HiKOKI SV1813DA Cordless Random Orbit Sander Instruction Manual

HiKOKI

SV1813DA Cordless Random Orbit Sander
Instruction Manual

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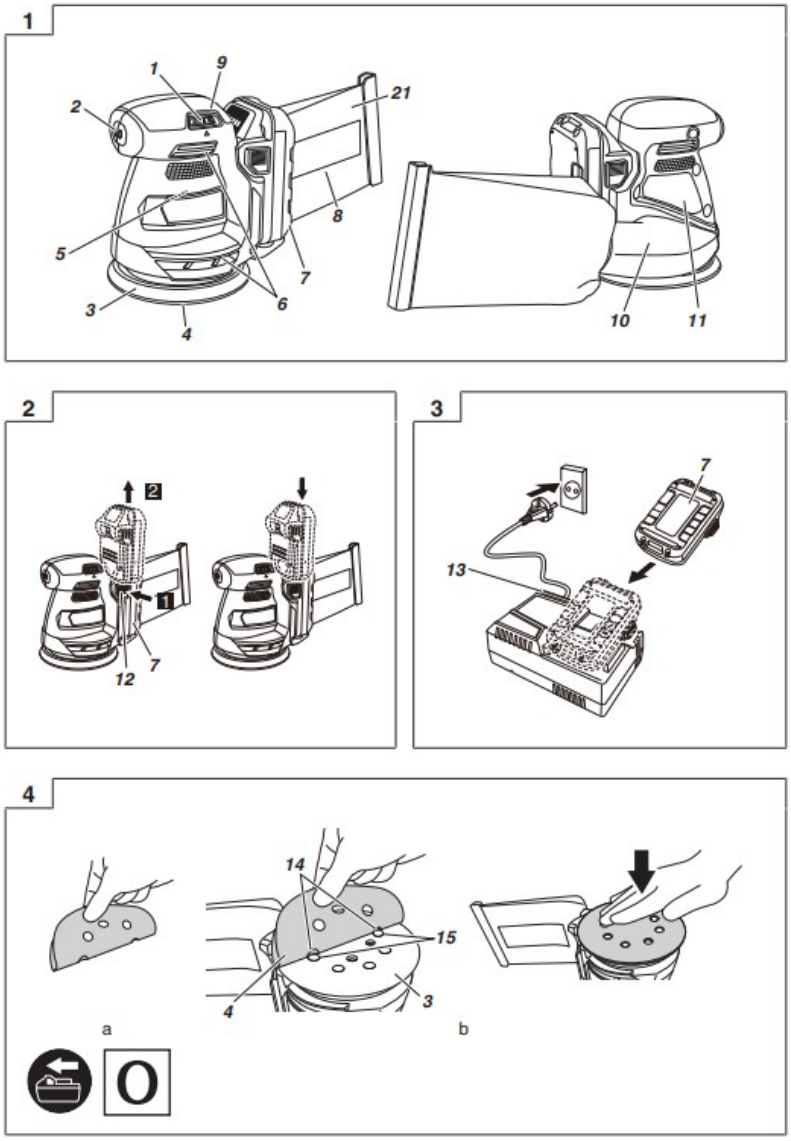
SV1813DA Cordless Random Orbit Sander



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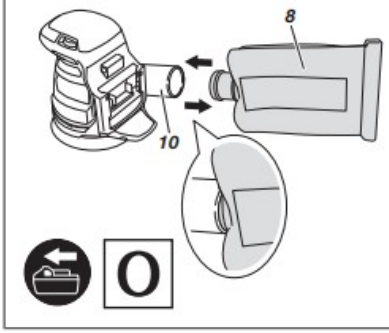

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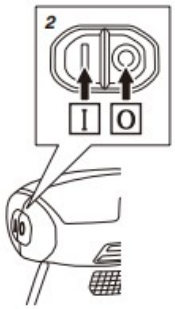

