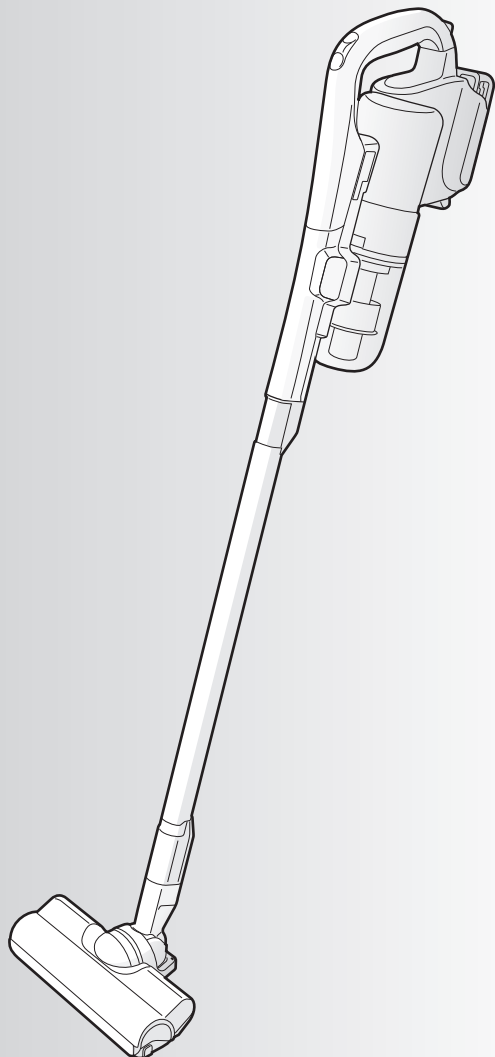


SHARP[®]

Model

EC-A1RAS



Reg. No. : I.31.STID2.00501.0516

Cordless Vacuum Cleaner Household use

Operation Manual

Penyedot Debu Nirkabel Penggunaan Rumah Tangga

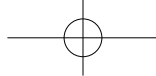
Panduan Operasional

เครื่องดูดฝุ่นด้ามจับไร้สาย สำหรับใช้ภายในครัวเรือน

คู่มือการใช้งาน

Máy hút bụi không dây Dùng cho gia đình

Hướng dẫn sử dụng



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SAFETY PRECAUTIONS 1






Matters that must be observed in order to prevent danger to humans and damages to property are explained.




- Descriptions of conditions that occur due to erroneous uses are classified in the following manner for the purpose of providing explanations.

 Danger	Details that relate to "matters with high probability of death or sustaining serious injury".	 Warning	Details that relate to "matters with probability of death or serious injury".	 Caution	Details that relate to "matters with probability of sustaining minor injury or damage to property".
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Warning Matters for preventing electrocution, fire disaster, electricity leaks and major injuries

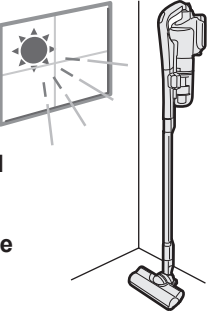
Charger

-  **Do not overload power outlets.**
(Risk of fire disaster or electrocution.)
-  **Do not damage the power plug or power cord.**
 - Do not force the cord or plug to bend
 - Do not pull the cord or plug
 - Do not twist the cord or plug
 - Do not bundle the cord
 - Do not pinch the cord or plug
 - Do not modify the cord or plug
 - Do not allow the cord or the plug to be tangled up in the Rotary brush of the Suction head
 - Do not scratch or damage the cord or the plug
 - Do not place any heavy object on top of the cord or the plug
(The cord may be damaged and cause fire disaster or electrocution.)
-  **Do not use any power outlet that is loose.**
-  **Do not insert or remove the power plug with wet hands.**
-  **Do not use any damaged power plug or power cord.**
(Risk of electrocution, short circuiting, ignition of fire or cause injury.)



-  **Always use the charger that is a genuine accessory.**
Do not use an extension cord.
(Risk of fire disaster, electrocution and product malfunction.)
-  **Remove dust on the power plug periodically. Remove the plug and wipe with a dry cloth.**
(Dust accumulating on the power plug may lead to insulation defects due to humidity and the like, which can cause fire disaster.)
-  **Securely insert the power plug to the base.**
(Incomplete insertion of a plug may cause fire disaster, electrocution or short circuiting.)

Location of using product and when product is in use

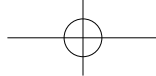
-  **Do not use the product near any substance that is flammable or allow such substance to be suctioned into the product.**
 - Kerosene, gasoline and incense
 - Benzene thinners
 - Cigarette stubs
 - Combustible substances such as toner
(Risk of explosion or fire disaster.)
-  **Never use the product in a location that is wet or where it can become wet such as a bathroom, or where there is high temperature and high humidity and never allow water to be suctioned into the product.**
(Risk of electrocution, short circuiting and ignition of fire.)
-  **Do not apply water or detergent on the vacuum cleaner body or the charger and do not wash them with water (excluding components that can be washed with water).**
(Risk of electrocution, short circuiting and ignition of fire.)
-  **Do not throw the product into a fire or heat it. Furthermore, do not place the product near fire or space heater, a location exposed to direct sun light or at a location with high temperature such as inside a car parked under the flaming sun and the like.**
(Risk of short circuiting, ignition of fire, liquid leakage and explosion.)



Stop using the product immediately when there is any abnormality or malfunction.

- 
 - The product does not always operate even when the switch is turned on.
 - Moving the power plug or the power cord of the charger results in the Charging lamp on the charger turning on and off.
 - Abnormal sound is emitted while the product is in operation.
 - Abnormally hot with the vacuum cleaner body or the charger deforming from heat.
 - Burning smell is emitted.
- 
 - Press the **OFF** and remove the battery from the vacuum cleaner body immediately.
 - Disconnect the power cord of the charger from the electrical outlet.

Refer to **EN-21 and 22** in "TROUBLESHOOTING" and contact your nearest service center approved by SHARP.



- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- If the Cord of the Charger is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The Suction head and Pipe (accessories) are only to be used with the appliance. Do not connect these accessories with the power outlet or plug, socket-outlet, connector or appliance inlet that is connected with the power outlet.

■ Details on the types of matters that must be observed are explained using following symbols.

Do not do this	Must do this
----------------	--------------



Caution

Matters for preventing electrocution, fire disaster and malfunction of vacuum cleaner body

When product is used



- **Never modify the structure of the vacuum cleaner body or the charger and do not disassemble and no one must repair the product unless the individual is a repair technician.**

(Risk of fire disaster, electrocution or injury.)
Contact your nearest service center approved by SHARP.

