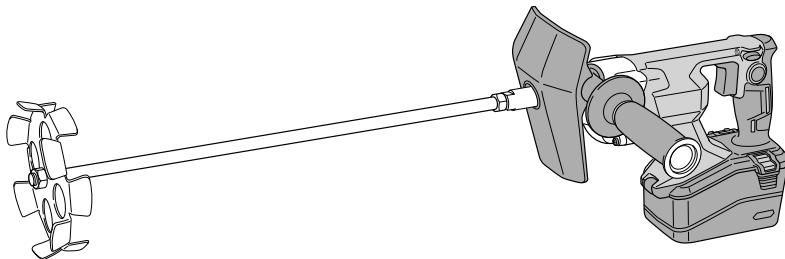
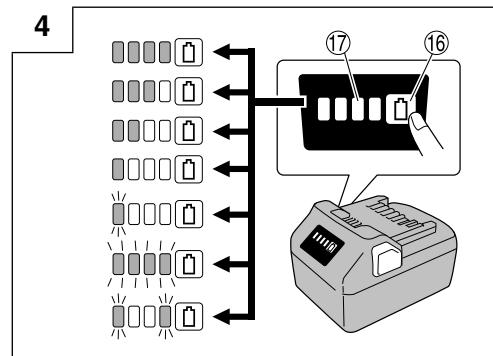
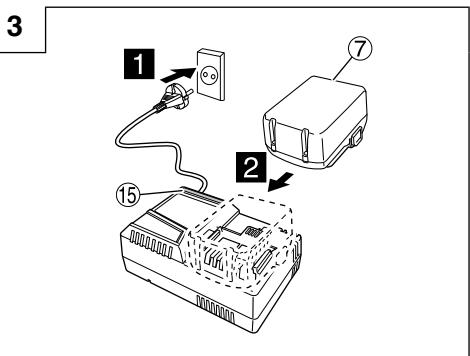
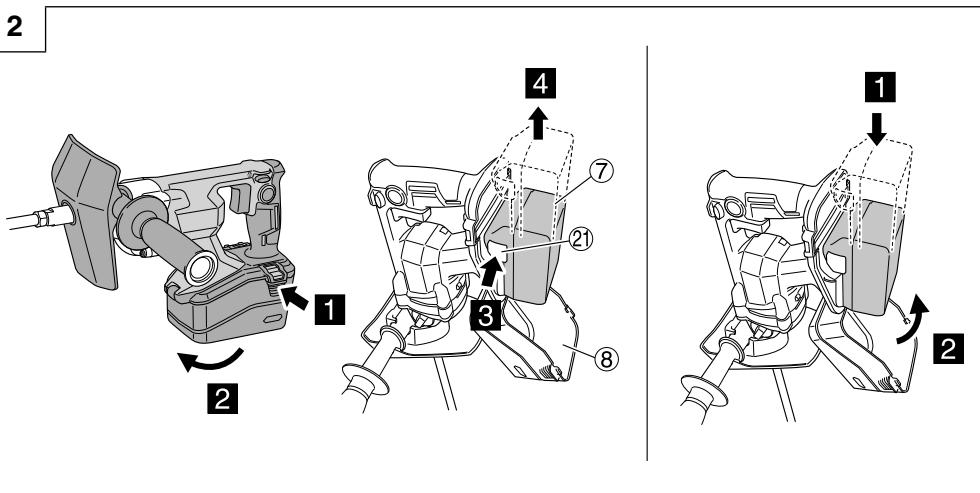
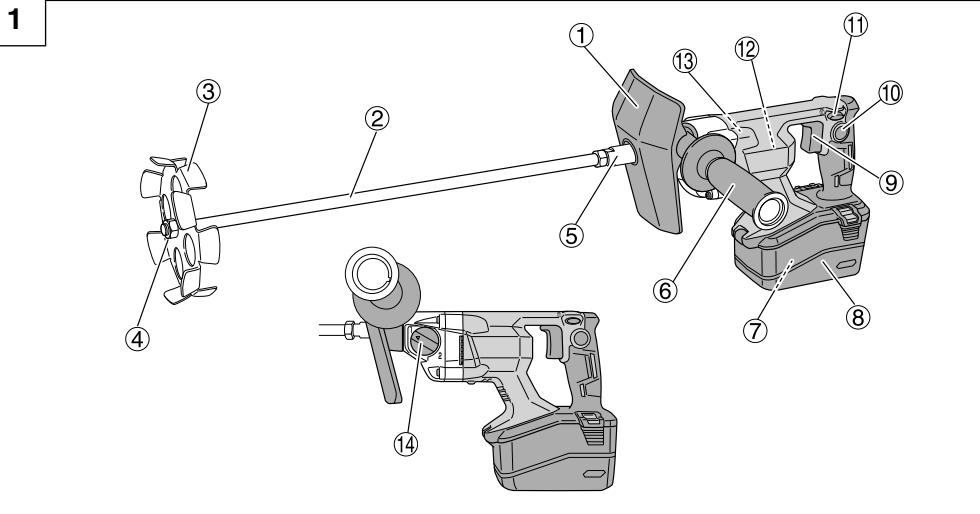


