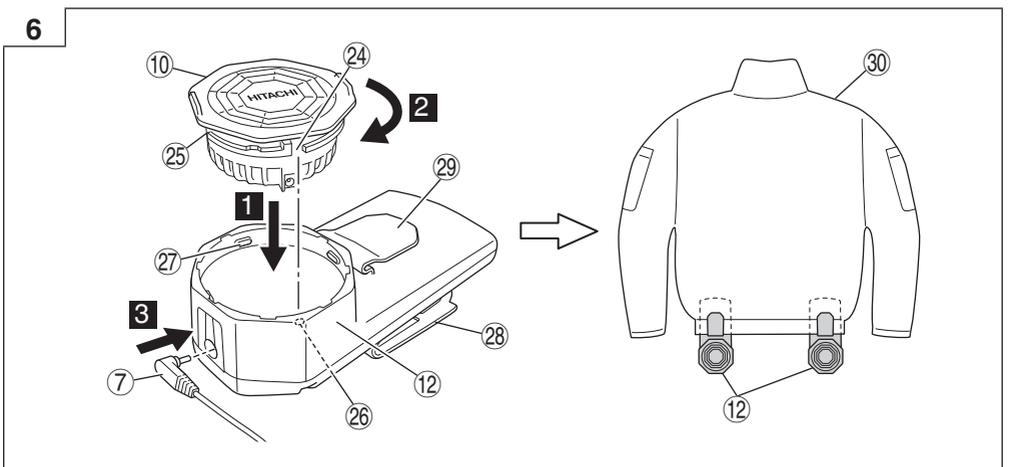
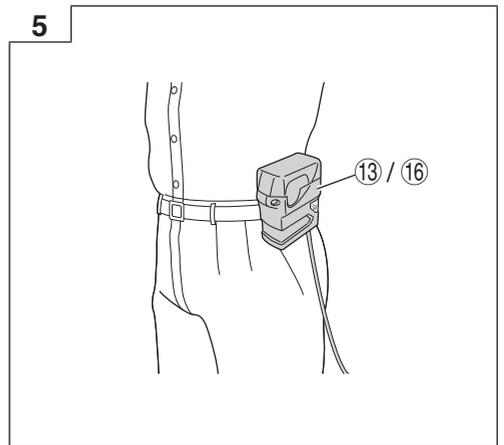
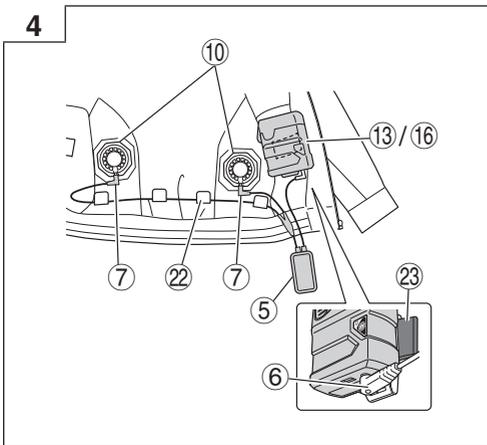
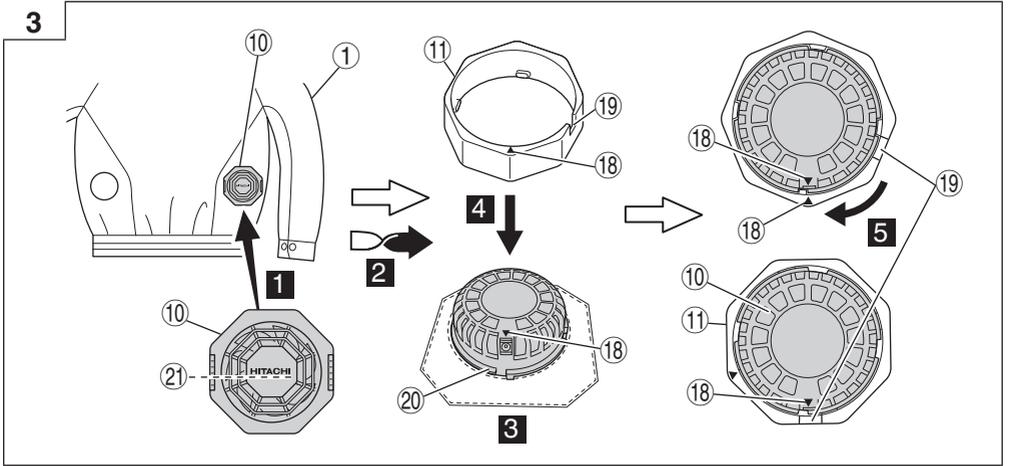
Handling instructions

