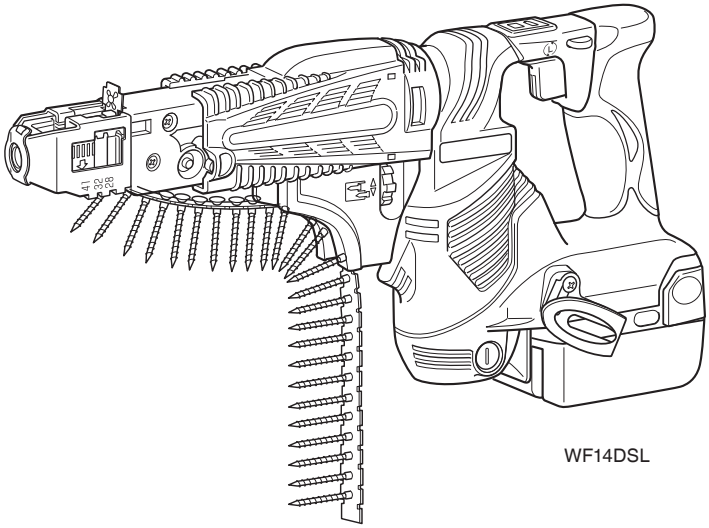
HiKOKI

Cordless Automatic Screw Driver

WF 14DSL • WF 18DSL



WF14DSL

Read through carefully and understand these instructions before use.

Handling instructions

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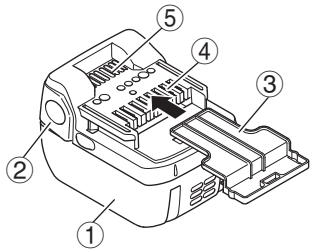

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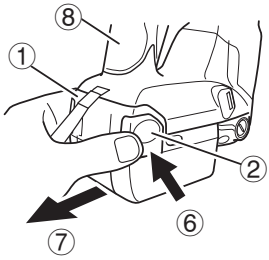

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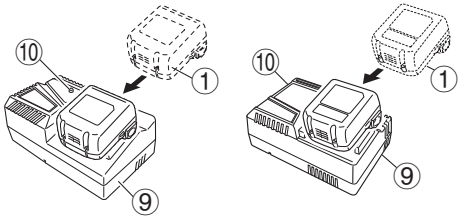

〈UC18YFSL〉 〈UC18YSL3〉

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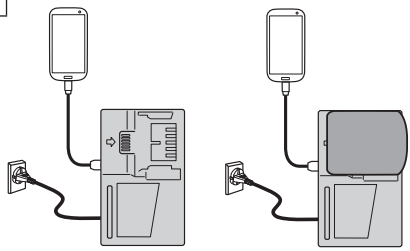

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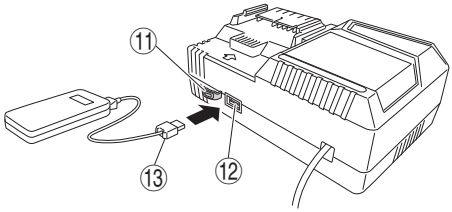

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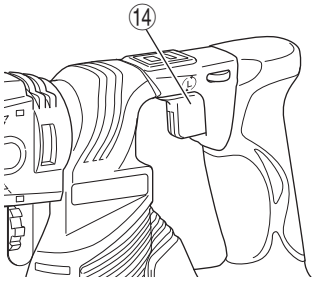

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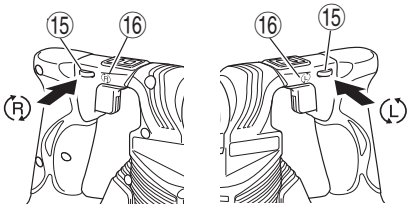

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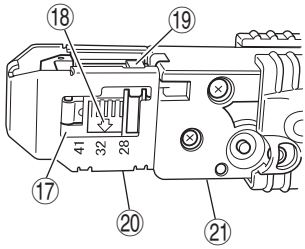

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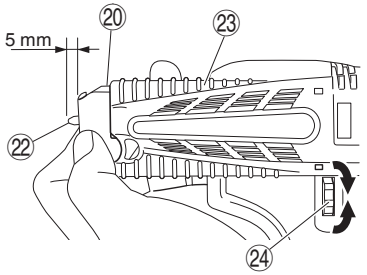

