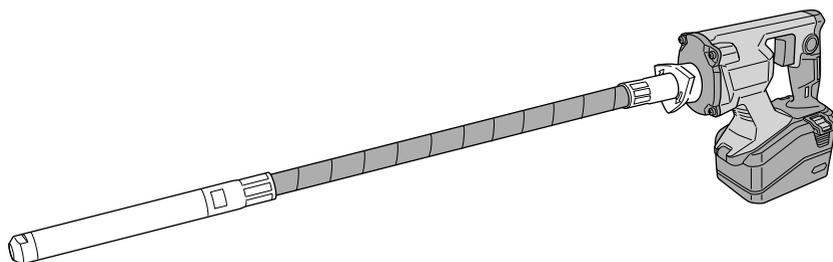


# HIKOKI

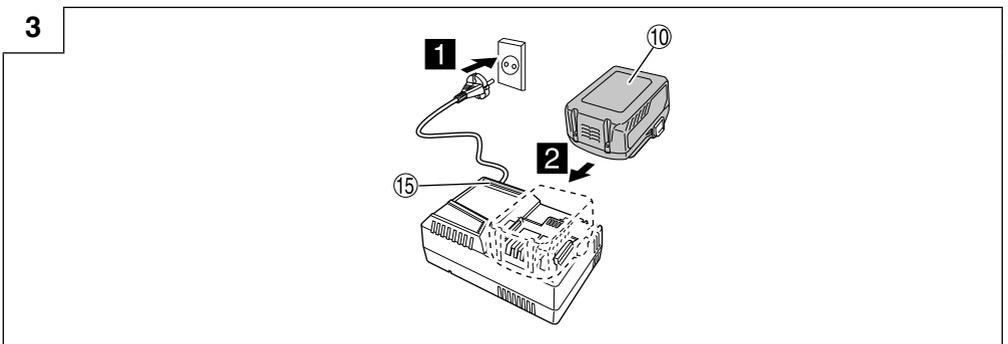
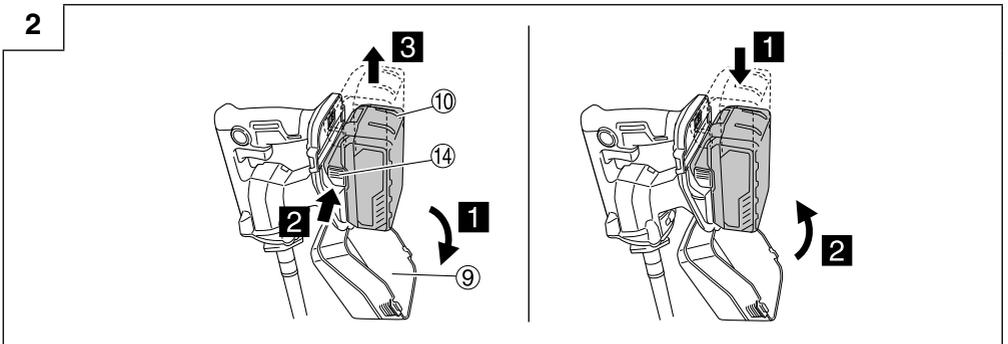
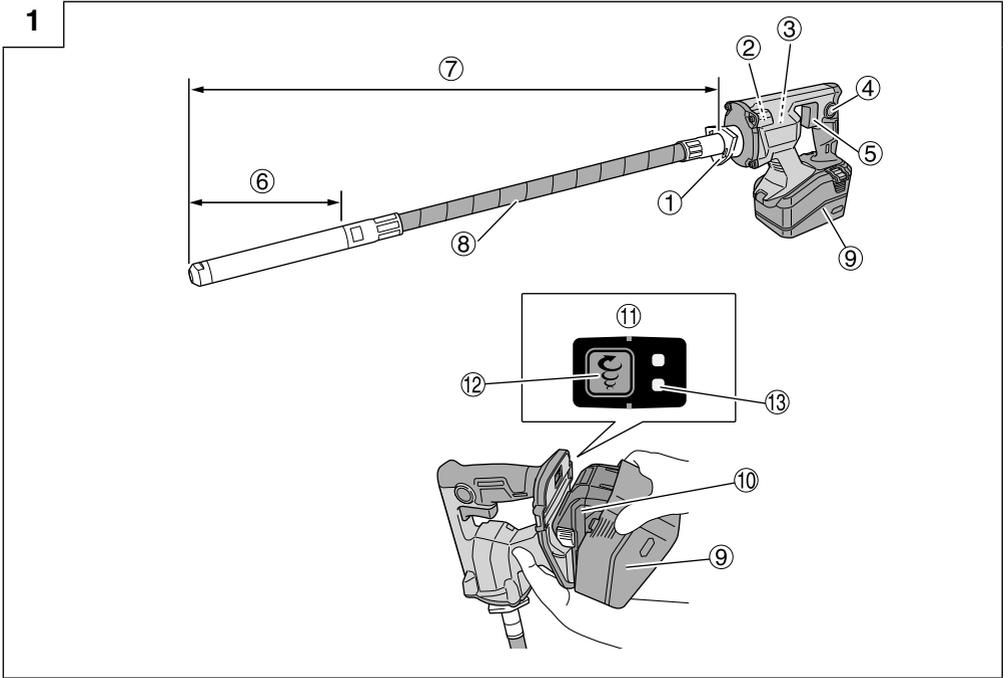
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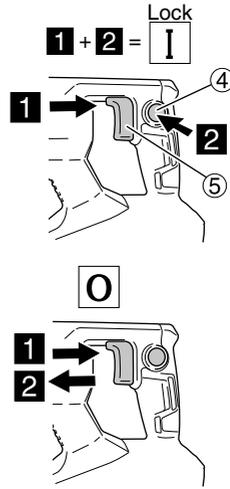
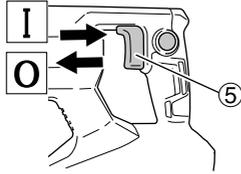
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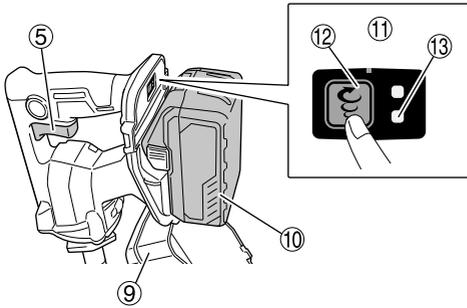
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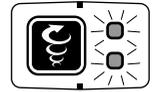
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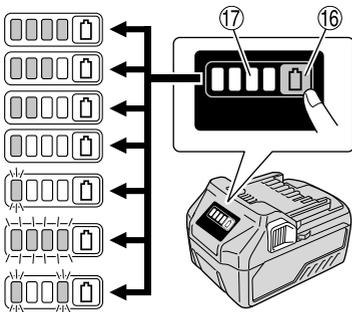