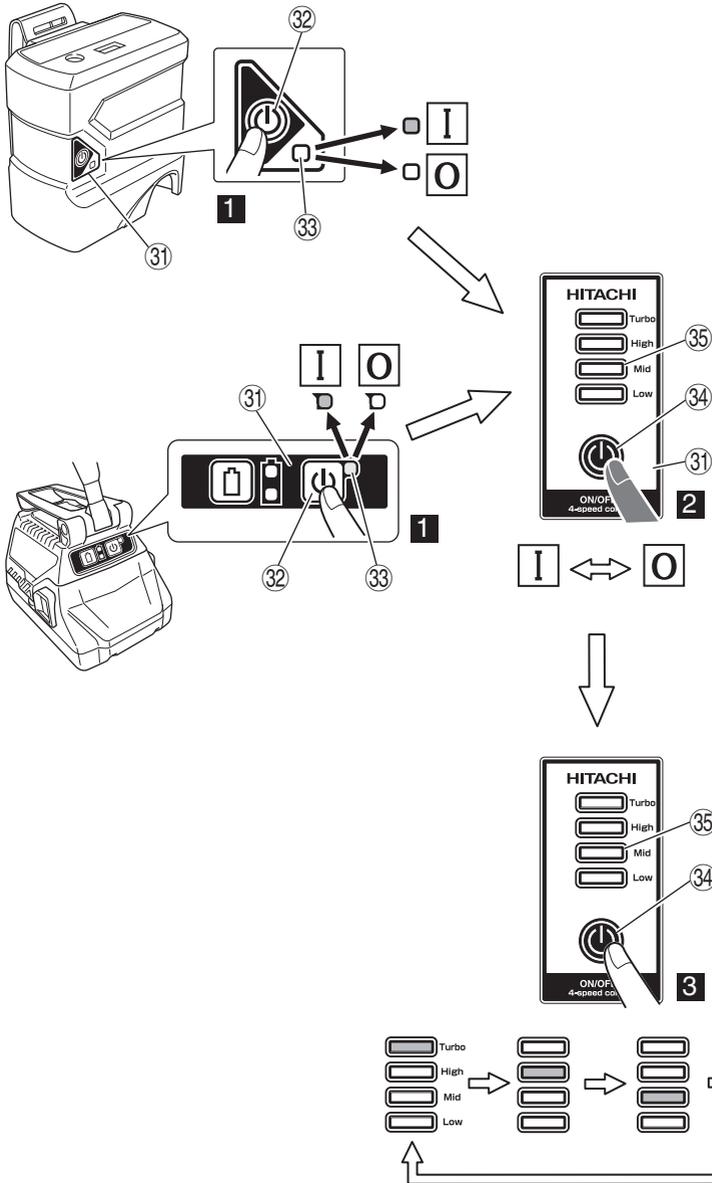
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## GENERAL POWER TOOL SAFETY WARNINGS

### WARNING

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions 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 UF1810DL.

- 1) **Work area safety**
  - a) **Keep work area clean.**  
*Cluttered areas invite accidents.*
- 2) **Electrical safety**
  - a) **Do not expose power tools to rain or wet conditions.**  
*Water entering a power tool will increase the risk of electric shock.*
  - b) **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.**  
*Damaged or entangled cords increase 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.*
- 4) **Power tool use and care**
  - a) **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.*
  - b) **Disconnect the battery from the power tool before storing power tool.**  
*Such preventive safety measures reduce the risk of starting the power tool accidentally.*
  - c) **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.**
  - d) **Maintain power tools. Check for breakage of cords 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.*
  - e) **Use the power tool and battery in accordance with these instructions.**  
*Use of the power tool for operations different from those intended could result in a hazardous situation.*
- 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 may create a risk of fire when used with another battery.*
  - b) **Use power tools only with specifically designated batteries.**  
*Use of any other batteries may create a risk of injury and fire.*

- c) **When battery 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.*

- 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.*

### PRECAUTION

Keep children and infirm persons away.