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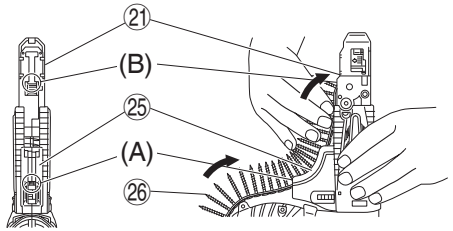

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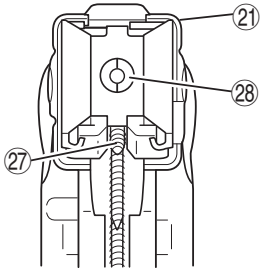

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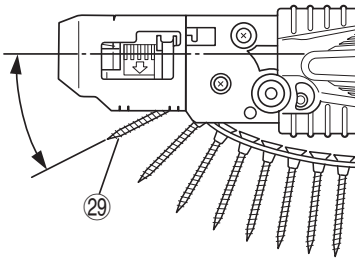

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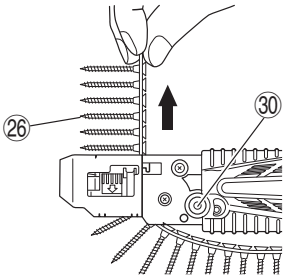

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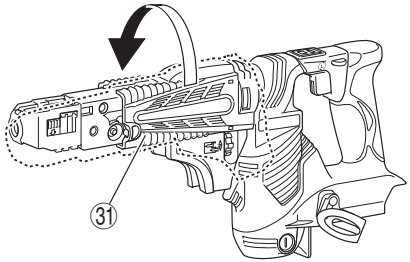

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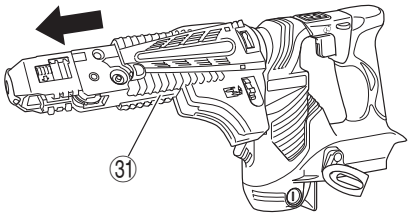

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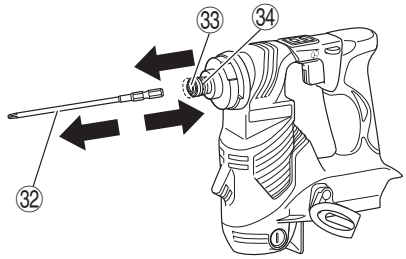

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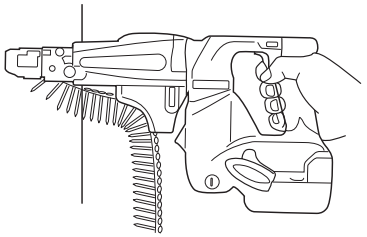

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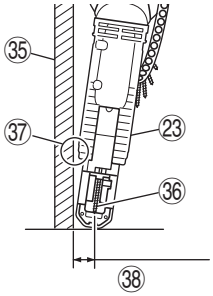

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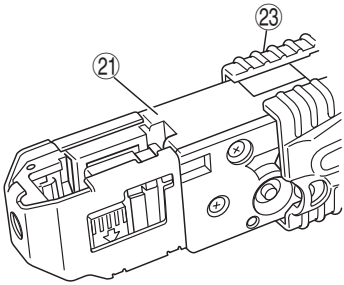

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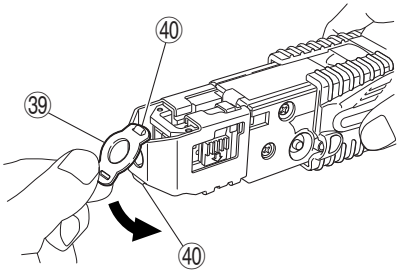

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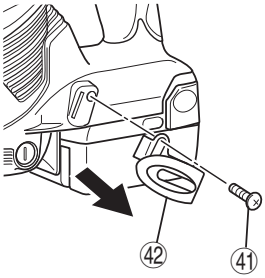

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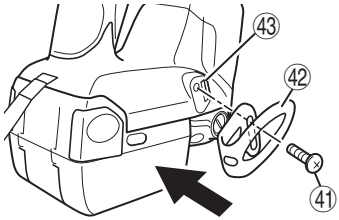

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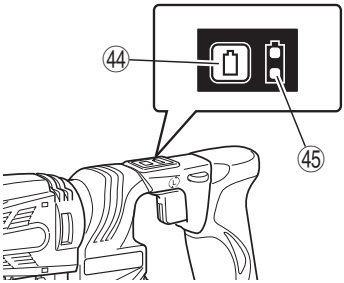