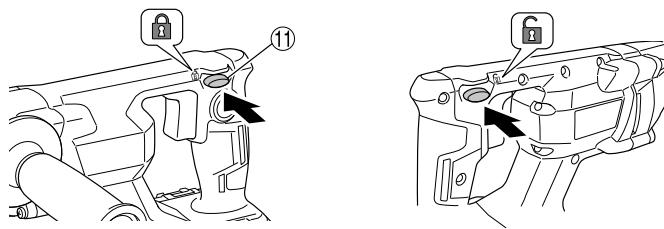
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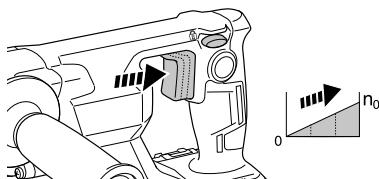
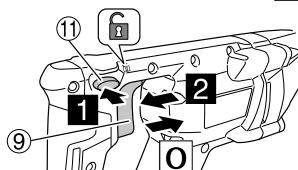
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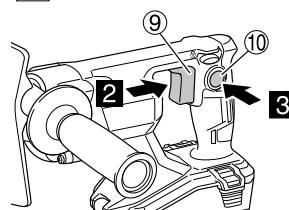
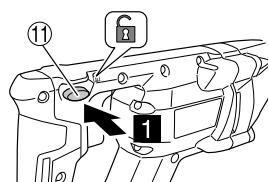
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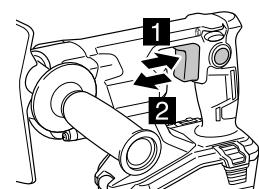
1 + 2 = I



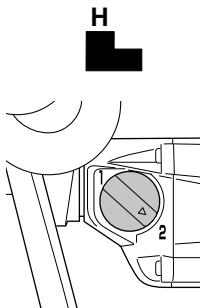
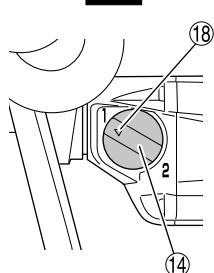
Lock
1 + 2 + 3 = I



