

## WH 18DBDL2





Handling instructions

## GENERAL POWER TOOL SAFETY WARNINGS

## 

#### 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 mainsoperated (corded) power tool or battery-operated (cordless) power tool.

- 1) Work area safety
  - a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
  - b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
  - c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- 2) Electrical safety
  - a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
  - 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 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

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, clothing and gloves 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.
- 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 the battery pack 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. 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

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

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 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.

- 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 IMPACT DRIVER SAFETY WARNINGS

Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

## **ADDITIONAL SAFETY WARNINGS**

- 1. This is a portable tool for tightening and loosening screws, bolts and nuts. Use it only for these operation.
- 2. Make sure to securely hold the tool during operation. Failure to do so can result in accidents or injuries.
- 3. Make sure that the battery is installed firmly. If it is as all loose it could come off and cause an accident.
- Preparing and checking the work environment. Make sure that the work site meets all the conditions laid forth in the precautions.
- 5. Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
- 6. Never disassemble the rechargeable battery and charger.
- Never short-circuit the rechargeable battery. Shortcircuiting the battery will cause a great electric current and overheat. It results in burn or damage to the battery.
- Do not dispose of the battery in fire. If the battery is burnt, it may explode.
- Bring the battery to the shop from which it was purchased as soon as the post-charging battery life becomes too short for practical use. Do not dispose of the exhausted battery.
- 10. 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.
- 11. Check the actual tightening torque with a toruqe wrench.
- 12. Stop the tool before switching the direction of rotation. Always release the switch and wait for tool to stop before switching the direction of rotation.
- 13. Never touch the turning part. Do not allow the turning part section to get near your hands or any other part of your body. You could be cut or caught in the turning part. Also, be careful not to touch the turning part after using continuously it for a long time. It gets quite hot and could burn you.

- 14. Please use the designated attachments which are listed in the operations manual and HiKOKI's catalog. Accidents or injuries could result from not doing so.
- 15. Make sure to firmly install the attachments in the anvil. If the attachments is not firmly installed it might come out and cause injuries. After installing the driver bit, pull lightly out the bit to make sure that it does not come loose during use. If the guide sleeve does not return to its original position, then the bit is not installed properly.
- 16. Resting the unit after continuous work.
- 17. 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.
- 18. The motor may stop in the event the tool is overloaded. In this should occur, release the tool's switch and eliminate the cause of the overload. Avoid touching the front case which can heat up during continuous operation.
- 19. The use of the battery in a cold condition (below 0 degree Centigrade) can sometimes result in the weakened tightening torque and reduced amount of work. This, however, is a temporary phenomenon, and returns to normal when the battery warms up.
- 20. Install securely the hook. Unless the hook is securely installed, it may cause an injury while using. When electing to carry the tool hooked to your hip belt, make sure to detach the tool bit and side handle. Failure to do so may result in unexpected injury.
- 21. Do not touch the metal parts, as it gets very hot during continuous work.
- 22. Do not look directly into the light. Such actions could result in eye injury.

Wipe off any dirt or grime attached to the lens of the LED light with a soft cloth, being careful not to scratch the lens.

Scratches on the lens of the LED light can result in decreased brightness.

## **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.

- If the tool is overloaded, the motor may stop. In this case, release the switch of tool and eliminate causes of overloading. After that, you can use it again.
- If the battery is overheated under overload work, the battery power may stop.
   In this case, stop using the battery and let the battery.

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

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

#### WARNING

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

- 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.

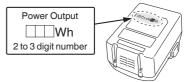
## REGARDING LITHIUM-ION BATTERY TRANSPORTATION

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.
- O For transportation abroad, you must comply with international law and the rules and regulations of the destination country.



## USB DEVICE CONNECTION PRECAUTIONS (ONLY WITH UC18YSL3 CHARGER)

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

O 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

- O 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.

## RECAUTIONS REGARDING THE DUST-RESISTANCE AND WATER-PROOFING FUNCTIONS

This product conforms to IP56 protection class ratings (dust-resistance and water-proofing) for electrical equipment as stipulated by the international IEC regulations. (Only the main unit conforms to the IP56 protection class ratings when equipped with a battery.)

## [Descriptions of IP Codes]

## IP56

Protection rating for water penetration

Must be no adverse effects on the equipment when sprayed with powerful jets of water from all directions (waterproofed).

(100 L of water per minute sprayed for approximately three minutes from a distance of approximately three meters with the use of a spray nozzle with a diameter of 12.5 mm.)

Protection rating for external assault by solid objects

Dust that may cause adverse effects on the equipment must not be able to enter (dust-resistance).

(The equipment to be left non-operable in a test chamber in which particles of talcum powder with a diameter of less than 75  $\mu$ m are floating in the air with the use of an agitation pump at a rate of 2 kg per cubic meter for eight hours.)