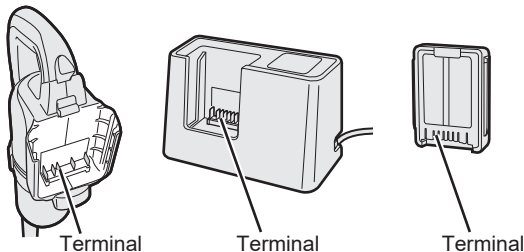
- **Do not touch the terminals of the charger or the battery while charging or immediately after completing charging.**

(Risk of burns.)

EN-7

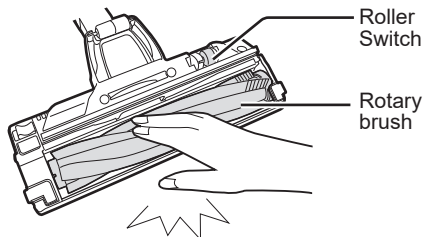
- **Do not touch the terminals of the vacuum cleaner body, the charger or the battery with a metal object such as a needle or a pin.**

(Risk of heating, ignition of fire, electrocution or product malfunction.)



- **Do not touch the Rotary Brush or Roller Switch (with safety stop mechanism).**

(Risk of injury of a hand or the like.)
Be particularly careful with children!



- **Must do the followings when servicing or inspecting the product**

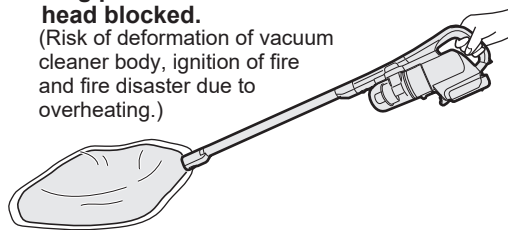
- Press the **OFF** and remove the battery from the vacuum cleaner body.
- Disconnect the power cord of the charger from the electrical outlet.
(Risk of electrocution or injury.)

When product is used



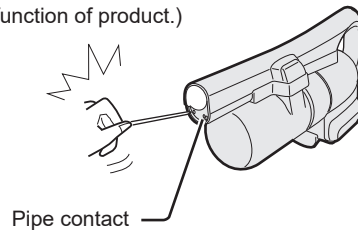
- **Do not block the air exhaust port**
- **Do not operate the product over a long period of time with the Suction head blocked.**

(Risk of deformation of vacuum cleaner body, ignition of fire and fire disaster due to overheating.)



- **Do not allow any metal objects or pins to enter in the pipe insertion slots, pipe contacts or air exhaust port.**

(Risk of electrocution and malfunction of product.)



- **Do not transport the product by holding on a pipe or the Dust Cup.**

(Risk of injury or malfunction of product when the vacuum cleaner body becomes dislodged or falls.)

Charger



Remove the plug

- **Be sure to remove the power plug from the power outlet by holding onto the power plug with a hand.**
- (Risk of electrocution, short circuiting and ignition of fire.)
- **Disconnect the power cord of the product from the electrical outlet when not using the product over a long period of time.**
- (Risk of electrocution, electric current leakage and fire disaster due to deterioration of insulation.)

SAFETY PRECAUTIONS **2**

Information on Battery



Danger

Preventing accidents and major injuries from electrocution or fire disaster and the like.



- Do not use the battery with any appliances other than the vacuum cleaners manufactured by Sharp and do not disassemble, modify or separately charge the battery.

(Risk of fire disaster, electrocution or injury.)

- Do not allow any metal object, such as a needle or a pin to contact a terminal and do not transport or store the product with such articles as necklaces or hair pins.
- Do not pierce the product with a nail, hit with a hammer, step on the product or otherwise give strong impact or throw the product.
- Do not use any battery that has been deformed or scratched from dropping and the like.
- Do not throw the product into fire or heat it.
- Do not place the product near fire or space heater, a location exposed to direct sun light or at a location with high temperature such as inside a car parked under the flaming sun and the like.
- Do not immerse or wet the product with water.
- Do not use any charger for a battery that is not specified by Sharp.

(Risk of heating, smoke generation, bursting, ignition of fire or liquid leakage.)



- Always use a battery that is specified by Sharp.

(Risk of heating, smoke generation, bursting or ignition of fire.)

- When the liquid from inside the battery leaks and comes in contact with the eye, do not rub and immediately rinse out the liquid from the eye using clean water such as tap water and receive treatment by a physician right away.

(Risk of harm to the eyes.)



Warning

Matters for preventing electrocution, fire disaster, electricity leaks and major injuries



- Do not use the battery when there is emission of smell, heat, liquid leakage, discoloration, deformation and any other abnormality that was not present previously.

(Risk of heating, smoke generation, bursting or ignition of fire.)

- Do not touch the battery with a wet hand.

(Risk of heating, ignition of fire or electrocution.)



- When the liquid from inside the battery leaks and comes in contact with the skin or clothing, immediately rinse out the liquid from the skin using clean water such as tap water.

(Risk of harm to the skin.)

- Keep the battery at a place that is out of reach of infants.

- Stop charging if the battery is not completely charged even after exceeding the prescribed charging time and replace the battery. (EN-4)



Caution

Matters for preventing electrocution, fire disaster and malfunction of base unit



- A battery must be charged in an environment with the temperature in the range of 5°C to 35°C.

(Risk of heating, generation of smoke, bursting and ignition of fire, as well as improper charging or deterioration of the battery.)

- Use and store the product in a location where it is not exposed to humidity or dust.


(Risk of heating, ignition of fire or electrocution.)




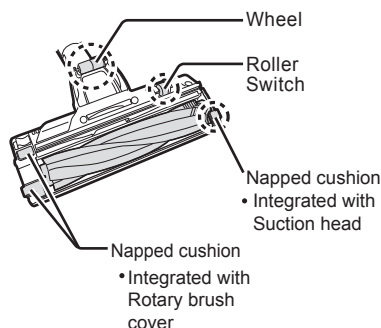
Tips

Precautions for Details

There may be cases where the floor surface is damaged when the roller switch on the bottom side of the Suction head, wheels or the Napped cushion is worn.

In the event the  part becomes worn it is necessary to replace it with a new one. Stop using the product and contact your nearest service center approved by SHARP.

- The replacement of the part for the  is performed while the product is left with Sharp.
- Replacement part (Rotary brush cover) is available for purchase.



- Do not suction any of the following types of items (Risk of scratching of the product interiors and clogging of the product, as well as product malfunction).

- Liquid or moist dirt. • Twines • A large amount of sand.
- Sharp objects (glass, razor blade and the like).
- Large dirt or a large amount of dirt suctioned at the same time.

- Clean respective filters when fine powder (plaster, cement, chalk and the like) has been suctioned. (EN-15 and 16)

- Do not operate the product while the Dust cup assembly has been removed. (EN-5)

- This product is for indoor use only.

- Do not hit the Suction head hard on the steps on the floor surface or gaps in floor heights, as well as furniture or wall (Risk of the floor surface becoming scratched).