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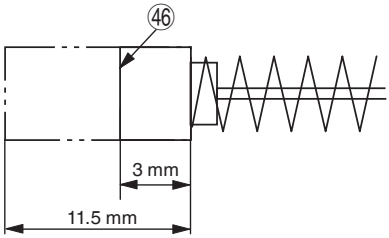

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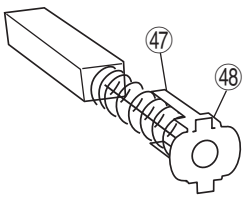

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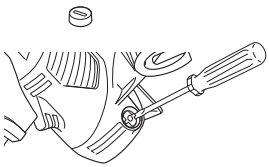

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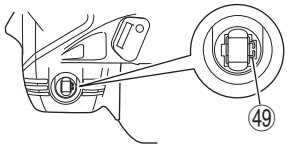


①	Rechargeable battery
②	Latch
③	Battery cover
④	Terminal
⑤	Ventilator
⑥	Push
⑦	Pull out
⑧	Handle
⑨	Charger
⑩	Charging time indicator lamp
⑪	Rubber cover
⑫	USB port
⑬	USB cable
⑭	Trigger switch
⑮	Selector button
⑯	(R) and (L) marks
⑰	Guide block
⑱	Arrow mark
⑲	Lever
⑳	Stopper
㉑	Slider
㉒	The tip of a bit
㉓	Slider case
㉔	Depth adjuster knob
㉕	Belt guide
㉖	Collated screw strips
㉗	Set on screw forward
㉘	Screw in position
㉙	1 screw forward
㉚	Release button

㉛	Screw feed attachment
㉜	Driver bit No.2 (136L)
㉝	Socket hexagonal hole
㉞	Guide sleeve
㉟	Wall
㊱	Screw
㊲	Guide to prevent damage to wall
㊳	15 mm over
㊴	Sheet
㊵	Protrusion
㊶	Screw
㊷	Hook
㊸	Groove
㊹	Remaining battery indicator switch
㊺	Remaining battery indicator lamp
㊻	Wear limit
㊼	Nail of carbon brush
㊽	Protrusion of carbon brush
㊾	Contact portion outside brush tube

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING
Read all safety warnings and all instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.
The term "power tool" in the warnings refers to your 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 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, 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 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.

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.

PRECAUTIONS FOR CORDLESS AUTOMATIC SCREWDRIVER

1. **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.
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. Short-circuiting 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. Using an exhausted battery will damage the charger.
8. 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.
9. When mounting a bit into the keyless chuck, tighten the sleeve adequately. If the sleeve is not tight, the bit may slip or fall out, causing injury.
10. This automatic screwdriver is designed for tightening and loosening screws. Use it only for these operation.
11. One-hand operation is extremely dangerous; hold the unit firmly with both hands when operating.
12. Use original bits specifically for the automatic screwdriver.
    Use no bits other than the original bits specifically for the automatic screwdriver. Use of any other bit can result in screws sticking out and screw feed malfunctioning.
13. After installing the driver bit, pull lightly out the bit to make sure that it does not come loose. If the bit is not installed properly, it can come loose during use, which can be dangerous.
14. Screw in screws with the main unit held straight.
    If the driver is slanted relative to the screw, the screw head can be damaged and the bit worn. Moreover, the prescribed torque is not transmitted to the screw, resulting in screws left sticking out. Place the drive straight against the screw and screw in.
15. Use the prescribed screws.
    Do not use any other screws. They can cause abnormal work (screws fallen over or sticking out) and break downs (screw jamming and bit wear).
16. Protect your eyes with protective glasses.
    Always wear protective glasses while working. Drilling scatters plaster powder and tape dust, which are dangerous if they get into your eyes.
17. Watch out for wires and pipes in walls and ceilings.
    When working on floors, walls, or ceilings, check for wires and pipes ahead of time. Work carefully to avoid shocks and explosions.
18. When the screw feed attachment is removed, always use the correct driver bit for the screw size.
19. When the screw feed attachment is removed, if the screwdriver is positioned at an angle against the tightening screw, the head of the screw may be damaged or the fixed tightening force will not transfer to the screw. Always position the tightening screw and the screwdriver at a straight angle and then tighten the screw.

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 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.