The equipment has been designed to withstand the effects of dust and water, but there is no guarantee that it will not malfunction. Do not use or leave the equipment in locations where it is subject to excessive amounts of dust, or in locations where it is submerged in water or subject to rainwater.

## **SYMBOLS**

### WARNING

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

| \$             | WH18DBDL2: Cordless Impact Driver              |
|----------------|--|
|                | Read all safety warnings and all instructions. |
| ====           | Direct current                                 |
| V              | Rated voltage                                  |
| n <sub>0</sub> | No-load speed                                  |
| /min           | Oscillation per minute                         |
| Pm             | Power mode                                     |
| Nm             | Normal mode                                    |
| Sm             | Soft mode                                      |
| SEm            | Self drilling screw mode                       |
| Bpm            | Impact rate                                    |
| S<br>CIIII     | Small screw                                    |
| ()-mm          | Ordinary bolt                                  |
| H              | High tension bolt                              |
| SE<br>©        | Self drilling screw                            |
| MT             | Tightening torque (Maximum)                    |
|                | Hex. drive size                                |
| kg             | Weight   |
| Ι              | Switching ON                                   |
| 0              | Switching OFF                                  |

| -               |   |
|-----------------|---|
| E               | Disconnect the battery  |
| $[\mathbb{D}]$  | Light section switch  |
|                 | Always ON (turn off after 2 minute)   |
|                 | Light only SW-ON  |
| ON<br>ON<br>OFF | Always OFF  |
| (F)             | Clockwise rotation  |
| (L)             | Counterclockwise rotation   |
| ۲.              | Battery capacity  |
|                 | Remaining battery indicator switch  |
| 380             | The battery remaining power is nearly empty.<br>Recharge the battery soonest possible |
|                 | The battery remaining power is a half.  |
|                 | The battery remaining power is enough.  |
| Ê               | Tightening mode selector switch   |
| 1111<br>S       | Tightening mode indicator lamp  |
| *100            | "Delicate work"<br>Tightening small diameter screws (M6 or<br>similar), etc.          |
|                 | "Normal work"<br>Tightening short screws, Affixing plasterboard,<br>etc.              |
| aigs)           | "Heavy load work"<br>Tightening long screws, coach screws, bolts,<br>etc.             |

| $\triangle$ |  |
|-------------|--|

Self drilling screw tightening

Warning

## **STANDARD ACCESSORIES**

In addition to the main unit (1 unit), the package contains the accessories listed on page 11.

Standard accessories are subject to change without notice.

## **APPLICATIONS**

Driving and removing of machine screws, wood screws, tapping screws, etc.

## **SPECIFICATIONS**

The specifications of this machine are listed in the Table on page 11.

### NOTE

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

## CHARGING

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

- Connect the charger's power cord to the receptacle. When connecting the plug of the charger to a receptacle, the pilot lamp will blink in red (At 1- second intervals).
- 2. Insert the battery into the charger. Firmly insert the battery into the charger as shown in Fig. 2 (on page 12).
- 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 3**)

(1) Charge indicator lamp indication The indications of the charge indicator lamp will be as shown in **Table 3**, according to the condition of the charger or the rechargeable battery.

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

Table 3

6

(2) Regarding the temperatures and charging time of the rechargeable battery The temperatures and charging time will become as shown in Table 4.

| Table 4 |  |
|---------|--|
|---------|--|

| Battery   | Charger | UC18YSL3   |  |  |
|---|---------|--|--|--|
| Charging voltage  | V       | 14.4   | 18   |  |
| Type of battery   |         | Li-i   | ion  |  |
| Temperatures at which the battery can be recharged  |         | -10°C – 50°C   |  |  |
| Charging time for battery capacity, approx.<br>(At 20°C)  |         |  |  |  |
| 1.3 Ah         min.           1.5 Ah         min.           2.0 Ah         min.           2.5 Ah         min.           3.0 Ah         min.           4.0 Ah         min.           5.0 Ah         min.           6.0 Ah         min. |         | 15 (4 cells)<br>15 (4 cells)<br>20 (4 cells)<br>25 (4 cells)<br>20 (8 cells) / 30 * BSL1430C<br>26 (8 cells)<br>32 (8 cells)<br>38 (8 cells) | 15 (5 cells)<br>15 (5 cells)<br>20 (5 cells)<br>25 (5 cells)<br>20 (10 cells) / 30 * BSL1830C<br>26 (10 cells)<br>32 (10 cells)<br>38 (10 cells) |  |

#### 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

- O If the battery is charged while it is heated because it has been left for a long time in a location subject to direct sunlight or because the battery has just been used, the 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.
- O 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.

O 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 |
|---|--------|------|
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\*1 How to use the LED light

NOTE

To prevent the battery power consumption caused by forgetting to turn off the LED light, the light goes off automatically in about 2 minutes..