- Do not apply lubricant to the Rotary brush (Risk of plastic parts cracking).

- Do not drag the charger (Risk of scratching on the floor surface).

- There are instances where the operation of the product causes noise to appear on the screen of television sets. There is no negative impact on the television set when this occurs.

- This cordless vacuum cleaner is intended for household use and must not be used for commercial applications. Furthermore, the product must not be used for any purpose other than cleaning.

When the product is not used for a long time.

- Remove the battery from the base unit and completely charge the battery before storing. (EN-7)

It is recommended that the power plug of the charger be removed from the power outlet. The charger consumes about 0.5 W of power while the power plug is connected to the power outlet. Removing the power plug when the charger is not in use can keep down wasteful power consumption.

- Consider following precautions when storing the battery.

Do not transport or store the product together with any metal object, such as a needle, necklace or hair pin.

Furthermore, store the product in a location where there is little humidity or dust.

(Risk of heating, ignition of fire or electrocution.)

Replacing Battery

Batteries are consumable products. The operating time gradually becomes shorter as the battery deteriorates with repeated use. Although the deterioration of batteries vary depending on the condition of use or operating environments, the battery should be replaced if any of the following conditions apply.

- When the operating time is extremely short even when the battery has been charged.
- When the Charging lamp (red) of the charger blinks slowly whenever charging in an environment with room temperature of between 5°C and 35°C.

• Recommended time for replacing the battery. (EN-6)

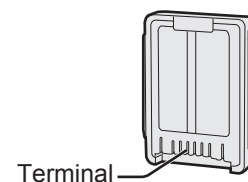
(There is no malfunction if the the Charging lamp (red) on the charger blinks slowly when charging in an environment with a low temperature (about 5°C or lower) or a high temperature (about 35°C or higher). Charge the battery in an environment that is between 5°C to 35°C.)

We invite you to recycle the spent battery.

The battery (lithium-ion battery) is a precious resource that can be recycled. Bring in the spent battery to a store that accepts batteries for recycling, rather than disposing of them as waste material.

Information on handling of spent battery.

Insulate the terminal sections using plastic tape or the like that are available on the market. Furthermore, do not disassemble the product.

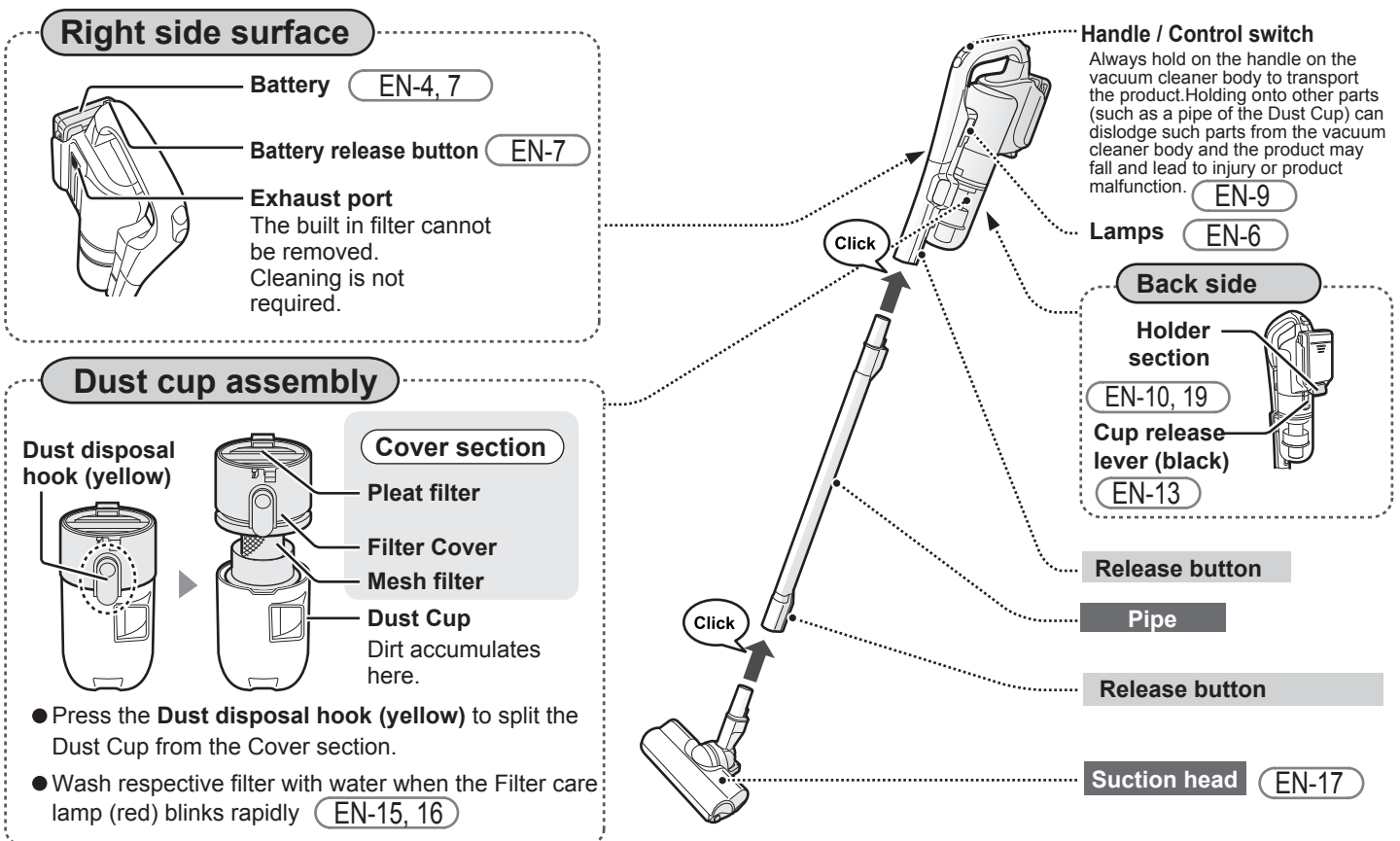


PART NAMES

Names of each part and how to assemble

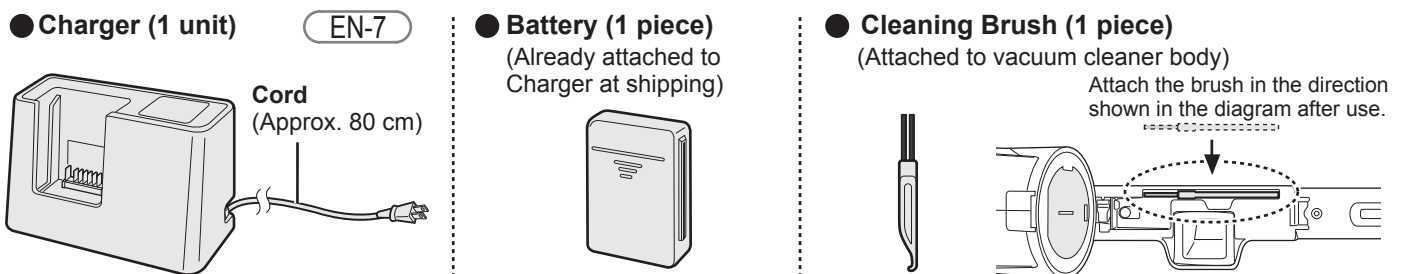
When using the product in the Stick state

- Press **Release button** to remove respective parts.