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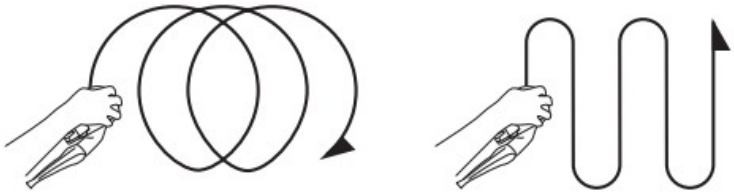
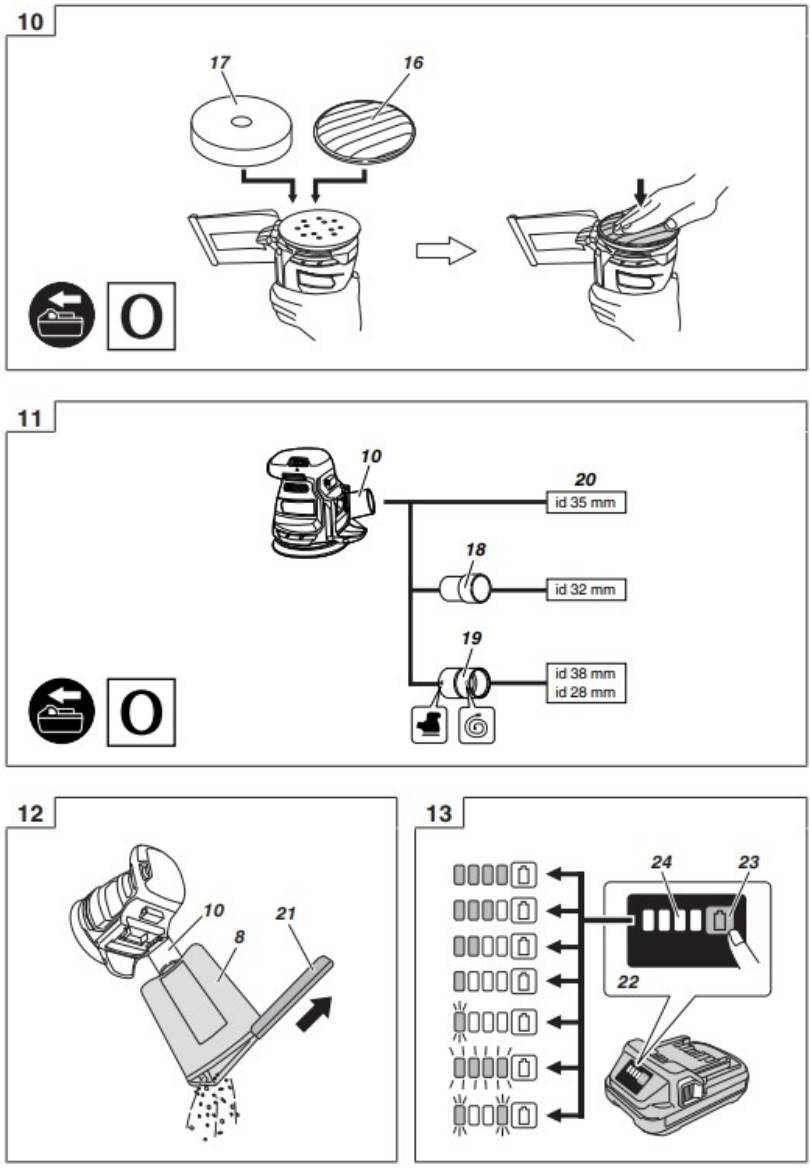




GENERAL POWER TOOL SAFETY WARNINGS

WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.
Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.
The term “power tool” in the warnings refers to your mains operated (corded) power tool or battery-operated (cordless) power tool.

1. Work area safety

   a) Keep work area clean and well lit.

   Cluttered or dark areas invite accidents.

   b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

   Power tools create sparks which may ignite the dust or fumes.

   c) Keep children and bystanders away while operating a power tool.

   Distractions can cause you to lose control.

2. Electrical safety

   a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.

   Unmodified plugs and matching outlets will reduce risk of electric shock.

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

3. Personal safety
   a) Stay alert, watch what you are doing and use common sense when operating a power tool.
   Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
   A moment of inattention while operating power tools may result in serious personal injury.
   b) Use personal protective equipment. Always wear eye protection.
   Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries
   c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.
   Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
   d) Remove any adjusting key or wrench before turning the power tool on.
   A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
   e) Do not overreach. Keep proper footing and balance at all times.
   This enables better control of the power tool in unexpected situations.
   f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.
   Loose clothes, jewellery or long hair can be caught in moving parts.
   g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.
   Use of dust collection can reduce dust-related hazards.
   h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.
   A careless action can cause severe injury within a fraction of a second.
4. Power tool use and care
   a) Do not force the power tool. Use the correct power tool for your application.
   The correct power tool will do the job better and safer at the rate for which it was designed.
   b) Do not use the power tool if the switch does not turn it on and off.
   Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
   c) Disconnect the plug from the power source and/ or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.
   Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.

Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean.

Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.

Use of the power tool for operations different from those intended could result in a hazardous situation.

h) Keep handles and grasping surfaces dry, cleanand 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.

CORDLESS RANDOM ORBIT SANDER SAFETY WARNINGS

Hold tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden

wiring. Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.