## \*2 Tightening mode selector function

#### CAUTION

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

By using the Tightening mode selector switch on the side of the tool body, the tightening torque can be adjusted according to the type of work.

The Tightening mode switches between 4 different modes each time the Tightening mode selector switch is pressed. Normal mode allows screws to be tightened smoothly and gently.

Under normal circumstances, use Normal mode.

Power mode is suitable for heavy-load work that requires more force, such as tightening long screws.

Use it when you feel that Normal mode lacks sufficient power.

Self-drilling screw mode is used for tightening selfdrilling Teks screws. This mode reduces the chances of overtightening that could result in severing of the screw head, breakage of the screw, or slippage.

#### NOTE

- O The appropriate mode differs depending on the screw and the material being screwed. Drive in a few test screws and adjust the mode setting accordingly.
- The tightening mode selector switch can only be set after the battery has been installed in the driver and the trigger switch has been pulled once.

## MAINTENANCE AND INSPECTION

### 1. Inspecting the driver bit

Using a broken bit or one with a worn out tip is dangerous because the bit can slip. Replace it.

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

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

4. Cleaning on the outside

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

5. Storage

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

#### NOTE

Storing lithium-ion batteries.

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

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

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

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

#### CAUTION

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

## Important notice on the batteries for the HiKOKI cordless power tools

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

#### NOTE

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

## TROUBLESHOOTING

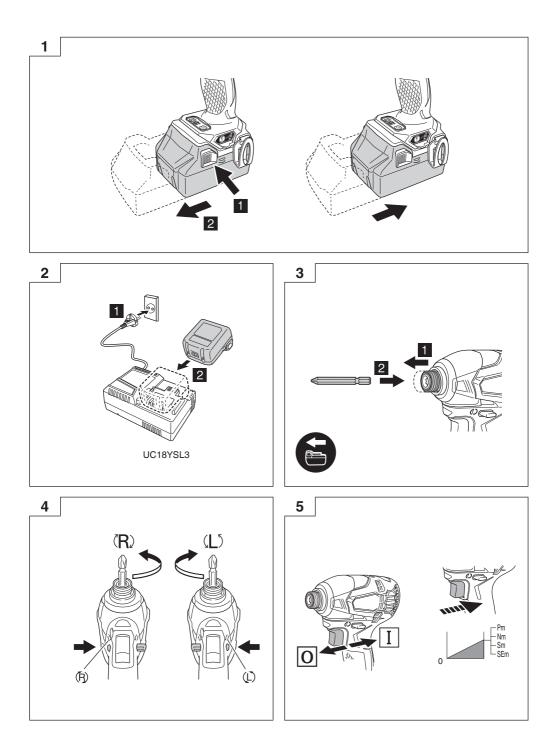
Use the inspections in the table below if the tool does not operate normally. If this does not remedy the problem, consult your dealer or the HiKOKI Authorized Service Center.

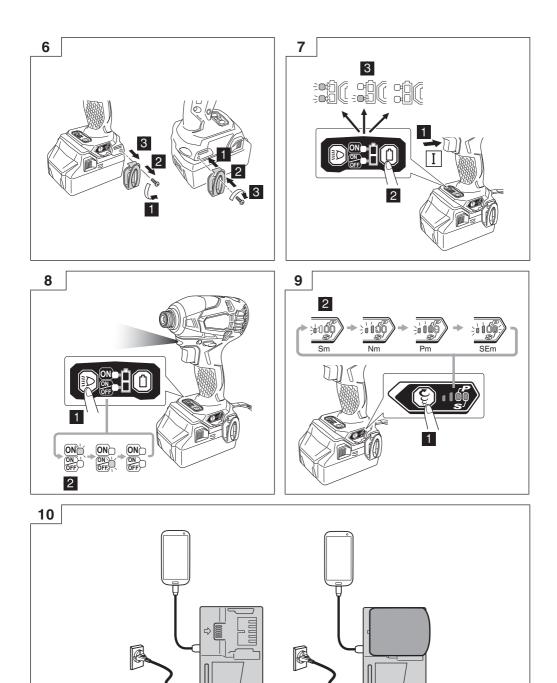
| Symptom  | Possible cause  | Remedy   |  |
|--|---|--|--|
| Tool doesn't run   | No remaining battery power  | Charge the battery.  |  |
|  | The trigger switch was held down while the battery was inserted.                              | The safety function was activated.<br>If the trigger switch is released once and<br>then pulled again, the tool will run.  |  |
| Tool suddenly stopped  | Tool was overburdened   | Get rid of the problem causing the overburden.   |  |
|  | The battery is overheated.  | Let the battery cool down.   |  |
|  | The trigger switch was held down for 5 minutes or more.                                       | This is not a malfunction.<br>The motor was automatically stopped to<br>prevent failure of the tool.   |  |
| Tool bits<br>-can't be attached  | The shape of the attachment portion doesn't match   | Use a bit with a hexagonal shaft that has a width across flats of 6.35 mm.   |  |
| -fall off  |   | If you are using an L-type tool bit, replace it with an S-type bit.  |  |
| Switch can't be pulled   | Forward/reverse selector button is<br>positioned halfway                                      | Press the button firmly into position for the desired direction of rotation.   |  |
| An abnormal high-pitched<br>noise occurs when the<br>trigger switch is pulled. | The trigger switch is being pulled only slightly.   | This is not a malfunction.<br>It does not occur if the trigger switch is<br>pulled more fully.   |  |
| Screw head slips or comes loose.   | Bit number doesn't match with the screw size  | Install a suitable bit.  |  |
|  | The bit is worn   | Replace with a new bit.  |  |
| The charge indicator lamp  | The battery is not inserted all the way.  | Insert the battery firmly.   |  |
| is rapidly flickers purple,<br>and battery charging<br>doesn't begin.          | There is foreign matter in the battery terminal or where the battery is attached.             | Remove the foreign matter.   |  |
| The charge indicator lamp  | The battery is not inserted all the way.  | Insert the battery firmly.   |  |
| blinks red, and battery<br>charging doesn't begin.                             | The battery is overheated.  | If left alone, the battery will automatically<br>begin charging if its temperature decreases,<br>but this may reduce battery life. It is<br>recommended that the battery be cooled in<br>a well-ventilated location away from direct<br>sunlight before charging it. |  |
| Battery usage time is short<br>even though the battery is<br>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<br>Center for repairs.   |  |