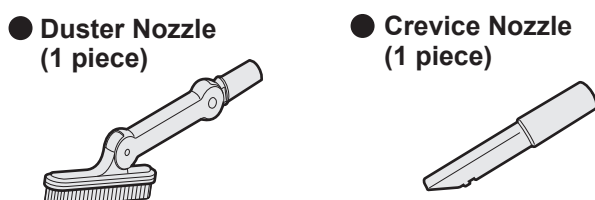


Accessories

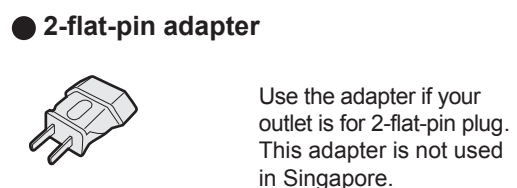
The **Suction head** and **Pipe** described above are also accessories.



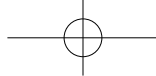
Enclosed Nozzles (EN-11, 12)



Plug Adapter (1 piece)

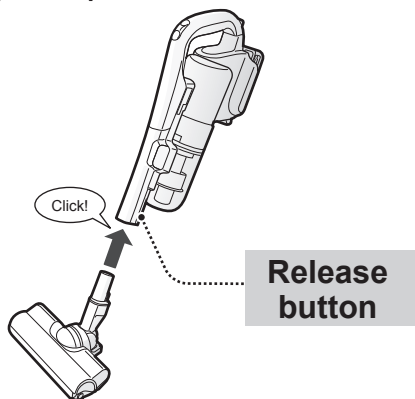


EN-5



When using the product in the Handy state

- Press **Release button** to remove respective parts.



Tips for making the battery last

Charge the battery every time the product is used, regardless of how long it was used.

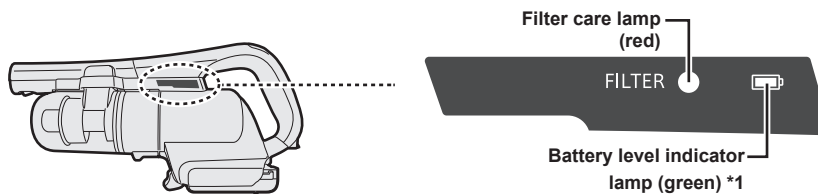
- The battery lasts longer when charged before the charge level becomes low.
- Leaving a discharged battery without charging will lead to the deterioration of the battery.



When the product is not used for a long time **EN-4**

Recommended Time for replacing the battery About 1,100 times of charge/discharge ◆

- ◆ According to tests conducted based on Sharp's standard for repeatedly charging and charge/discharge a battery. The life of a battery can vary depending on the conditions of use and the environment.

Lamps notify status of the vacuum cleaner body

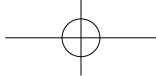


Lamp State		Indicated State/ Explanation
Filter care lamp (red) 	Turned on *2	Empty the dust cup and clean the filter. EN-13, 14 The filter of the Dust cup assembly is dirty.
	Fast blinking	Clean the filter by rinsing with water. The filter of the Dust cup assembly is clogged with dust. EN-15, 16 The vacuum cleaner body is overheating. Leave the product in a cool place for a while. Operating the product without allowing it to cool leads to the overheating protection circuit of the vacuum cleaner body triggering, which disables the product for some time.
Battery level indicator lamp (green) 	Turned on	There is sufficient charge remaining in the battery.
	Blinking	The charge remaining in the battery is low.
	Fast blinking	The charge remaining in the battery is quite low. (There is no charge remaining in the battery.) Charge the battery. EN-7

*1 The Battery level indicator lamp is turned on in following situations. (The lamp is not turned on when there is no charge left in the battery.)

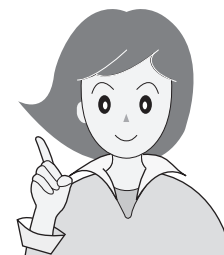
- About 5 seconds after the battery is reinstalled on the vacuum cleaner body.
- While using the product for cleaning
- About 5 seconds after pressing the **OFF** and stopping the operation of the product.

*2 The lamp may also turn on when the Suction head is clogged even when the filter is not dirty. In such instances, press the **OFF** and then restart operation to turn the lamp off.



PREPARATION

See **EN-6** for tips for making the battery last.

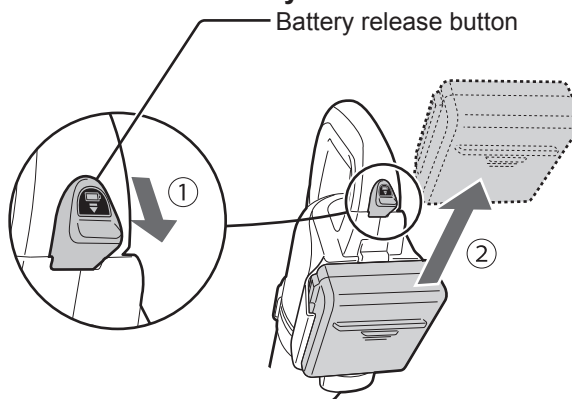


Charging battery

The battery is not charged when the product is purchased, so the battery must be removed from the vacuum cleaner body and charged until the Charging lamp on the charger is turned off.

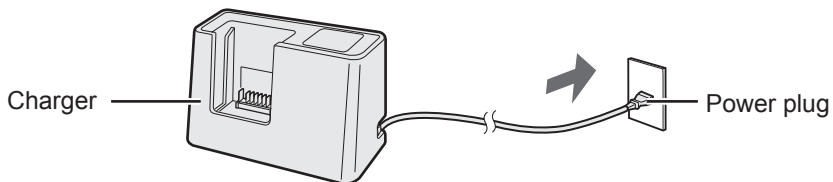
1 Remove the battery from the vacuum cleaner body.

- ① Press the Battery release button in the direction of the arrow
- ② Remove the battery by sliding it in the direction of the arrow.



2 Insert the power plug of the charger in the power outlet.

In case your outlet is for 2-flat-pin plug, use the enclosed adapter. (Make sure the plug is fully inserted into the plug adapter.)



3 Set the battery on the charger and recharge.

Align the terminals.

Insert securely to as far as it goes.

Verify that the Charging lamp (red) is turned on.

- If the lamp blinks (repeating the "blinking" in intervals of about one second) the battery has not been securely inserted. Insert the battery securely to as far as it goes.