1 + 2 = O



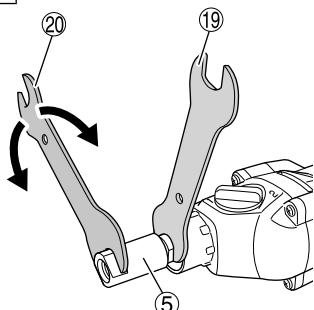
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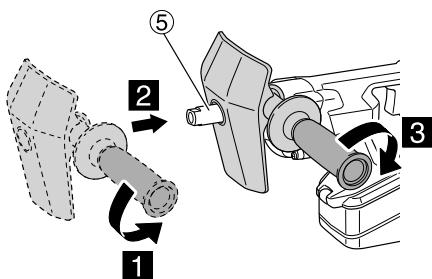
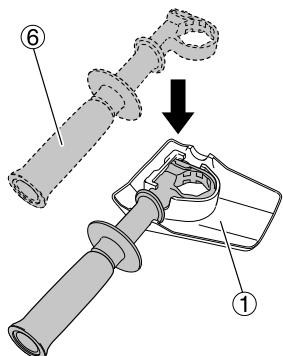
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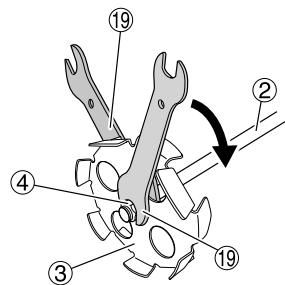
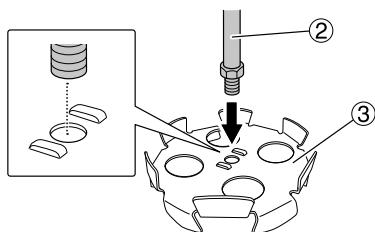
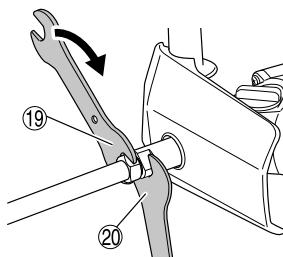
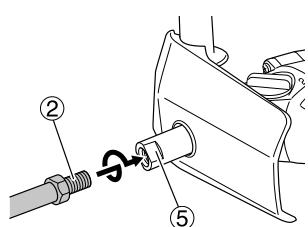
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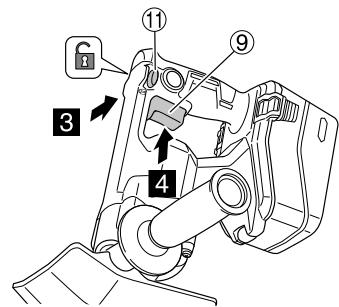
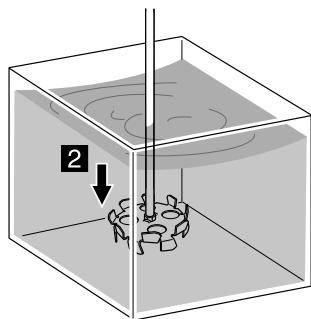
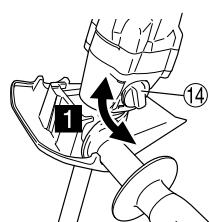
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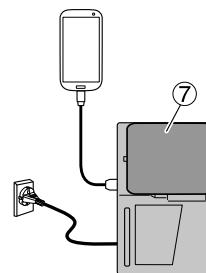
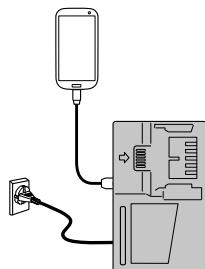
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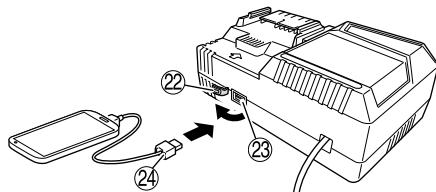
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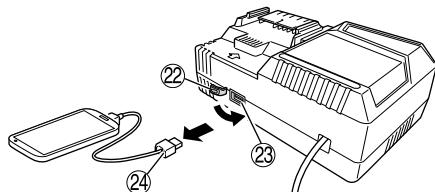
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12



13



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-slip 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. 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.

CORDLESS MIXER SAFETY INSTRUCTIONS

1. Hold the tool with both hands at the intended handles. *Loss of control can cause personal injury.*
2. Ensure sufficient ventilation when mixing flammable materials to avoid a hazardous atmosphere. *Developing vapour may be inhaled or be ignited by the sparks the power tool produces.*
3. Do not mix food. *Power tools and their accessories are not designed for processing food.*
4. Ensure that the mixing container is placed in a firm and secure position. *A container that is not properly secured may move unexpectedly.*
5. Follow the instructions and warnings for the material to be mixed. *Material to be mixed may be harmful.*

6. **Do not reach into the mixing container with your hands or insert any other objects into it while mixing.**
Contact with the mixer basket may lead to serious personal injury.
7. **Start up and run down the tool in the mixing container only.**
The mixer basket may bend or spin in an uncontrolled manner.
8. **Do not work materials containing asbestos.**
Asbestos is considered carcinogenic.
9. **Take protective measures when dust can develop during working that is harmful to one's health, combustible or explosive.**
Example: Some dusts are regarded as carcinogenic. Wear a dust mask and work with dust/chip extraction when connectable.
10. **Always wait until the machine has come to a complete stop before placing it down.**
The tool insert can jam and lead to loss of control over the power tool.
11. **Keep your hands and face from the mixing screw and other rotating parts during use.**
12. **Attach the mixing screw and accessories securely, as described in the instruction manual.**
13. **Before use, run the mixing screw under no load, pointing away from others while doing so, to check for abnormalities.**
14. **Avoid wearing gloves likely to catch on the tool during use.**
15. **Make sure no one passes below you when working at heights.**
This will prevent injury if you drop any tools or materials.
16. **Follow instruction for lubricating and changing accessories.**

CAUTION ON LITHIUM-ION BATTERY

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

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

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

Furthermore, please heed the following warning and caution.