| Symptom  | Possible cause  | Remedy  |  |
|--|---|---|--|
| 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.<br>The charger pauses USB charging for about<br>5 seconds when it is differentiating between<br>power sources.                           |  |
|  | A battery was inserted into the charger while<br>the USB device was being charged using a<br>power socket as the power source.  |   |  |
| Charging of the USB device<br>pauses midway when the<br>battery and the USB device<br>are being charged at the<br>same time. | The battery has become fully charged.   | This is not a malfunction.<br>The charger pauses USB charging for<br>about 5 seconds while it checks whether<br>the battery has successfully completed<br>charging. |  |
| Charging of the USB<br>device doesn't start when<br>the battery and the USB<br>device are being charged<br>at the same time. | The remaining battery capacity is extremely low.  | This is not a malfunction.<br>When the battery capacity reaches a certain<br>level, USB charging automatically begins.  |  |

|                |             |      | WH18DBDL2   |
|----------------|-------------|------|-------------|
| V              |             | V    | 18          |
|                | Pm          | /min | 0 - 2900    |
| n.             | Nm          | /min | 0 - 2900    |
| n <sub>0</sub> | Sm          | /min | 0 - 900     |
|                | SEm         | /min | 0 - 2900    |
|                | S<br>CDDD   | mm   | 4 - 10      |
| Quin           |             | mm   | M5 - M18    |
| H mm           |             | mm   | M5 - M14    |
|                | SE<br>©==== | mm   | φ3.5 – φ6   |
| МТ             |             | N∙m  | 207         |
|                |             | mm   | 6.35 (1/4″) |
| kg kg          |             | kg   | 1.6         |

|          | WH18 | DBDL2 |
|----------|------|-------|
|          |      | (NN)  |
| UC18YSL3 | 1    | _     |
| BSL1860  | 2    | _     |
|          | 1    | _     |
|          | 1    | _     |

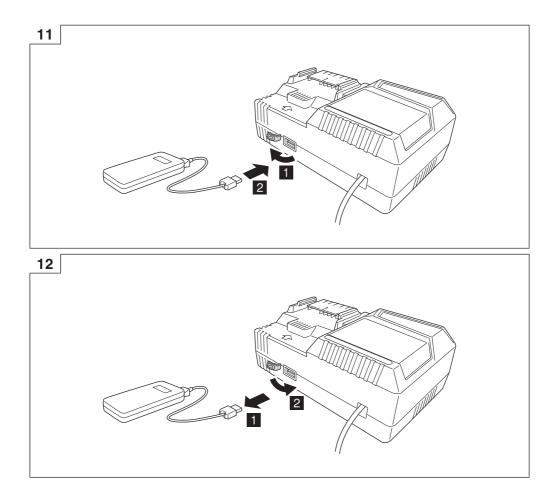






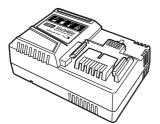
b

а

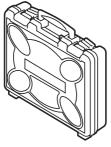


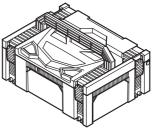


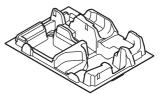
18V (Li-ion)



UC18YSL3 (14.4V - 18V)









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