ADDITIONAL SAFETY WARNINGS

1. Use clamps or another practical way to secure and support the workpiece to a stable platform.
   Holding the workpiece by hand or against your body leaves it unstable and may lead to loss of control.
2. Attaching and removing the dust bag Prior to the sanding operation, make sure the material of surface you are going to sand.
   If the surface under sanding operation is expected to generate harmful / toxic dusts such as lead painted surface, make sure the dust bag or appropriate dust extraction system is connected with dust outlet tightly.
   Wear the dust mask additionally, if available.
   Do not inhale or touch the harmful / toxic dusts generated in sanding operation, the dust can endanger the health of yourself and bystanders.
3. Never apply water or grinding fluid when sanding. This could result in electrical shock.
4. Never turn the power switch ON when the sander is contacting the surface to be sanded. This is necessary to preclude damage to the material. The same applies when switching the power OFF.
5. DO NOT apply excessive pressure to the sander while sanding. Excessive-pressure may cause overload of the motor, reduced service life of the sanding paper, and lowered sanding or polishing efficiency.
6. Never touch moving parts. Never place your hands, fingers or other body parts near the tool’s moving parts.
7. NEVER leave tool running unattended. Turn power off.
   Don’t leave tool until it comes to a complete stop.
8. When operating the tool, do not wear work gloves as such cloth wear can get caught in the tool.
9. Do not leave the tool running. Operate the tool only when hand-held.
10. Make sure that there are no cracks, scratches, or other abnormalities on the pad before use.
11. Accessories must be securely mounted to the tool. Prevent potential injuries to yourself or others. Accessories which have been mounted to the tool should be secure and tight.
12. Use the sanding paper and accessories specified by HiKOKI.
13. When sanding metal, sparks are generated. Do not use the dust bag, and keep other persons and flammable substances away from the work area.
14. If you notice that the unit is generating unusually high temperatures, operating poorly, or making abnormal noises, immediately stop using and shut off the power switch. Request an inspection and repair from the dealer where you purchased the unit or a HiKOKI Authorized Service Center.
    Continuing to use while operating abnormally might cause injuries.
15. If the unit is mistakenly dropped or strikes another object, make a thorough check of the unit for cracks, breakage or deformation, etc.
    Injuries might occur if the unit has cracks, breakage or deformation.
16. When working at elevated locations, clear the area of other people and aware of conditions below you.
17. Always charge the battery at a temperature of 0°C– 40°C. A temperature of less than 0°C will result in over charging which is dangerous. The battery cannot be charged at a temperature higher than 40°C. The most suitable temperature for charging is that of 20°C–25°C.
18. Do not use the charger continuously.
    When one charging is completed, leave the charger for about 15 minutes before the next charging of battery.
19. Do not allow foreign matter to enter the hole for connecting the rechargeable battery.
20. Never disassemble the rechargeable battery and charger.

21. 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.
22. Do not dispose of the battery in fire. If the battery is burnt, it may explode.
23. 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.
24. Do not insert objects 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 a damaged charger.
25. 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.
26. Make sure that the battery is installed firmly. If it is at all loose it could come off and cause an accident.
27. 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.
28. 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.
29. Always use the tool and battery at temperatures between -5°C and 40°C.

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

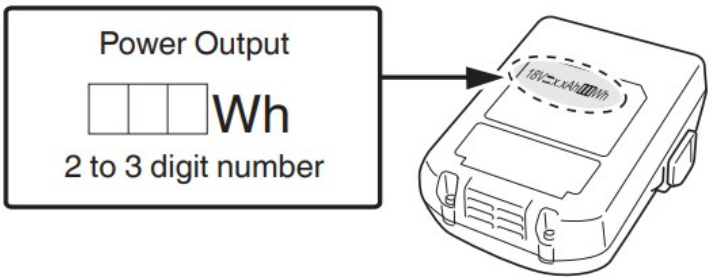
1. If liquid leaking from the battery gets into your eyes, do not rub your eyes and wash them well with fresh clean water such as tap water and contact a doctor immediately.
   If left untreated, the liquid may cause eye-problems.
2. If liquid leaks onto your skin or clothes, wash well with clean water 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.