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.**
- **Either install the battery in the power tool or store by securely pressing into the battery cover until the ventilation holes are concealed to prevent short-circuits (See Fig. 1).**

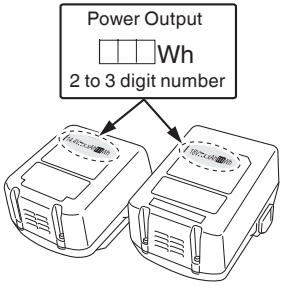
REGARDING LITHIUM-ION BATTERY TRANSPORTATION

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.



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

- 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.

SPECIFICATIONS

POWER TOOL

Model		WF14DSL			WF18DSL			
No-load speed		4200 /min						
Capacity	Screw size	4 mm						
	Screw length	25 – 41 mm						
Bit shank size		6.35 mm Hex.						
Rechargeable battery		BSL1430: Li-ion 14.4 V (3.0 Ah 8 cells)	BSL1440: Li-ion 14.4 V (4.0 Ah 8 cells)	BSL1450: Li-ion 14.4 V (5.0 Ah 8 cells)	BSL1830: Li-ion 18 V (3.0 Ah 10 cells)	BSL1840: Li-ion 18 V (4.0 Ah 10 cells)	BSL1850: Li-ion 18 V (5.0 Ah 10 cells)	BSL1860: Li-ion 18 V (6.0 Ah 10 cells)
Weight		2.0 kg			2.1 kg			

CHARGER

Model	UC18YFSL	UC18YSL3
Charging voltage	14.4 V – 18 V	
Weight	0.5 kg	0.6 kg

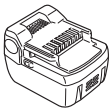
STANDARD ACCESSORIES

(1) Screw feed attachment 1
(Assembled in main body)
(2) No. 2 Plus Bit 3
(Assembled in main body : 1)
(3) Sheet 3
(Assembled in main body : 1)
(4) Plastic case 1
(5) Battery cover 2

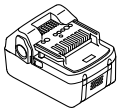
Standard accessories are subject to change without notice.

OPTIONAL ACCESSORIES (sold separately)

○ Battery



(BSL1430) (BSL1440)
(BSL1450)



(BSL1830) (BSL1840)
(BSL1850) (BSL1860)

Optional accessories are subject to change without notice.

APPLICATIONS

○ Screw driving into indoor gypsum board.

BATTERY REMOVAL/INSTALLATION

1. Battery removal
Hold the handle tightly and push the battery latch to remove the battery (see **Figs. 1** and **2**).

CAUTION
Never short-circuit the battery.

2. Battery installation
Insert the battery while observing its polarities (see **Fig. 2**).

CHARGING

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

1. Connect the charger's power cord to the receptacle.

<UC18YFSL>
When connecting the plug of the charger to a receptacle, the pilot lamp will blink in red (At 1-second intervals).

<UC18YSL3>
When connecting the plug of the charger to a receptacle, the charge indicator lamp will blink in red (At 1-second intervals).

CAUTION
Do not use the electrical cord if damaged. Have it repaired immediately.

2. Insert the battery into the charger. (Fig. 3)
Firmly insert the battery into the charger.

3. Charging

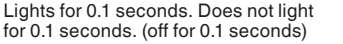
<UC18YFSL>
When inserting a battery in the charger, the pilot lamp will light up continuously in red.
When the battery becomes fully recharged, the pilot lamp will blink in red (At 1-second intervals). (See **Table 1-a**)

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

<UC18YSL3>
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-b**)

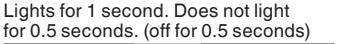
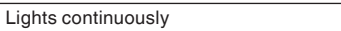
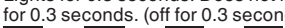
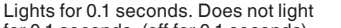
● Charge indicator lamp indication
The indications of the charge indicator lamp will be as shown in **Table 1-b**, according to the condition of the charger or the rechargeable battery.

Table 1-a

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

NOTE: When standby for cooling battery, UC18YFSL cools the overheated battery by cooling fan.

Table 1-b

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%
		Blinks (blue)	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

NOTE: When standby for cooling battery, UC18YSL3 cools the overheated battery by cooling fan.

(2) Regarding the temperatures of the rechargeable battery
The temperatures for rechargeable batteries are as shown in **Table 2**, and batteries that have become hot should be cooled for a while before being recharged.