Lamp state	Charging status	Estimated duration from start of charging*
Turned on	Charging	-
Turned off	Charging completed (fully charged)	About 80 minutes

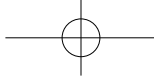
※ The estimated duration of time required for charging varies depending on the remaining charge in the battery at the time charging starts.

Notices

● The charger or the battery becomes hot while charging, but this is not abnormal.

CAUTION

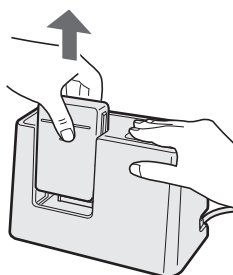
● Do not touch the terminals of the charger or the battery since they become hot while charging or immediately after completing charging. [Risk of burns.]



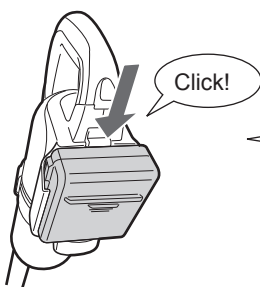
4

Insert the battery into the vacuum cleaner body.

① Remove the battery from the charger.

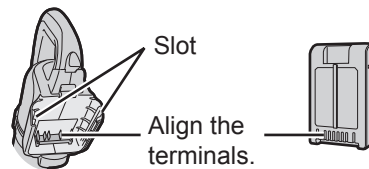


② Insert the battery into the vacuum cleaner body.



Securely insert the battery along the grooves on the vacuum cleaner body until the "click" sound is emitted.

● Once the terminals are connected, the Battery Level Indicator lamp on the vacuum cleaner body turns on for about five seconds to notify the remaining charge in the battery. Be sure to securely insert the battery until the "click" sound is heard, even if the lamp starts to light up during the process.



Notices

In cases where charging is not possible, verify followings.

- Is the power plug of the charger dislodged?
- Is there any dirt or foreign matter attached to a terminal of the charger or the battery? Remove the dirt or foreign matter with dry cloth. (EN-17, 18)
- Is the battery correctly set to the charger?

Information on Charging

- The charging time may be long in following cases.
 - When not in use for long period of time
 - The battery is charged in an environment at a low temperature (approx. 5°C or lower) or a high temperature (approx. 35°C or higher) (charge the battery in an environment with at room temperature between 5°C and 35°C).

Information on operating time

- The operating time gradually becomes shorter as the battery is used repeatedly.
- When the remaining charge in the battery becomes low, the Battery level indicator lamp (green) blinks to notify the status. (EN-6)

Continuous operation time*

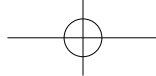
High mode	About 8 minutes
Standard mode	About 30 minutes

※ When a single battery is used (fully charged and initial condition of the battery / 20°C). Conditions may vary depending on the material of the floor surface, environment in which the product is used and the condition under which the product is used.

The Charging lamp (red) of the charger blinks slowly)

- If the blinking occurs when the room temperature is between 5°C and 35°C, then it is time to replace the battery. (EN-4)
- There is no malfunction if the product blinks in an environment with a low temperature (about 5°C or lower) or a high temperature (about 35°C or higher). Charge the battery in an environment that is between 5°C to 35°C.

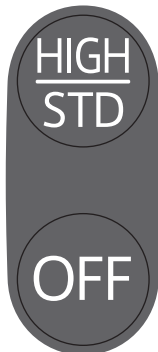
(When the Charging lamp (red) of the charger rapidly blinks, that may be caused by malfunction of the charger, or deterioration or malfunction of the battery. Contact your nearest service center approved by SHARP.)



VACUUMING 1

Flow of cleaning process

Control switch



Start



The mode toggles between the "High mode" and the "Standard mode" each time it is pressed.

High mode: When cleaning with maximum suction power.

Standard mode: When cleaning with subdued suction power.

(When a mat or a rug tends to block the Suction head, for instance.)

Finish




Cleaning completed

Charging the battery

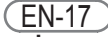
EN-7

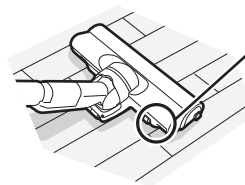
● Disposing of dirt is recommended after each cleaning session, for the purpose of hygiene. EN-13, 14

Notices

- The Rotary brush of the Suction head automatically turns when the cleaning starts.
- Even when a cleaning session is completed in the Standard mode, the operation starts with the High mode if the  is pressed the next time.
- When the remaining charge in the battery becomes depleted while operating, the operation is automatically stopped to prevent excessive discharge that can deteriorate battery. Always charge the battery each time the product is used for cleaning, regardless of how long it was used.


Safety Stop

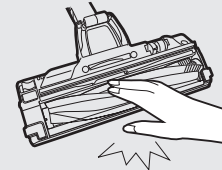
The Rotary brush stops automatically for safety purpose when the Suction head (roller switch on the bottom side ) is off the floor while cleaning. The operation does not stop in such instances. The rotation restarts when the Suction head contacts the floor and moved.

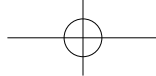


Even when the Suction head contacts the floor if the Roller Switch is off the floor the operation is temporarily suspended.

CAUTION

- Do not touch the Rotary Brush or Roller Switch while the operation is temporarily suspended. [Risk of injury when the Rotary brush starts to operate] Be sure to press the  to stop the operation when cleaning the Suction head.





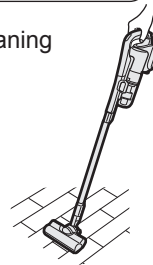
Tips for Vacuuming

★ **Move the Suction head so that it moves lightly and glides slowly.**

More dirt is suctioned this way than quickly moving the Suction head back and forth. This also prevents scratching of the vacuum cleaner and the floor surface.

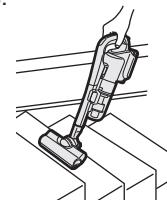
Stick state

- For cleaning floors.



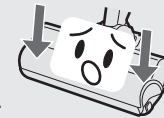
Handy state

- For cleaning stairs.



CAUTION

- Always install the Suction head or an Accessory Suction head when cleaning. [Risk of scratching of floor surface or product malfunction]
- Do not clean while pressing the Suction head hard against the floor surface. The wheels and Napped cushions (EN-17) may wear quickly and scratch the floor surface.
- Moving the Suction head (wheel) sideways or diagonally can result in scratches and markings on the floor surface.
- There are instances where the rotation of the wheels deteriorate due to the entanglement of pet hair and the like on the wheels. Be sure to clean the wheels often. (EN-17)



The product can be left in the conditions depicted in the diagrams below when pausing the cleaning operation.