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

## CORDLESS COOLING JACKET SAFETY WARNINGS

1. This cooling jacket is an electrical device. Remove the battery and the USB adapter if there is smoke or any smell. Immediately stop use and request an inspection and/or repairs.
2. Be sure not to use the cooling jacket if you feel dizzy, drowsy, or have a headache or other body ailment. Doing so may result in an injury or accident.
3. Improper use may lead to burns.
4. The cooling jacket can burn - do not use the cooling jacket near flying sparks or open fire.
5. Do not wear the cooling jacket during pregnancy or if you have problems that make you sensitive to overheating.
6. If you have any body aids. Ask your doctor and/or the manufacturer of the body aid if you can use this cooling jacket.
7. Do not use in an environment where temperatures exceed 50°C. The heated air can cause burns.
8. The following should not use this product: children or the elderly, persons who find it difficult to wear or remove clothes, persons who find it difficult to handle switch controls, and persons with impaired thermal sense. Also, avoid use during sleep, when intoxicated or other situations when you are unable to adjust the temperature.
9. The cooling jacket is not intended for hospital use.
10. The cooling jacket is water-repellent, in case the cooling jacket is wet it must not be used. Remove the battery, the USB adapter and the controller.
11. Pay careful attention to the instructions for care and cleaning of the cooling jacket. Lack of due diligence carries the risk of electric shock or fire.
12. Do not connect or disconnect the USB adapter, the controller or battery with wet hands. Doing so may result in electric shock.
13. When using the hook of the USB adapter or the controller, hang it securely on your cooling jacket or belt, etc. Failure to do so may result in the adapter or the controller falling and causing an accident.
14. Attach the battery securely. Failure to do so may result in the battery falling off and causing an accident.

15. Do not allow the battery's terminals to become shorted with metallic powder or other substances. Doing so may result in smoke generation or fire.
  16. Do not allow the USB output port or the DC 10.8V output terminal of the USB adapter to become shorted. Doing so may result in smoke generation or fire.
  17. When using this product while working, make sure to hydrate regularly to prevent dehydration (heat stroke).
  18. The material of the jacket (clothes) does not satisfy the standards of heat/fire resistance inspections conducted by public institutions.
  19. Do not use the cooling jacket, battery charger or battery in the rain or in wet conditions.
  20. Be sure to store the cooling jacket properly when it is not being used. After allowing it to cool sufficiently, store it in a dry location that is out of the reach of children (such as somewhere high above the ground or locked away).
  21. If there is any visible deformation or damage to the cooling jacket, immediately stop use and consult with a Hitachi Authorized Service Center for an inspection.
  22. Do not dispose of the battery together with ordinary trash or place it in a fire.
  23. Store the battery in a location that is out of the reach of children.
  24. Use the battery properly according to its indicated specifications.
  25. Do not disassemble or modify the cooling jacket. Doing so may result in electric shock or fire.
  26. When caring for the product, make sure to remove the USB adapter, controller and battery.
  27. Do not place fingers or any other part of the body in the fan.
  28. The color of the cooling jacket may change or fade if exposed to direct sunlight for a prolonged period of time.
  29. Do not wear cooling jacket directly on the skin.
- 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.

#### 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.

### CAUTION ON LITHIUM-ION BATTERY

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

If any of the situations 1 to 3 below occurs while the product is being used and its switch is turned on, the battery's output may stop. This is not the trouble but the result of protection function.

1. When the battery power remaining runs out, the output stops.  
For the 10.8 V battery (BCL10xx series): Output stops if the battery's voltage drops to about 6 V.  
For the 14.4 V battery (BSL14xx series): Output stops if the battery's voltage drops to about 8 V.  
For the 18 V battery (BSL18xx series): Output stops if the battery's voltage drops to about 10 V.  
In such a case, charge it up immediately.
2. Output may stop if the cooling jacket becomes overheated. If this happens, temporarily turn off the switch.
3. Output may stop if the battery becomes overheated. If this happens, stop use of the battery, remove the battery from the cooling jacket, and allow the battery to sufficiently cool in a well-ventilated area out of direct sunlight. 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.
- Do not store an unused battery in a location exposed to swarf and dust.