Table 2 Recharging ranges of batteries

Rechargeable batteries	Temperatures at which the battery can be recharged
BSL1430, BSL1440, BSL1450, BSL1830, BSL1840, BSL1850, BSL1860	0°C – 50°C (UC18YFSL) -10°C – 50°C (UC18YSL3)

(3) Regarding recharging time
Depending on the combination of the charger and batteries, the charging time will become as shown in **Table 3.**

Table 3 Charging time (At 20°C)

Charger / Battery	UC18YFSL	UC18YSL3
BSL1430, BSL1830	Approx. 45 min.	Approx. 20 min.
BSL1440, BSL1840	Approx. 60 min.	Approx. 26 min.
BSL1450, BSL1850	Approx. 75 min.	Approx. 32 min.
BSL1860	Approx. 90 min.	Approx. 38 min.

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

CAUTION

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

4. Disconnect the charger's power cord from the receptacle.
5. Hold the charger firmly and pull out the battery.

NOTE

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

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 pilot lamp of UC18YFSL charger lights for 1 second, does not light for 0.5 seconds (off for 0.5 seconds), or the charge indicator lamp of UC18YSL3 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 pilot lamp or charge indicator lamp flickers in red (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 charger is taken out, wait for a minimum of 3 seconds before reinserting it to continue charging. If the battery is reinserted within 3 seconds, the battery may not be properly charged.
- If the pilot lamp or charge indicator lamp does not blink in red (every second) even though the charger cord is connected to the power, it indicates that the protection circuit of the charger may be activated.
Remove the cord from the power and then connect it again after 30 seconds or so. If this does not cause the pilot lamp or charge indicator lamp to blink in red (every second), please take the charger to the HiKOKI Authorized Service Center.

HOW TO RECHARGE USB DEVICE (ONLY WITH UC18YSL3 CHARGER)

(1) Select a charging method
Depending on the charge method selected, either the battery is inserted into the charger or the power cord is plugged into an outlet.
- Charging a USB device from an electrical outlet (**Fig. 4-a**)
- Charging a USB device and battery from an electrical outlet (**Fig. 4-b**)

(2) Connect the USB cable. (**Fig. 5**)
Pull back the rubber cover and firmly plug in a commercially available USB cable (appropriate to the device being charged) into the USB port.

(3) When charging is completed
- To verify charge status, check the USB device.
- Unplug the power cord from the electrical outlet.
- Place the rubber cover over the USB port.

PRIOR TO OPERATION

1. **Setting up and checking the work environment**
Check if the work environment is suitable by following the precautions.
2. **Preparing the screws**
Select screws appropriate to the application.
3. **Bit checking and replacement**
A No. 2 Plus bit is installed on this machine as a standard accessory. Always inspect the bit to make sure it is not damaged. Using worn bits can cause screw-in malfunctions. Inspect the bit before work and quickly replace it with a new one when it starts to wear out. When the bit must be replaced due to bit damage or any other reason, replace it according to the instructions in Bit installation and removal.

SWITCH ACTION (FIG. 6)

CAUTION

Before inserting the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Release the switch trigger to stop.

Reversing switch action (Fig. 7)

This tool has a reversing switch to change the direction of rotation. Depress the reversing switch lever from the (R) side for clockwise rotation or from the (L) side for counterclockwise rotation.

When the reversing switch lever is in the neutral position, the switch trigger cannot be pulled.

Pulling the switch trigger rotates the motor, but the bit does not rotate. The bit rotates and tightens a screw when the tip of the bit is pressed against the groove on the screw head.

CAUTION

- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.
- When not operating the tool, always set the reversing switch lever to the neutral position.

ADJUSTING THE SCREW LENGTH AND SCREW-IN DEPTH

1. Set the screw length (Fig. 8)
Set the screw length on this unit by sliding the guide block.
(1) Slide the guide block while holding down the lever and align the arrow on the guide block with the number on the stopper to match the screw length.
(2) Find the screw length and screw guide position by checking the table below.

STOPPER NUMBER	SCREW LENGTH
28	25 – 28 mm
32	32 – 35 mm
41	38 – 41 mm

2. Adjust the screw-in depth (Fig. 9)
Adjust the screw-in depth on this unit by turning the depth adjuster knob.
(1) Press the slider all the way in to the slider case. Then rotate the depth adjuster knob so that the bit tip protrudes about 5 mm.
(2) Try driving a screw and make fine adjustments as needed. To make the fine adjustment, rotate towards A (counterclockwise) if the screw head is too high after screw-in. If the screw head is too low after screw-in, then rotate towards B (clockwise).