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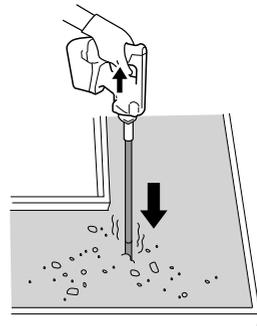


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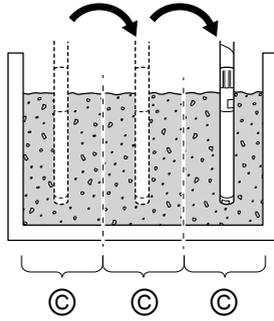
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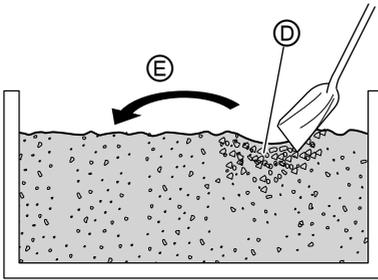
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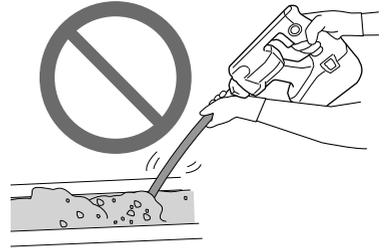
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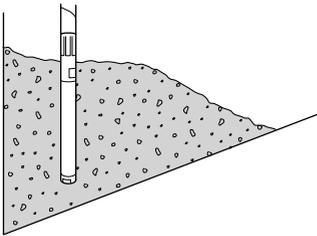


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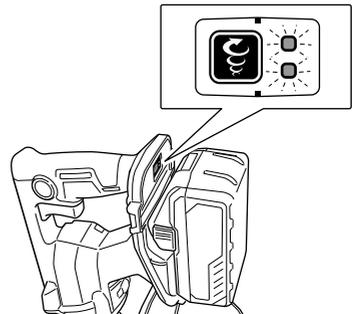


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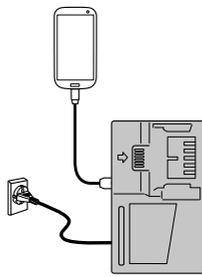
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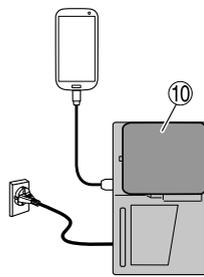
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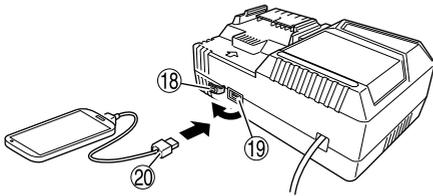


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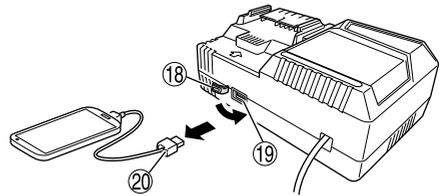


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14



## GENERAL POWER TOOL SAFETY WARNINGS

### WARNING

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

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

Save all warnings and instructions for future reference.

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

#### 1) Work area safety

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

#### 2) Electrical safety

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

#### 3) Personal safety

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

- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.**

*Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

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

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

#### 5) Battery tool use and care

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

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

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

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

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

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

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

*Liquid ejected from the battery may cause irritation or burns.*

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

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

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

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

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

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

#### 6) Service

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

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

##### b) Never service damaged battery packs.

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

#### PRECAUTION

**Keep children and infirm persons away.**

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

### 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 tool a break for a while.

9. Make sure that the battery is installed firmly. If it is at all loose it could come off and cause an accident.

10. Never touch moving parts.  
Never place your hands, fingers or other body parts near the tool's moving parts.

11. 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.

12. NEVER leave tool running unattended. Turn power off. Don't leave tool until it comes to a complete stop.

13. 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.

14. Do not give a strong shock to the switch panel or break it. It may lead to a trouble.

15. Do not use the product if the tool or the battery terminals (battery mount) are deformed.

16. Installing the battery could cause a short circuit that could result in smoke emission or ignition.

16. 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.

17. Always use the tool and battery at temperatures between -5°C and 40°C.

18. Do not touch the vibrating rod as it will be hot after the power tool is used.

19. Do not leave the power tool on a table or floor while it is vibrating.

20. When you cast concrete near your feet or in a shallow area, be sure to wear appropriate face protection (goggles and mask) as concrete may splatter.

21. Do not wash the body of the power tool with water.

22. Exercise care not to let water or concrete enter the body of the power tool while you are using it.

In addition, exercise care not to drop the power tool into concrete. If any water or concrete enters the body of the power tool, stop using the tool and contact a HiKOKI Authorized Service Center to request an inspection and/ or repairs.