WARNING

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

1. Make sure that swarf and dust do not collect on the battery.
- During work make sure that swarf and dust do not fall on the battery.
- Make sure that any swarf and dust falling on the power tool during work do not collect on the battery.
- Do not store an unused battery in a location exposed to swarf and dust.
- Before storing a battery, remove any swarf and dust that may adhere to it and do not store it together with metal parts (screws, nails, etc.).
2. Do not pierce battery with a sharp object such as a nail, strike with a hammer, step on, throw or subject the battery to severe physical shock.

3. Do not use an apparently damaged or deformed battery.
4. Do not use the battery in reverse polarity.
5. Do not connect directly to an electrical outlets or car cigarette lighter sockets.
6. Do not use the battery for a purpose other than those specified.
7. If the battery charging fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
8. Do not put or subject the battery to high temperatures or high pressure such as into a microwave oven, dryer, or high pressure container.
9. Keep away from fire immediately when leakage or foul odor are detected.
10. Do not use in a location where strong static electricity generates.
11. If there is battery leakage, foul odor, heat generated, discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or battery charger, and stop use.
12. Do not immerse the battery or allow any fluids to flow inside. Conductive liquid ingress, such as water, can cause damage resulting in fire or explosion. Store your battery in a cool, dry place, away from combustible and flammable items. Corrosive gas atmospheres must be avoided.

CAUTION

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

WARNING

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

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

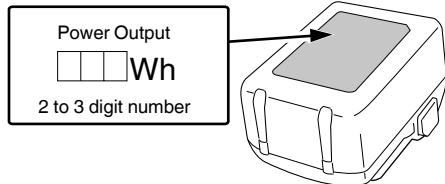
REGARDING LITHIUM-ION BATTERY TRANSPORTATION

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

WARNING

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

- Lithium-ion batteries that exceed a power output of 100 Wh are considered to be in the freight classification of Dangerous Goods and will require special application procedures.
- For transportation abroad, you must comply with international law and the rules and regulations of the destination country.
- If the BSL36B18X is installed in the power tool, the power output will exceed 100 Wh and the unit will be classified as Dangerous Goods for freight classification.



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. 13)

| | |
|---|--|
| ① | Rubber shield |
| ② | Shaft (A2) (Material: Plain bar steel) |
| ③ | Screw (A5) (Material: Plain steel) |
| ④ | Hex nut (M14) |
| ⑤ | Holder (M14) (Material: Plain steel) |
| ⑥ | Side handle |
| ⑦ | Battery |
| ⑧ | Battery cover |
| ⑨ | Switch trigger |
| ⑩ | Switch stopper |
| ⑪ | Lock-off button |
| ⑫ | Motor |
| ⑬ | Name plate |
| ⑭ | Shift lever |
| ⑮ | Charge indicator lamp |

| | |
|---|---------------------------------|
| ⑯ | Battery level indicator switch |
| ⑰ | Battery level indicator lamp |
| ⑱ | Arrow |
| ⑲ | Double-ended wrench (17, 22 mm) |
| ⑳ | Double-ended wrench (17, 19 mm) |
| ㉑ | Latch |
| ㉒ | Rubber cover |
| ㉓ | USB port |
| ㉔ | USB cable |

SYMBOLS

WARNING

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

| | |
|--|--|
| | UM36DA: Cordless Mixer |
| | To reduce the risk of injury, user must read instruction manual. |
| | Direct current |
| | Rated voltage |
| | No-load speed |
| | Switching ON |
| | Switching OFF |
| | Lock Switch locks to the "ON" position. |
| | Disconnect the battery |
| | Lock |
| | Unlock |
| | Change rotation speed - Low speed |
| | Change rotation speed - High speed |
| | 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

Mixing materials such as paint, spraying material (sand wall coatings, tile coatings), stucco, mortar, and leveling mortar

SPECIFICATIONS

1. Power tool

| | |
|---|--|
| Model | UM36DA |
| Voltage | 36 V |
| No load speed | 0–500 /min (in Low speed) 0–1200 /min (in High speed) |
| Mixing screw diameter (Standard accessory) | 150 mm |
| Maximum mixing screw diameter | 200 mm |
| (Body) Dimensions Length x Height x Width | 930 x 227 x 109 mm |
| Battery available for this tool* | Multi volt battery |
| Weight | 4.4 kg (BSL36A18X) 4.7 kg (BSL36B18X) |