INSTALLING AND REMOVING THE SCREW STRIP

1. Install (Fig. 10)
(1) Insert the tip of the linked screw strip into the belt guide groove (A section).
(2) Insert the tip of the tape into the slider groove (B section) and press inwards in the arrow direction.
(3) Set so the screw on the strip is just prior (1 screw width) to the screw-in position (**Fig. 11**, **Fig. 12**).

CAUTION
Set the screw strip securely inside. If not set securely, the bit might scratch the board surface (low feed pressure) or the screw might be wasted (too much feed pressure).

2. Removal (Fig. 13)
(1) If you run out of screws on the tape or want to remove a screw strip during a job, pull in the direction of the arrow as shown in the figure to remove.
(2) You can return the screw strip in the opposite direction by pressing the reverse button.

INSTALLING AND REMOVING THE BIT

CAUTION
To prevent the chance of an accident, always turn off the power switch and remove the battery from the body.

NOTE
When replacing the bit be sure to install it securely so it will not come loose or fall out later.

1. Removing the screw strip attachment
Grip the unit securely with one hand. With your other hand, rotate the screw strip attachment in the direction of the arrow in **Fig. 14**. Next pull in the direction of the arrow in **Fig. 15** and remove.

NOTE
This will be hard to remove if the lath or plaster powder attaches near the attachment slot. Clean this section carefully to prevent the lath or plaster powder from adhering here.

2. Attaching and removing the bit (Fig. 16)
No bits other than plus driver (Phillips) bits (No. 2, 136 mm long) can be used for screw strip tightening jobs.
Attach the bits securely using the following procedure.
Move the guide sleeve to the top edge, feed the bit into hexagonal hole on the anvil and then release the guide sleeve.
To remove, perform the above procedure in reverse order.

NOTE
The bit was not installed correctly (securely) if the guide sleeve will not return to its original position. Keep inserting the bit inside the hexagonal socket head hole until it makes contact.

3. Installing the screw strip attachment
Install using the steps in "1. Removing the screw strip attachment" in reverse order.

HOW TO USE

CAUTION
Always use safety goggles during the work.

Adjust the rotation direction to the clockwise (R).

1. How to operate
Press the unit straight up against the work and pull the switch trigger to automatically feed and tighten the screws (**Fig. 17**).

NOTE
- Place this unit straight up against the work during screw-tightening. Using the unit while at an angle to the work might damage the screw head or cause bit wear. Also the proper tightening torque will not be transmitted to the screw and might cause the screw to seat improperly.
- Press firmly on the unit until the screw tightening is complete. Loosening the pushing pressure on the unit might cause the screw to seat improperly.
- When driving the screw, avoid hitting the unit as pushing in.
  This could prevent the screw from being sent normally.
- Attempting to tighten one screw on top of another will cause the screw to fall or stop the screw feed so use caution.
- Driving blanks
  During continuous screw tightening, you might not notice you have run out of screws and continue to operate the unit. Driving without any screws will cause the bit to damage the lath or plaster board, so do the screw tightening while checking the number of screws remaining.
- If the slider does not move smoothly, try cleaning the sliding surfaces with an air gun, etc.

2. Using in corners (Fig. 18)
Unit can drive screws at positions as close as 15 mm from the wall.

NOTE
Do not attempt to drive screws when closer to the wall than 15 mm.
Do not drive screws while the slider case is in contact with the wall. Damaging the screw head causes bit wear. The proper tightening torque is not transmitted to the screw if the screw head or bit is worn. This might also cause the screw not to seat properly and might cause this unit to break.

3. Removing the screws
The tightened screws can be removed by rotating them for the reverse rotation (L) (counterclockwise).
Properly install the bit against the groove on the screw head, and pull the switch trigger while depressing the bit against the groove vertically.

Or, depress the bit against the groove on the screw head vertically while pulling the switch trigger.

4. **When the slider won't move smoothly**
   If the slider will not move smoothly, try cleaning the sliding surfaces of the slider and slider case with an air gun, etc. (**Fig. 19**).

NOTE

The unit tends to easily become covered with lath or plaster board dust during jobs where it faces upwards. Clean the sliding surfaces at regular periods during the work task.

5. **Attaching the sheet**
   If the sheet has been damaged and cannot be used, please replace the sheet with attached one. Attach the sheet by inserting the holes on the sheet on the two protrusions on the stopper (**Fig. 20**).
6. **Using the hook**
   The hook is used to hang up the power tool to your waist belt while working.