## CAUTION ON LITHIUM-ION BATTERY

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

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

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

Furthermore, please heed the following warning and caution.

### WARNING

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

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

3. If you find rust, foul odor, overheating, discolor, deformation, and/or other irregularities when using the battery for the first time, do not use and return it to your supplier or vendor.

### WARNING

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

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

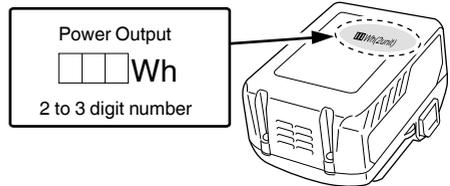
## REGARDING LITHIUM-ION BATTERY TRANSPORTATION

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

### WARNING

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

- Lithium-ion batteries that exceed a power output of 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 BSL36B18 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.



## USB DEVICE CONNECTION PRECAUTIONS (UC18YSL3)

When an unexpected problem occurs, the data in a USB device connected to this product may be corrupted or lost. Always make sure to back up any data contained in the USB device prior to use with this product.

Please be aware that our company accepts absolutely no responsibility for any data stored in a USB device that is corrupted or lost, nor for any damage that may occur to a connected device.

### WARNING

- Prior to use, check the connecting USB cable for any defect or damage.  
Using a defective or damaged USB cable can cause smoke emission or ignition.
- When the product is not being used, cover the USB port with the rubber cover.  
Buildup of dust etc. in the USB port can cause smoke emission or ignition.

**NOTE**

- There may be an occasional pause during USB recharging.
- When a USB device is not being charged, remove the USB device from the charger.  
Failure to do so may not only reduce the battery life of a USB device, but may also result in unexpected accidents.
- It may not be possible to charge some USB devices, depending on the type of device.

**NAMES OF PARTS (Fig. 1 – Fig. 14)**

①	Front cover
②	Name plate
③	Motor
④	Switch stopper
⑤	Switch trigger
⑥	Vibrating rod
⑦	Flexible assembly
⑧	Flexible hose (flexible shaft)
⑨	Battery cover
⑩	Battery
⑪	Switch panel
⑫	Mode switch
⑬	Indicator lamp
⑭	Latch
⑮	Charge indicator lamp
⑯	Battery level indicator switch
⑰	Battery level indicator lamp
⑱	Rubber cover
⑲	USB port
⑳	USB cable

**SYMBOLS**

**WARNING**

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

	UV3628DA: Cordless Concrete Vibrator
	To reduce the risk of injury, user must read instruction manual.
	Direct current
	Rated voltage
	No-load speed
	Weight
	Switching ON

	Switching OFF
	Lock Switch locks to the “ON” position.
	Mode Switch
	Normal
	Power
	Lights Blinking: Warning Signals
	Warning
	Prohibited action

**Battery**

	Remaining battery indicator switch
	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 16.

Standard accessories are subject to change without notice.

**SELECTING ACCESSORIES**

The accessories of this machine are listed on page 17.

**APPLICATIONS**

- Compaction when casting concrete for foundations or concrete products

## SPECIFICATIONS

### 1. Power tool

Model	UV3628DA
Voltage	36 V
Vibration frequencies	12000 times/min (in normal mode) 15200 times/min (in power mode)
Vibrating rod	Diameter: 28 mm, Length: 187 mm, Assembly: 825 mm
(Body) Dimensions Length x Height x Width	1045 x 224 x 109 mm
Battery available for this tool*	Multi volt battery
Weight	4.2 kg (BSL36B18)

\* 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	BSL36A18	BSL36B18
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.