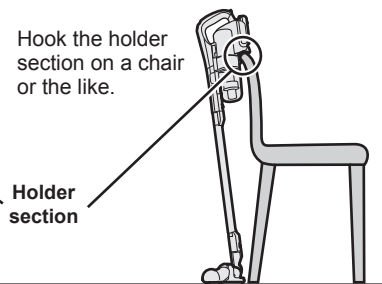
Resting the vacuum cleaner

Hook the holder section onto a table or the like.



Standing state

Hook the holder section on a chair or the like.



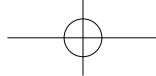
Holder section

- Always press the OFF and stop the operation of the product.
- Place the product on a flat floor.

CAUTION

- Keep the Suction head contacting the floor surface when pausing the cleaning operation. [Risk of falling or tumbling of the product]
- Verify that there is nothing in the vicinity of the product that can be damaged easily when standing the vacuum cleaner body leaned on an object. Pay particular attention to ensure no infant or pet is allowed to get near the product.
- Do not leave the product while leaning on an object.

EN-10



VACUUMING 2

Using accessory nozzles (Duster nozzle and Crevice nozzle)

Duster nozzle

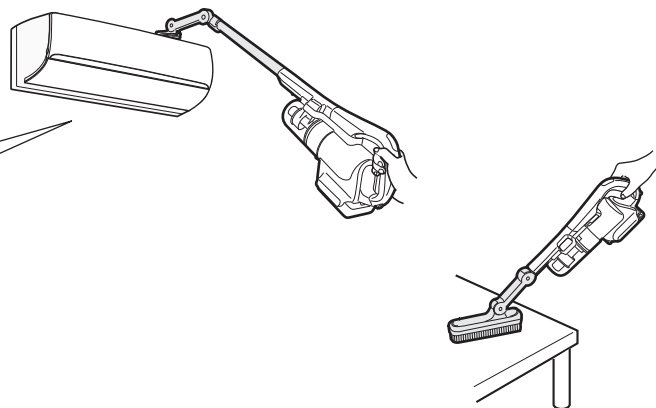


- The accessory may be used by attaching on the vacuum cleaner body or on a pipe.
- For cleaning high places, such as above furniture.

Do not press the **OFF** while operating when cleaning with the vacuum cleaner body facing up.

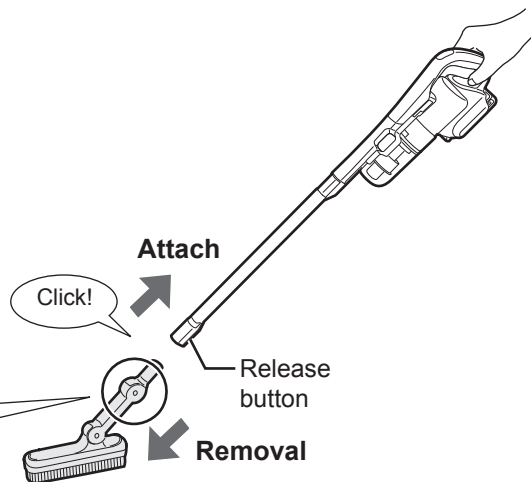
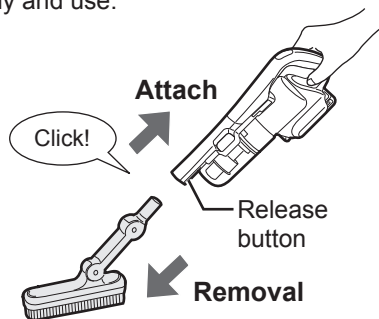
Press the **OFF** after facing the Suction head downward to stop the operation.

Pressing the **OFF** while the product is facing up may lead to the dirt spilling out of the vacuum cleaner body.

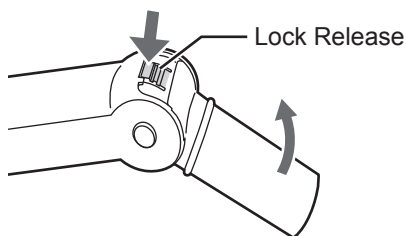


Use

- Insert securely and use.



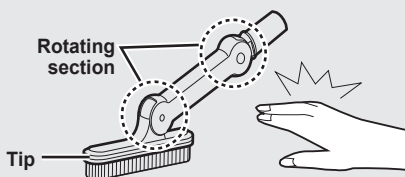
Turn while pressing the Lock Release to change the angle.



- Press the Release button for the vacuum cleaner body or the pipe to remove the accessory.

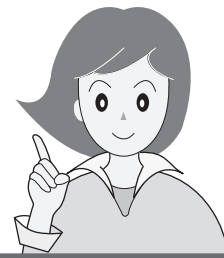
CAUTION

- Careful not to pinch a hand or a finger in the rotating section when changing the angle!





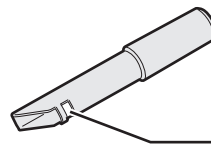
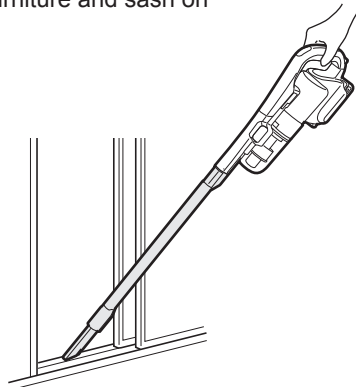
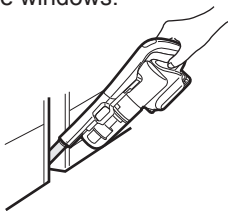
※ Do not use the product to clean items that scratch easily, such as a piano.



Crevice nozzle



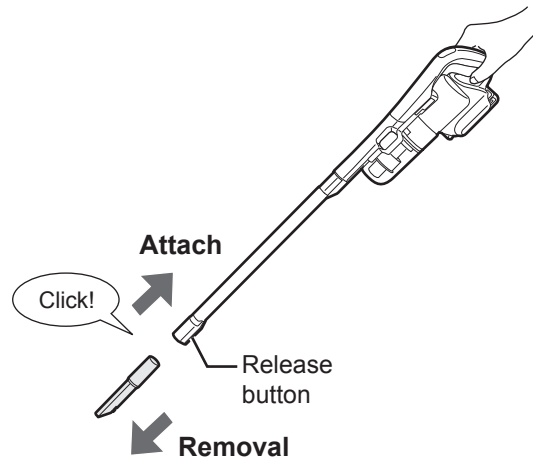
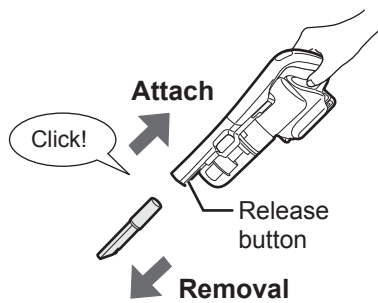
- The accessory may be used by attaching on the vacuum cleaner body or on a pipe.
- For cleaning gaps between furniture and sash on the windows.



This is a hole intended to prevent overheating of the motor in an enclosure. Do not block the hole.