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

Electronic control

- Soft start
Reduces recoil against the operator by managing the number of rotations during startup.
- 0 Voltage Re-start Protection
The 0 voltage restart protection feature prevents the power tool from restarting after the power has been temporarily cut off during operation.
- Constant speed
- Overload protection
This protection feature cuts off the power to the motor in the event of overloading of motor or a conspicuous reduction in rotational speed during operation.
When the overload protection feature has been activated, the motor may stop.
In this case, release the tool switch and eliminate causes of overloading.
After that you can use it again.

Overheat protection

This protection feature cuts off the power to the motor and stops the power tool in the event of overheating of motor during operation.
When the overheat protection feature has been activated, the motor may stop.
In this case, release the tool switch and cool it down in a few minutes.
After that you can use it again.

NOTE

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

2. Battery

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

* The tool itself will automatically switch over.

** Please see our general catalogue for details.

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

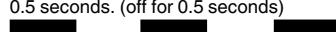
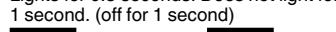
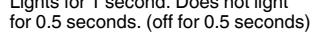
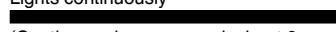
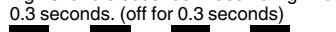
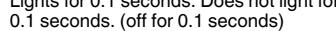
When inserting a battery in the charger, the charge indicator lamp will blink in blue.

When the battery becomes fully recharged, the charge indicator lamp will light up in green. (See Table 1)

(1) Charge indicator lamp indication

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

Table 1

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

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

Table 2

| Charger | | UC18YSL3 | | | | | | | | | | |
|---------|--|---|--|--|--|--|--|--|--|--|--|--|
| Battery | Type of battery | Li-ion | | | | | | | | | | |
| | Temperatures at which the battery can be recharged | 0°C–50°C | | | | | | | | | | |
| | Charging voltage V | 14.4 | | 18 | | Multi volt series | | | | | | |
| | | BSL14xx series | | BSL18xx series | | (10 cells) | | | | | | |
| | Charging time, approx. (At 20°C) min. | BSL1415S : 15 BSL1415 : 15 BSL1415X : 15 BSL1420 : 20 BSL1425 : 25 BSL1430C : 30 | BSL1430 : 20 BSL1440 : 26 BSL1450 : 32 BSL1460 : 38 | BSL1815S : 15 BSL1815 : 15 BSL1815X : 15 BSL1820 : 20 BSL1825 : 25 BSL1830C : 30 BSL1850C : 32 | BSL1830 : 20 BSL1840 : 26 BSL1850 : 32 BSL1860 : 38 | BSL36A18 : 32 BSL36A18X : 32 BSL36B18 : 52 BSL36B18X : 52 | | | | | | |
| | | | | | | | | | | | | |
| USB | Charging voltage V | 5 | | | | | | | | | | |
| | Charging current A | 2 | | | | | | | | | | |

NOTE

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

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

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

NOTE

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

Regarding electric discharge in case of new batteries, etc.

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

How to make the batteries perform longer.

(1) Recharge the batteries before they become completely exhausted.

When you feel that the power of the tool becomes weaker, stop using the tool and recharge its battery. If you continue to use the tool and exhaust the electric current, the battery may be damaged and its life will become shorter.

(2) Avoid recharging at high temperatures.

A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.

CAUTION

○ If the battery is charged while it is heated because it has been left for a long time in a location subject to direct sunlight or because the battery has just been used, the charge indicator lamp of the charger lights for 0.3 seconds, does not light for 0.3 seconds (off for 0.3 seconds). In such a case, first let the battery cool, then start charging.

○ When the charge indicator lamp flickers (at 0.2-second intervals), check for and take out any foreign objects in the charger's battery connector. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.

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

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 |
| Low-speed / High-speed changeover (*2) | 6 | 3 |
| Mounting and dismounting of the holder (*3) | 7 | 3 |
| Fixing side handle | 8 | 4 |
| Mounting of the screw (*4) | 9 | 4 |
| How to use (*5) | 10 | 5 |
| Charging a USB device from an electrical outlet | 11-a | 5 |
| Charging a USB device and battery from an electrical outlet | 11-b | 5 |
| How to recharge USB device | 12 | 5 |
| When charging of USB device is completed | 13 | 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) Low-speed / High-speed changeover

CAUTION

Avoid mixing viscous materials in Mode 2 (High speed). The motor will stop if it detects an excessive load. Overloading may damage the tool.