### 3. Charger

Model	UC18YSL3
Charging voltage	14.4 V – 18 V
Weight	0.6 kg

## 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**)



4. Disconnect the charger's power cord from the receptacle.

5. Hold the charger firmly and pull out the battery.

**NOTE**

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

**Regarding electric discharge in case of new batteries, etc.**

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

**How to make the batteries perform longer.**

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

**CAUTION**

- If the battery is charged while it is heated because it has been left for a long time in a location subject to direct sunlight or because the battery has just been used, the charge indicator lamp of the charger lights for 0.3 seconds, does not light for 0.3 seconds (off for 0.3 seconds). In such a case, first let the battery cool, then start charging.
- When the charge indicator lamp flickers (at 0.2-second intervals), check for and take out any foreign objects in the charger's battery connector. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.
- Since the built-in micro computer takes about 3 seconds to confirm that the battery being charged with UC18YSL3 is taken out, wait for a minimum of 3 seconds before reinserting it to continue charging. If the battery is reinserted within 3 seconds, the battery may not be properly charged.

**MOUNTING AND OPERATION**

Action	Figure	Page
Removing and inserting the battery (*1)	2	2
Charging	3	2
Switch operation	4	3
About the mode select function (*2)	5	3
Remaining battery indicator	6	3
Charging a USB device from a electrical outlet	12-a	5
Charging a USB device and battery from a electrical outlet	12-b	5
How to recharge USB device	13	5
When charging of USB device is completed	14	5
Selecting accessories	—	17

(\*1) Removing and inserting the battery

**NOTE**

Ensure that the battery cover is securely closed unless you are removing or installing the battery.  
If any water, concrete, or dust enters the body of the power tool or the terminals of the battery, a failure may occur.

(\*2) About the mode select function

**NOTE**

The mode change function will not work until the battery is attached to the body of the power tool and the switch trigger is pulled.  
Note that pulling the switch trigger makes the rod begin vibrating.

Mode	Normal	Power
Display of the switch panel	<b>Fig. 5-a</b>	<b>Fig. 5-b</b>
Vibration frequencies	12000 times/min	15200 times/min
Applications	- Compacting - Locations where formwork is susceptible to deformation	- Casting of high-viscosity concrete

**OPERATION**

**CAUTION**

- Put the vibrating rod into the concrete while exercising care to ensure that it does not touch steel bars or formwork.
- Do not place heavy objects on the flexible hose or trample on it.
- Do not bend the flexible hose excessively when the power tool is being used.
- When you finish using the power tool, turn the switch off and wait until vibration stops before putting the tool down.  
If the power tool is placed in a dusty location before it stops vibrating, it may suck up dust, which may cause a failure.

## 1. Compacting concrete

Pull the switch trigger to start the rod vibrating. Insert the rod perpendicularly into the concrete. (See "2. Work tips")

When the cast concrete stops losing volume and appears light in appearance (indicating that the ingredients have blended homogeneously), the compacting process is complete.

Slowly pull the rod out so that no hole is created. (Fig. 7)

The diameter of the area that can be effectively compacted using the power tool (Fig. 8-©) is 280 mm, which is approximately 10 times the diameter of the vibrating rod. Compact all the concrete by moving the rod at equal distances that are smaller than the size of the area mentioned above. (Fig. 8)

### NOTE

Excessive vibrations may cause concrete ingredients to separate.

Exercise care to ensure that the vibrating rod does not touch steel bars or formwork.

## 2. Work tips

● If mortar has separated

If you find any locations where coarse aggregate\* and mortar\* have separated from each other (Fig. 9-ⓐ), scoop up the separate coarse aggregate and bury it in an area of concrete where there is a lot of mortar (Fig. 9-ⓑ), then compact the area appropriately. (Fig. 9-a) While carrying out these procedures, do not move the concrete inside the formwork using the vibrator. Otherwise, only the mortar that has good fluidity will move, which will further aggravate separation of the concrete. (Fig. 9-b)

\* Coarse aggregate refers to sand and crushed stones that do not pass through a 5 mm sieve.

\* Mortar refers to all concrete ingredients except coarse aggregate.