Use

- Insert securely and use.



- Press the Release button for the vacuum cleaner body or the pipe to remove the accessory.

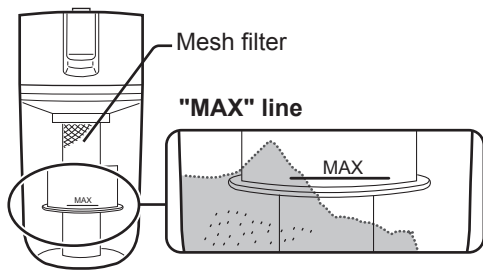
CAUTION

- Careful not to pinch a hand or a finger!

EMPTYING THE DUST CUP

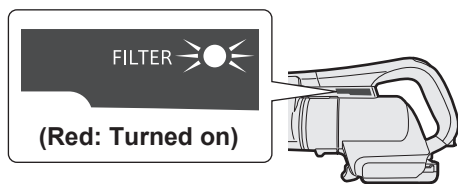
Guide for disposing of dirt

- When the level of the accumulated dirt reaches the "MAX" line.



- Dispose of the dirt before the level of the accumulated dirt exceeds the height of the line, even when the dirt is leaning on one side or the other.
- Disposing of dirt is recommended after each cleaning session, for the purpose of hygiene.

- When the Filter care lamp (red) is turned on*



- Dispose of the dirt in the Dust Cup and follow the procedure described on the right to remove the dirt on the Mesh filter. If the lamp still does not turn off, clean the unit.

EN-15, 16

※The lamp may also turn on when the Suction head is blocked (when cleaning a mat or when using an enclosed nozzle and the like) even when the filter is not dirty. In such instances, press the **OFF** and then restart operation to turn the lamp off.

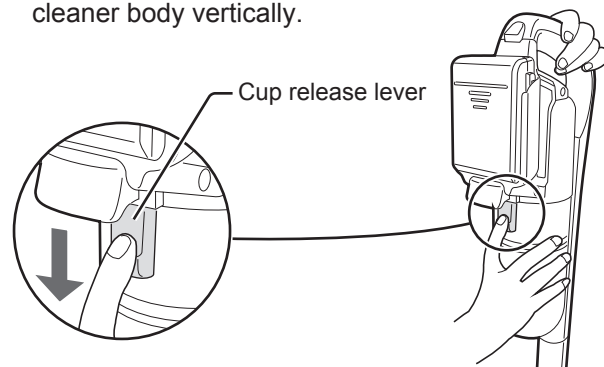
Tips

- Continuing to operate the product without disposing of the accumulating dirt results in the deterioration of the suction power due to the attachment of the dirt on the Mesh filters. Be sure to dispose of the dirt. Continuing to operate the product without disposing of the dirt may lead to the product malfunction.
- Dispose of the dirt on newspapers or over a dirt bin. [Dust could spill out]

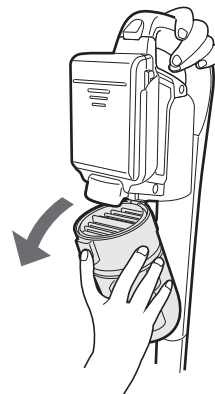
Removal

Removing the Dust cup assembly

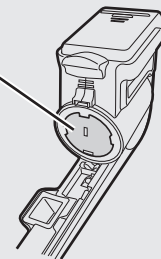
- Pull the Cup release lever while standing the vacuum cleaner body vertically.



- Removal

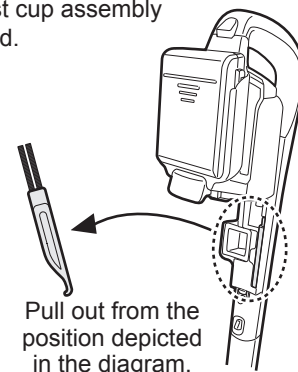


- Cleaning is not required for the built in filter. Do not remove the filter.



Removing the Cleaning Brush

- It is on the vacuum cleaner body side after the Dust cup assembly has been removed.



Pull out from the position depicted in the diagram.

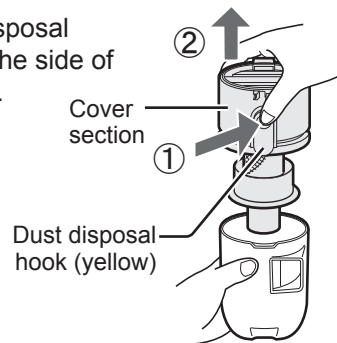


Emptying the Dust Cup

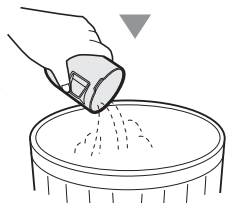
1 Remove the Dust Cup and dispose of the dirt.

① Press the Dust disposal hook (yellow) on the side of the Cover section.

② Lift the Cover section.



● Ensure that no dirt remains at the bottom of the Dust Cup.

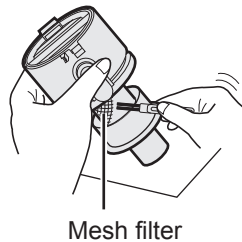


2 Remove dirt on the Mesh filters with a cleaning brush.

When the dirt is entangled and does not come off

● Clean the Dust cup assembly.

EN-15, 16



Mesh filter

When used continuously for long time

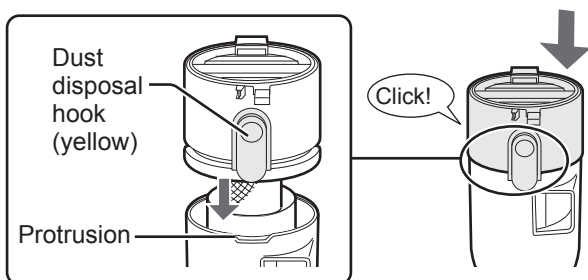


Dust accumulates on the built in Pleat Filter. Clean this dust out.

EN-15, 16

3 Mount the Dust Cup.

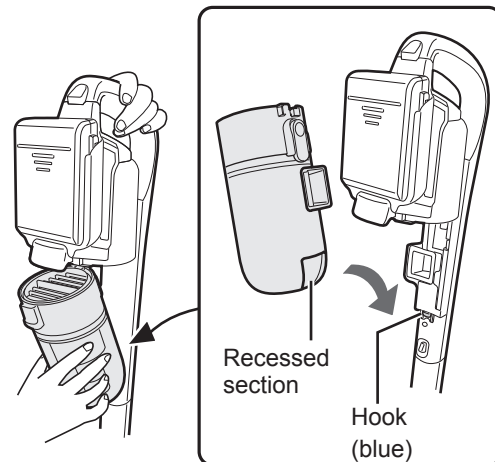
Align the protrusion on the Dust Cup and the Dust disposal hook (yellow) and insert.