NAMES OF PARTS

The numbers in the list below correspond to Fig. 1–Fig. 13

1	Dial
2	Switch
3	Pad
4	Sanding paper
5	Motor
6	Ventilation holes
7	Battery (sold separately)
8	Dust bag
9	Housing
10	Duct
11	Name plate
12	Latch
13	Charge indicator lamp
14	Sanding paper holes
15	Pad holes
16	Polyester buff
17	Polishing Sponge
18	Vacuum adapter (A)
19	Vacuum adapter (B)
20	Hose
21	Closure band
22	Display panel

23	Remaining battery indicator switch
24	Remaining battery indicator lamp

SYMBOL S

⚠ WARNING

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

	SV1813DA: Cordless Random Orbit Sander
	To reduce the risk of injury, user must read instruction manual.
	Direct current
V	Rated voltage
n0	No-load speed
/min	Revolution or reciprocations per minute
	Disconnect the battery
	Switching ON
	Switching OFF
	Warning
id	Hose inner diameter
	Attaching on the tool side (**Fig. 11**)
	Attaching on the dust collector hose side (**Fig. 11**)

STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed on page 20.
Standard accessories are subject to change without notice.

APPLICATIONS

- Roughing or finishing of woodwork and metal surfaces.

- Preliminary sanding of woodwork and metal surfaces before painting.
- Paint removal.
- Rust removal.

SPECIFICATIONS

1. Power tool

Model	SV1813DA
Voltage	18 V
No-load speed	7000–11000 /min
Diameter of orbit	3 mm
Sanding pad size (Outer diameter)	125 mm
Sanding paper size (Outer diameter)	125 mm
Weight	1.6 kg (BSL1820M)

NOTE
Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.
Electronic control
○ Brake function
Brake is activated when the switch is turned off, stopping the motor's rotation.
Battery

Model	Voltage	Battery capacity
BSL1820M	18 V	2.0 Ah

CHARGING

Before using the power tool, charge the battery as follows.
<UC18YSL3>

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. (See Table 1)
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, charging will commence and 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

ON/OFF at 0.5 sec. intervals (RED) 	Before charging *1
Lights for 0.5 sec. at intervals of 1 sec. (BLUE) 	Charged at less than 50%

Lights for 1 sec. at intervals of 0.5 sec. (BLUE) 	Charged at less than 80%
Lights continuously (BLUE) 	Charged at more than 80%
Lights continuously (Continuous buzzer sound: about 6 sec.) (GREEN) 	Charging complete
ON/OFF at 0.3 sec. intervals (RED) 	Overheat standby *2
ON/OFF at 0.1 sec. intervals (Intermittent buzzer sound: about 2 sec.) (PURPLE) 	Charging impossible*3

NOTE

1. If the red lamp continues to blink even after the charger has been attached, check to confirm that the battery has been fully inserted.
2. Battery overheated. Unable to charge. Although charging will start once the battery has cooled down even when left in situ, the best practice is to remove the battery and allow it to cool down in a shaded, well-ventilated location before charging.
3. Malfunction in the battery or the charger

   – Fully insert the battery.

   – Check to confirm that no foreign matter is stuck to the battery mount or terminals. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Take it to your authorized Service Center.

   ○ 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 5 minutes rest until the next charging.
   (2) Regarding the temperatures and charging time of the battery (See Table 2)

Table 2

Model		UC18YSL3
Type of battery		Li-ion
Charging voltage		14.4–18 V
Temperatures at which the battery can be recharged		0°C–50°C
Charging time for battery capacity, approx. (At 20°C)	1.5 Ah	15 min
	2.0 Ah	20 min
	2.5 Ah	25 min
	3.0 Ah	20 min (BSL1430C, BSL1830C: 30 min)
	4.0 Ah	26 min (BSL1840M: 40 min)
	5.0 Ah	32 min
	6.0 Ah	38 min

Charging time for multi volt battery capacity, approx. (At 20°C)	1.5 Ah (× 2 unit)	20 min
	2.5 Ah (× 2 unit)	32 min
	4.0 Ah (× 2 unit)	52 min
Number of battery cells		4–10
Weight		0.6 kg

NOTE

○ The recharging time may vary according to the ambienttemperature and power source voltage.

○ If charging takes a long time – Charging will take longer at extremely low ambient temperatures. Charge the battery in a warm location (such as indoors).

– Do not block the air vent. Otherwise the interior will overheat, reducing the charger's performance.

– If the cooling fan is not operating, contact a HiKOKI Authorized Service Center for repairs.

Disconnect the charger's power cord from the receptacle.

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.

MOUNTING AND OPERATION

Action	Figure	Page
Removing and inserting the battery*1	2	2
Charging	3	2
Installing the sanding paper*2	4	2
Attaching the dust bag*3	5	3
Switch operation	6	3
Adjustment of speed*4	7	3

Action	Figure	Page
How to hold the random orbit sander	8	3
How to move the random orbit sander*5	9	3
Installing the selecting accessories	10	4
Attaching the dust collector	11	4
Selecting accessories	—	21

*1 Removing and inserting the battery

CAUTION

Before installing or removing the battery, turn the switch to the OFF position.
If the battery is inserted with the switch in the ON position, the motor will operate unexpectedly.