#### 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, store the battery with the battery cover attached to it.

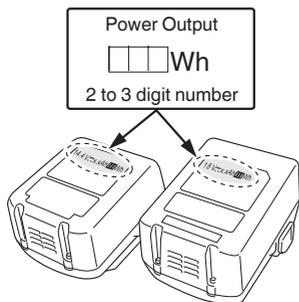
### REGARDING LITHIUM-ION BATTERY TRANSPORTATION

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.



## SYMBOLS

### WARNING

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

	UF1810DL: Cordless Cooling Jacket
	To reduce the risk of injury, user must read instruction manual.
	Disconnect the battery
	Can be machine-washed Maximum temperature of 30°C
	Do not bleach
	Do not tumble dry
	Place in the shade to be dried
	Can be ironed Maximum temperature of 110°C
	No dry cleaning
	Professional wet cleaning Very mild process
	Turn inside out
	Switching ON
	Switching OFF
	Push
	Push and hold (about 1 sec.)
	Power switch
	Airflow mode: Turbo
	Airflow mode: High
	Airflow mode: Middle
	Airflow mode: Low
	Warning

## NAMES OF PARTS (Fig. 1 – Fig. 7)

①	Cordless cooling jacket	19	Recess
②	Front side	20	Fan collar
③	Inside	21	Horizontal
④	Fan attachment hole	22	Cord retainer
⑤	Controller	23	Hook retainer
⑥	Power plug	24	Small groove
⑦	Output plug	25	Large groove (3 locations)
⑧	Power switch	26	Small projection
⑨	Power indicator lamp	27	Large projection (3 locations)
⑩	Fan	28	Hook (A)
⑪	Sleeve	29	Hook (B)
⑫	Air duct	30	General working clothes
⑬	Cordless USB adapter BCL-10UB (sold separately)	31	Switch panel
⑭	Battery BCL 10xx (sold separately)	32	Power switch
⑮	Latch	33	Power indicator lamp
⑯	Cordless USB adapter BSL-18UA(SA) (sold separately)	34	Power/Mode Changeover Switch
⑰	Battery BSL 14xx / BSL 18xx (sold separately)	35	Airflow display lamp
⑱	△ Mark		

## STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed in the below.

- Controller .....1
- Fan.....2
- Sleeve.....2
- Air duct.....2

Standard accessories are subject to change without notice.

## APPLICATIONS

Cooling down during heat

**Hours of continuous use (example)\*1**  
(when fully charged)

Battery Voltage (V)	10.8		14.4		18	
Battery Type (sold separately)	BCL 1015	BSL 1450	BSL 1460	BSL 1850	BSL 1860	
USB adaptor (sold separately)	BCL-10UB	BSL 18UA(SA)				
Airflow mode	Turbo	approx. 2 Hours	approx. 7 Hours	approx. 8 Hours	approx. 8 Hours	approx. 10 Hours
	High	approx. 3 Hours	approx. 10 Hours	approx. 12 Hours	approx. 12 Hours	approx. 15 Hours
	Medium	approx. 4.5 Hours	approx. 17 Hours	approx. 20 Hours	approx. 20 Hours	approx. 24 Hours
	Low	approx. 7 Hours	approx. 25 Hours	approx. 30 Hours	approx. 30 Hours	approx. 37 Hours

\*1 The USB terminal is not in use, and the battery type and charge state varies according to the operating environment and other factors.

## MOUNTING AND OPERATION

Action	Figure	Page
Removing and inserting the battery	2	2
Inserting the fan	3	3
Connection of a controller and the USB adaptor (sold separately)	4	3
How to use hook of USB adaptor	5	3
How to use the air duct	6	3
Switch operation	7	4
Selecting accessories *1	—	10

\*1) The previous BSL18UA model USB adaptor cannot be used. (The shape of the DC12V output port is different.)