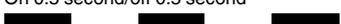
● When casting concrete on a slope

When casting concrete on a slope, start work from the lower end of the slope. By doing so, the concrete will become well compacted thanks to the weight of the concrete that is cast later and the vibrations that are applied. (Fig. 10)

## WARNING SIGNALS

This product features functions that are designed to protect the tool itself as well as the battery. During work, from the time the switch is being pulled and ten seconds after its release, each of the protective functions may be activated, resulting in the indicator lamp on the switch panel to blink as shown in Table 3 to notify the user. When any of the safeguard functions are triggered, immediately remove your finger from the switch trigger and follow the instructions described under corrective action. (Fig. 11)

Table 3

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

## MAINTENANCE AND INSPECTION

### CAUTION

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

#### 1. 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.

#### 2. 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.

#### 3. 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.

#### 4. Cleaning on the outside

After using the power tool, wipe the tool body (in particular, the ventilation holes, areas around the switch trigger, and areas near the edges of the covers require careful wiping) to remove any concrete using a cloth that is soaked in a soap solution and well wrung.

Do not use gasoline, thinner, benzene, or kerosene as they can dissolve plastics.

Immediately remove any concrete that has become attached to the flexible assembly.

### 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.

**TROUBLESHOOTING**

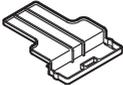
Use the inspections in the table below if the tool does not operate normally. If this does not remedy the problem, consult your dealer or the HiKOKI Authorized Service Center.

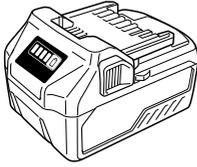
1. Power tool

Symptom	Possible cause	Remedy
Does not move	No battery remaining.	Charge the battery.
	Battery is not properly installed.	Push battery in until a click is heard.
	Battery was installed with the switch pulled.	Due to activation of the safety feature. Release the switch once and pull it again so the tool moves.
Suddenly stopped	Overload protection circuit activated.	Remove cause of overload.
	Heat protection circuit activated due to overheating of the battery or the tool itself.	Allow battery and tool to fully cool down.
Cannot install battery	Attempting to install battery other than type specified.	Use Multi Volt type battery.

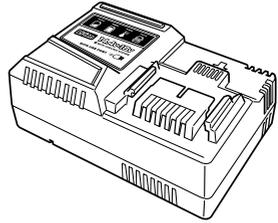
## 2. Charger

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.
The USB power lamp has switched off and the USB device has stopped charging.	The battery's capacity has become low.	Replace the battery with one that has capacity remaining.
		Plug the charger's power plug into an electric socket.
USB power lamp does not switch off even though the USB device has finished charging.	The USB power lamp lights up green to indicate that USB charging is possible.	This is not a malfunction.
It is unclear what the charging status of a USB device is, or whether its charging is complete.	The USB power lamp does not switch off even when charging is complete.	Examine the USB device that is charging to confirm its charging status.
Charging of a USB device pauses midway.	The charger was plugged into an electrical socket while the USB device was being charged using the battery as the power source.	This is not a malfunction. The charger pauses USB charging for about 5 seconds when it is differentiating between power sources.
	A battery was inserted into the charger while the USB device was being charged using a power socket as the power source.	
Charging of the USB device pauses midway when the battery and the USB device are being charged at the same time.	The battery has become fully charged.	This is not a malfunction. The charger pauses USB charging for about 5 seconds while it checks whether the battery has successfully completed charging.
Charging of the USB device doesn't start when the battery and the USB device are being charged at the same time.	The remaining battery capacity is extremely low.	This is not a malfunction. When the battery capacity reaches a certain level, USB charging automatically begins.

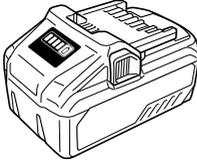
	UV3628DA	
	(WC)	(NN)
 BSL36B18	1	—
 UC18YSL3	1	—
	1	—



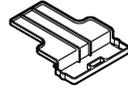
BSL36A18



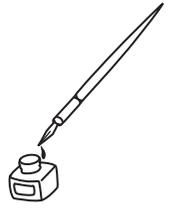
UC18YSL3 (14,4V - 18V)



BSL36B18



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