To change speed, rotate the shift lever as indicated by the arrow. The numeral "1" engraved on the machine body denotes low speed, the numeral "2" denotes high speed. If it is hard to turn the shift lever, turn the shaft slightly in either direction and then turn the gear shift lever again.

NOTE

- Align the arrow on the shift lever to one of the numbered positions. Use with the shift lever set between the numbered positions may damage the tool.
- Rotate the shift lever only when the motor is not operating. Changing the shift lever position while the motor is running may damage the tool.

| Mode | Mode 1 (Low speed) | Mode 2 (High speed) |
|----------------|--|---|
| Rotation speed | 0~500 /min | 0~1200 /min |
| Usage | High viscosity materials (e.g., mortar) | Low viscosity materials (e.g., paint or leveling mortar) |

(*)3) Mounting and dismounting of the holder

Attached to the main unit when packing.

(*)4) Mounting of the screw

CAUTION

Take extreme care to avoid injury when mounting or detaching the mixing screw.

(*)5) How to use

NOTE

- Ensure that the mixing container is placed in a firm and secure position. A container that is not properly secured may move unexpectedly.
- Place the mixing screw inside the container and check for safety before turning on the switch. Once mixing is complete, wait for the mixing screw to come to a complete stop before removing it from the container.
- Start mixing at low speed. Assess mixing status before adjusting the speed.

MAINTENANCE AND INSPECTION

CAUTION

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

1. Mixing screw cleaning

To extend the life of the screw and shaft, clean by washing in water after use.

CAUTION

Do not leave the tool with the mixing screw immersed in plaster.

Doing so may result in corrosion and flaking of the screw surface and plaster contamination.

2. Inspecting the mounting screws

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

3. Maintenance of the motor

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

4. Inspection of terminals (tool and battery)

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

On occasion check prior, during and after operation.

CAUTION

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

Failure to do so may result in malfunction.

5. Cleaning on the outside

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, benzine, or kerosene as they can dissolve plastics.

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

6. Storage

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

NOTE

Storing lithium-ion batteries.

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

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

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

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

CAUTION

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

Important notice on the batteries for the HiKOKI cordless power tools

Please always use one of our designated genuine batteries. We cannot guarantee the safety and performance of our cordless power tool when used with batteries other than those 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

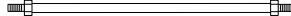
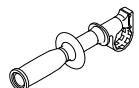
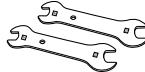
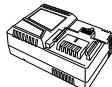
Use the inspections in the table below if the tool does not operate normally. If this does not remedy the problem, consult your dealer or the HiKOKI Authorized Service Center.

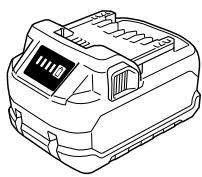
1. Power tool

| 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. |
| | The material being mixed is viscous. | Switch from High speed to Low speed. |
| | Heat protection circuit activated due to overheating of the battery or the tool itself. | Allow battery and tool to fully cool down. |
| Switch can't be pulled | Lock-off button is pushed in | Release the Lock-off button. |
| Cannot install battery | Attempting to install battery other than type specified. | Use Multi Volt type battery. |

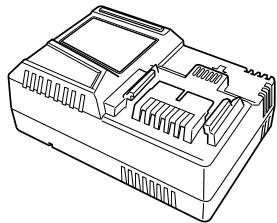
2. Charger

| 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. |

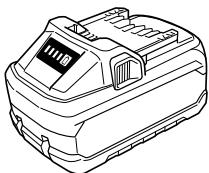
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|  BSL36A18X | 1 | — |
|  UC18YSL3 | 1 | — |
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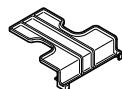
BSL36A18X



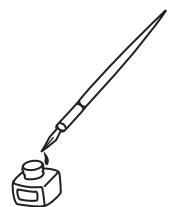
UC18YSL3 (14.4V-18V)

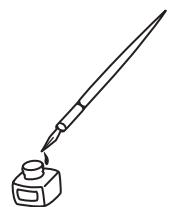


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