*2 Installing the sanding paper

Since the attachment is a hook-and-loop type, the sanding paper can be installed easily by just pressing it onto the pad. Gently pinch and hold together two places on the edges of the sanding paper so that two holes are visible on the bottom. (Fig. 4-a)
Overlap the two holes of the sanding paper with two holes of the pad, and attach the whole surface of the sanding paper to the pad so that the remaining holes are also aligned. (Fig. 4-b)

*3 Attaching the dust bag

If too much dust accumulates in the dust bag, the dust collection power will be reduced.
Dispose of dust as soon as possible.

*4 Adjustment of speed

The sander is equipped with an electric control circuit that enables speed control. To adjust the speed, turn the dial shown in Fig. 7. When the dial is set to “1”, the sander operates at the minimum speed (7000 /min).
When the dial set to “6”, the sander operates at the maximum speed (11000 /min). Adjust the speed according to the material to be cut and working efficiency.

Material	Grain		Dial scale
	Rough grinding	Fineb grinding	
Paintwork: Sanding Repairs (scratches, rust spots) Stripping	 180 120 40	 400 240 80	 3–6 2–4 2–4
Wood: Softwood Hardwood Veneers	 60–80 60 240	 240 180 320	 3–6 3–5 2–4
Metals:	80 60 120	240 240 240	2–4 3–6 3–6

Note: Please use this table as a standard.
*5 How to move the random orbit sander
CAUTION

- Immediately after use, always ensure that the switch is in the OFF position and pull out the battery.
- Since the sander may suck in dust and debris, be careful not to place it where there is much dust and debris when it is still spinning right after use.
- Looking from above, the sanding pad rotates clockwise during the loaded operation, but it may rotate counterclockwise during the no-load operation.
- Never run the tool without the sanding paper. You may seriously damage the pad.
- Using the tool with the pad edge contacting the workpiece may damage the pad.

NOTE
Movement of the sander may tend to become unsteady after new sanding paper has been installed, because of the new, coarse grain of the paper. This can be avoided by slightly tilting the sander forward or backward during sanding or polishing. Sander movement will become steady as the sanding paper surface becomes properly abraded.

MAINTENANCE AND INSPECTION

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

1. Empting and cleaning the Dust Bag
   If the dust bag contains too much dust, dust collection will be affected. Empty the dust bag when it gets full. Remove the dust bag, open the closure band, and dispose of the contents. (Fig. 12)
2. Inspecting the sanding paper Since use of worn-out sanding paper will degrade efficiency and cause possible damage to the pad, replace the sanding paper as soon a excessive abrasion is noted.
3. 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.
4. 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.

5. 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.

6. Cleaning on the outside

   WARNING

   Wear protective glasses and a dust mask when cleaning the filter with an air gun. Failure to do so may result in inhalation or exposure of the eyes to debris or dust.

   Use an air gun or other similar tool to remove materials, chips, etc. which have adhered to the body, and 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 power tool and battery 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.

SELECTING ACCESSORIES

The accessories of this machine are listed on page 21.

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.

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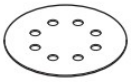
	(2BCP)
	1
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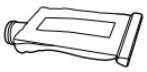	1
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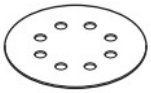

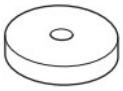
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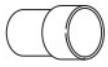
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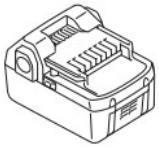


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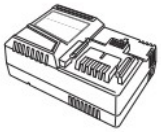
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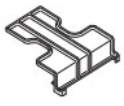
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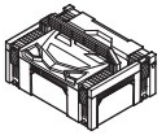
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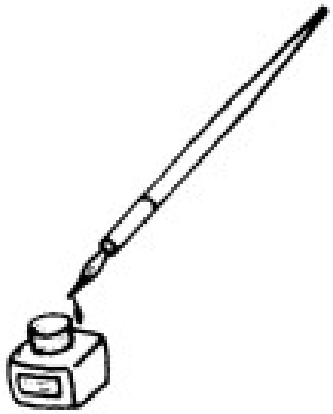

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Documents / Resources

	HiKOKI SV1813DA Cordless Random Orbit Sander [pdf] Instruction Manual SV1813DA, SV1813DA Cordless Random Orbit Sander, SV1813DA, Cordless Random Orbit Sander, Random Orbit Sander, Orbit Sander

References

- User Manual