### CAUTION

- Ensure that the battery and power plug are inserted firmly into the USB adaptor. If they are not firmly inserted, there is a risk of unexpected accidents.
- When using the air duct, make sure the bottom of the workwear is hung on hook (B). Failure to do may block the fan's air flow and result in an unexpected accident.
- When using the air duct, keep the cord from sagging by hanging it from your belt loop, etc. If the cord is slack, it could catch and be pulled out, resulting in an unexpected accident.

### NOTE

When hanging the air duct from the belt, use hook (A).

## SPECIFICATIONS

<UF1810DL>

Size	S, M, L, XL, XXL, XXXL	
Hood	Removable	
Materials	Outer	Polyester 100%
	Lining	Polyester 100%

### NOTE

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

## MAINTENANCE AND INSPECTION

### WARNING



When not in use or during inspection and maintenance, be sure to remove the USB adaptor, battery and the controller from the cooling jacket.

### ● How to Clean

#### CAUTION

- Prior to cleaning, remove the battery from the USB adaptor, and remove all connections between the cooling jacket and the USB adaptor, controller, smartphones, etc.
  - Do not wash the cooling jacket together with other items, as its colors will bleed due to the nature of the dyes.
1. Remove the USB adaptor, battery, controller, sleeve and fan from the cooling jacket.
  2. Do not clean with aggressive cleaning agents.
  3. Prior to connection with the USB adaptor, the controller and the contacts have to be dry.
  4. Refer to the instructions on the inside of the cooling jacket for washing:



### ● Storage

Do not store the controller, fan and other accessories in locations such as those listed below.

- Within reach of children
- In humid or dusty places
- In high temperature such as inside a car or exposed to direct sunlight
- In extremely cold places or directly exposed to cold draughts

- Where the temperature changes drastically
- Where it is exposed to smoke or steam such as near a cooking appliance or humidifier

**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 Hitachi cordless power tools**

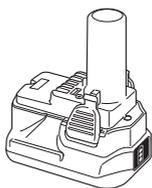
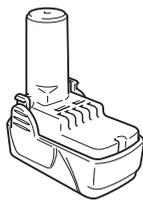
Please always use one of our designated genuine batteries. We cannot guarantee the safety and performance of our cordless power tool when used with batteries other than these designated by us, or when the battery is disassembled and modified (such as disassembly and replacement of cells or other internal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

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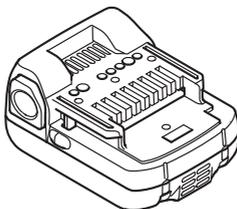
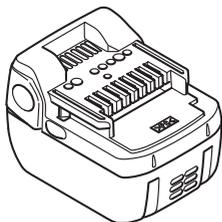
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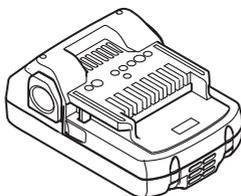
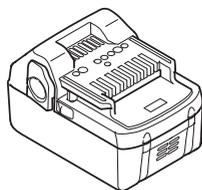
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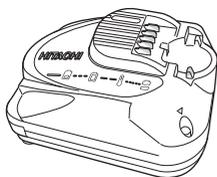
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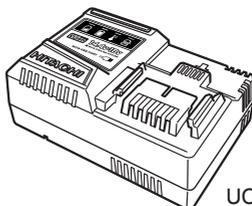
14.4V (Li-ion)



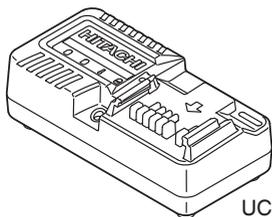
18V (Li-ion)



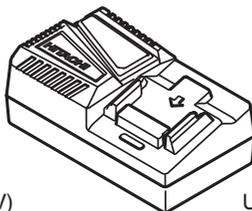
UC10SL2 (10.8V)



UC18YSL3 (14.4V - 18V)



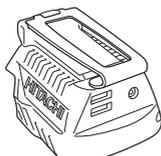
UC18YKSL (14.4V - 18V)



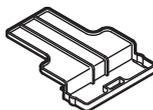
UC18YFSL (14.4V - 18V)



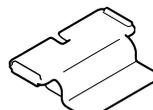
BCL-10UB



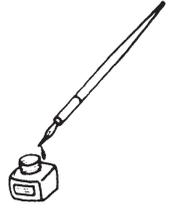
BSL18UA(SA)



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