CAUTION

- When using the hook, hang up the power tool firmly not to drop accidentally.
  If the power tool is dropped, it may lead to an accident.
- When carrying the power tool with hooked to your waist belt, do not fit any bit to the tip of power tool. If the sharp bit such as drill is fitted to the power tool when carrying it with hooked to your waist belt, you will be injured.
- Install securely the hook. Unless the hook is securely installed, it may cause an injury while using.

(1) Removing the hook.
Remove the screws fixing the hook with Philips screw driver. (**Fig. 21**)

(2) Replacing the hook and tightening the screws.
Install securely the hook in the groove of power tool and tighten the screws to fix the hook firmly. (**Fig. 22**)

7. **About Remaining Battery Indicator**
   When pressing the remaining battery indicator switch, the remaining battery indicator lamp lights and the battery remaining power can be checked. (**Fig. 23**) When releasing your finger from the remaining battery indicator switch, the remaining battery indicator lamp goes off. The table 4 shows the state of remaining battery indicator lamp and the battery remaining power.

Table 4

State of lamp	Battery Remaining Power
	The battery remaining power is enough.
	The battery remaining power is a half.
	The battery remaining power is nearly empty. Re-charge the battery soonest possible.

As the remaining battery indicator shows somewhat differently depending on ambient temperature and battery characteristics, read it as a reference.

NOTE

- Do not give a strong shock to the switch panel or break it.It may lead to a trouble.
- To save the battery power consumption, the remaining battery indicator lamp lights while pressing the remaining battery indicator switch.

8. **Confirm that the battery is mounted correctly**

SCREW HANDLING

NOTE

Handle both the packed box of screws and the collated screw strips with care. If you drop them, screws can come out of the collated tape and cause screw feed malfunctions. Do not expose the screws to prolonged periods of direct sunlight or outside air. They can cause rust and collated tape problems, so when you will not be using the screws for awhile, put them in the screw packing box or the like.

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 by a new one.
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. **Inspecting the carbon brushes (Fig. 24)**
   The motor employs carbon brushes which are consumable parts. Since and excessively worn carbon brush can result in motor trouble, replace the carbon brush with new ones when it becomes worn to or near the "wear limit". In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

NOTE

When replacing the carbon brush with a new one, be sure to use the HiKOKI Carbon Brush Code No. 999054.

5. **Replacing carbon brushes**
   Take out the carbon brush by first removing the brush cap and then hooking the protrusion of the carbon brush with a flat head screw driver, etc., as shown in **Fig. 26**.
   When installing the carbon brush, choose the direction so that the nail of the carbon brush agrees with the contact portion outside the brush tube. Then push it in with a finger as illustrated in **Fig. 27**. Lastly, install the brush cap.

CAUTION

Be absolutely sure to insert the nail of the carbon brush into the contact portion outside the brush tube. (You can insert whichever one of the two nails provided).
Caution must be exercised since any error in this operation can result in the deformed nail of the carbon brush and may cause motor trouble at an early stage.

6. **Cleaning on the outside**
   When the driver drill 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.
7. **Storage**
   Store the driver drill in a place in which the tempera ture 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.

8. Service parts list

CAUTION

Repair, modification and inspection of HiKOKI Power Tools must be carried out by a HiKOKI Authorized Service Center.

This Parts List will be helpful if presented with the tool to the HiKOKI Authorized Service Center when requesting repair or other maintenance.

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

MODIFICATIONS

HiKOKI Power Tools are constantly being improved and modified to incorporate the latest technological advancements.

Accordingly, some parts may be changed without prior notice.

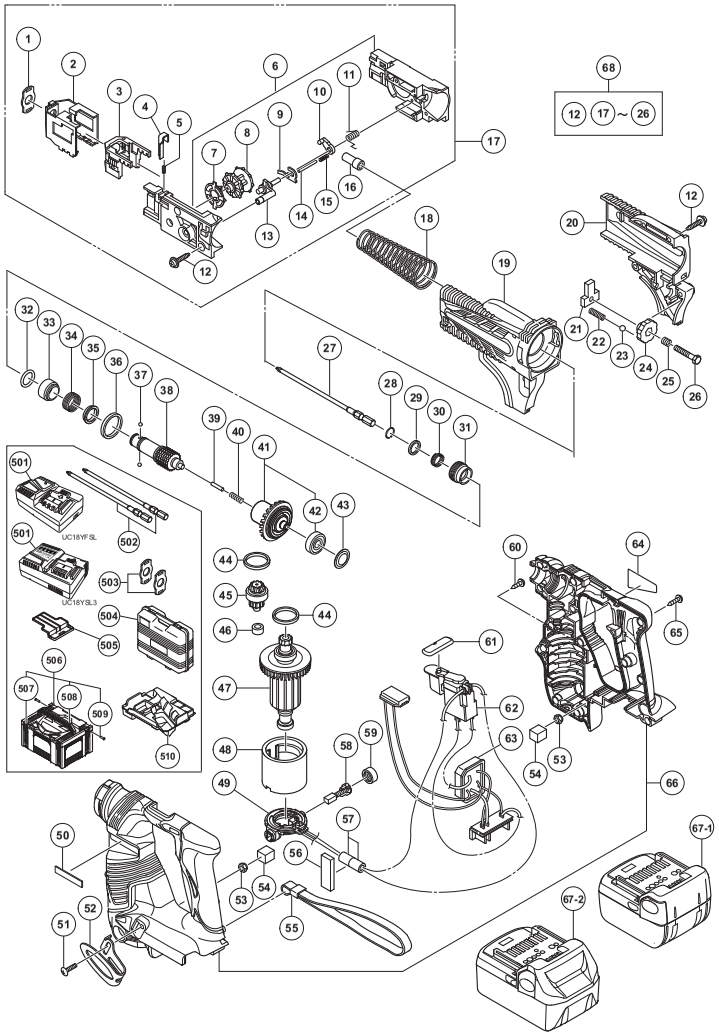
Important notice on the batteries for the HiKOKI cordless power tools

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.

WF14DSL / WF18DSL



ITEM NO.	PART NAME	Q'TY
1	SHEET	1
2	STOPPER	1
3	GUIDE BLOCK	1
4	PLATE (A)	1
5	SPRING(C)	1
6	SLIDER (A).(B) SET	1
7	CLUTCH PLATE	1
8	SPROCKET	1
9	STOPPER PLATE	1
10	ARM (B)	1
11	ARM SPRING	1
12	TAPPING SCREW (W/FLANGE) D4×20	6
13	ARM	1
14	PIN D2.5	1
15	SPRING	1
16	METAL (F)	1
17	SLIDER ASS'Y	1
18	SPRING	1
19	SLIDER CASE (A)	1
20	SLIDER CASE (B)	1
21	STOPPER PIN	1
22	SPRING (A)	1
23	STEEL BALL D3.175	1
24	KNOB	1
25	SPRING	1
26	BOLT M5	1
27	PLUS DRIVER BIT	1
28	RETAINING RING	1
29	WASHER (D)	1
30	GUIDE SPRING (C)	1
31	GUIDE SLEEVE (D)	1
32	O-RING (F)	1
33	METAL (F)	1
34	STOPPING SPRING	1
35	LOCKING FLANGE	1
36	DRUM METAL	1
37	STEEL BALL D3.5	2
38	SOCKET (A)	1
39	RUBBER SHAFT	1
40	SPRING(C)	1
41	CLUTCH DRUM ASS'Y	1
42	BALL BEARING 608VVC2PS2L	1
43	THRUST PLATE	1
44	RUBBER RING	2
45	SECOND PINION SET	1
46	NEEDLE BEARING	1
47	ARMATURE PINION SET	1
48	MAGNET	1
49	BRUSH BLOCK	1
50	BRAND PLATE	1
51	TRUSS HD. SCREW M4	1

ITEM NO.	PART NAME	Q'TY
52	HOOK	1
53	LOCK NUT M4	2
54	PACKING	2
55	STRAP	1
56	SUPPORT(D)	1
57	FERRITE CORE	1
58	CARBON BRUSH	2
59	BRUSH CAP	2
60	TAPPING SCREW D3×12	1
61	PUSH BUTTON	1
62	SWITCH	1
63	CONTROLLER TERMINAL SET	1
64	NAME PLATE	1
65	TAPPING SCREW (W/FLANGE) D3×16	12
66	HOUSING(A)(B) SET	1
67-1	BATTERY (BSL14 SERIES)	2
67-2	BATTERY (BSL18 SERIES)	2
68	SLIDER CASE ASS'Y	1
501	CHARGER (UC18YFSL / UC18YSL3)	1
502	PLUS DRIVER BIT	2
503	SHEET	1
504	CASE	1
505	BATTERY COVER	1
506	CASE ASS'Y (STACKABLE) (INCLUD. 507-509)	1
507	LATCH	4
508	HANDLE	1
509	HINGE	2
510	INNER TRAY	1

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