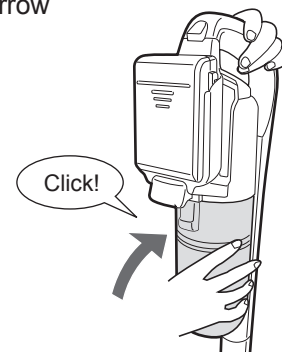
Mounting the Dust Cup Assembly

Install the Dust cup assembly on the vacuum cleaner body.

① Put the recessed section on the Dust Cup to the hook (blue) on the vacuum cleaner body



② Securely push in the direction of the arrow



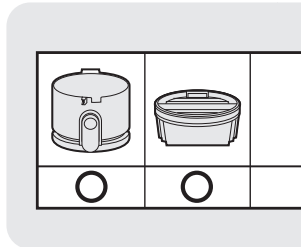
CAUTION

- The Pleat filter cannot be installed on the vacuum cleaner body unless it is installed on the Dust Cup.
- The suction power may decline, abnormal noise may be heard, dirt may enter into the motor and other issues may arise that may lead to product malfunction unless the Dust cup assembly is securely installed on the vacuum cleaner body.
- The Dust cup assembly cannot be installed properly on the vacuum cleaner body unless it is completely assembled.
- Caution is required to ensure that the Mesh filters (Upper and Lower) are not lost while throwing out dirt or cleaning.



MAINTENANCE

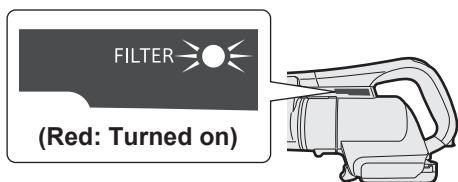
Dust cup assembly



Guide for cleaning

Dispose of dirt and remove the dirt and dust on the filter in following cases.

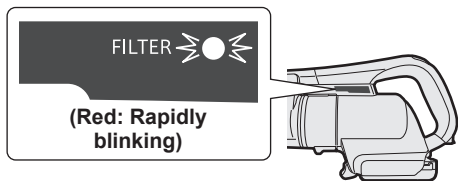
■ When the Filter care lamp (red) is turned on*



- The product stops during operations
- When the suction force is weak
- The operating sound changes or becomes louder

Clean the filter by rinsing with water in following cases.

★ When the Filter care lamp (red) is rapidly blinking*



- ★ When the vacuum cleaner body is heated.
- ★ When fine powder has been suctioned
- ★ When the Filter care lamp (red) turns on frequently.

- If the Filter care lamp (red) rapidly blinks even after the filter has been sufficiently cleaned, purchase a Pleat filter and replace the filter.

※ The lamp may also turn on when the Suction head is blocked (when cleaning a mat or when using an enclosed nozzle and the like) even when the filter is not dirty. In such instances, press the **OFF** and then restart operation to turn the lamp off.

Tips

- Continuing the use without cleaning will lead to automatic stop of the operation. Cleaning of the filters must be performed.
- Lay down newspapers and the like when cleaning the filters.
- Do not use any paint thinner, benzene product or hot water (exceeding approx. 40°C).

Removal

1 Remove the Dust Cup.

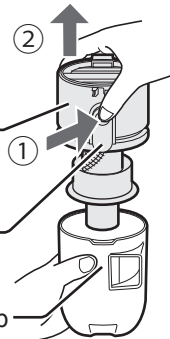
- ① Press the Dust disposal hook (yellow).

Cover section

- ② Lift the Cover section.

Dust disposal hook (yellow)

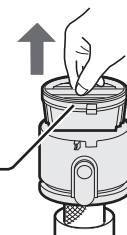
Dust Cup



2 Remove the Pleat filter

Hold on the handle to lift.

Pleat filter



3 Turn and remove the Mesh filters (Upper and Lower).

Filter Cover

Mesh filter (Upper)

Mesh filter (Lower)

Filter Cover

Mesh filter (Upper)

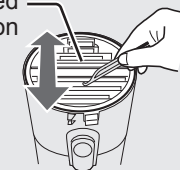
- The Mesh filters (Upper and Lower) may have different sequence for removal, depending on how they are matched.

- Use the hand grip on the cleaning brush to tap on the raised section (plastic) of the Pleat filter to dislodge dirt and dust with vibration for easier cleaning.



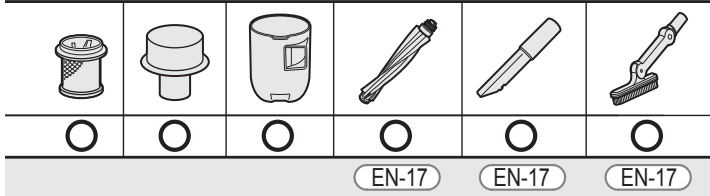
Raised section

- Care must be taken when inserting a cleaning brush, since inserting a cleaning brush too far may lead to damage.





Parts that may be washed with water

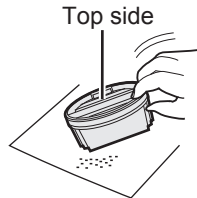


Cleaning the Filters

Pleat Filter

Dislodge and remove dirt and dust by dusting.

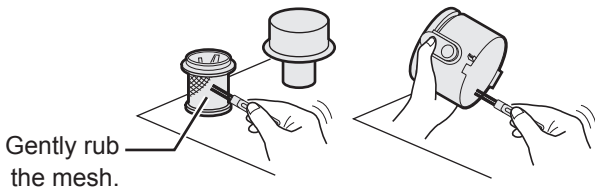
Dust in the direction illustrated in the diagram on the right as dirt tends to accumulate on the back side.



- Do not use a cleaning brush [Risk of damages].

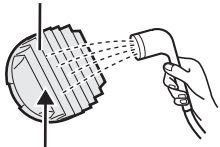
Mesh filters (Upper and Lower), Filter Cover

Remove dirt and dust with a cleaning brush.



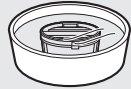
When heavily dirtied, wash with water.

Pleat filter



Carefully wash the back side.

- When the odor stands out, dilute bleach for clothing in water and immerse the filter in this solution following instruction for the bleach, then rinse with water.



Wash with water or thinned neutral detergent.

Filter Cover



Mesh filter



Dust Cup



Dry the parts after washing with water.

- Thoroughly dry prior to assembling. [Risk of filter clogging not improving even after cleaning.]
 - Properly remove moisture, gently wipe off moisture with a towel or the like, dry in shade at a well ventilated location to thoroughly dry. [Risk of emission of odor or product malfunction.]
- | | |
|------------------------|---|
| Estimated drying time: | 12 hours.
(This may vary depending on the environment and season.) |
|------------------------|---|
- Do not apply any hot air, such as air blown by a hair dryer. [Risk of deformation or product malfunction.]



Warning



Always do followings during maintenance

- Press the OFF to stop the operation of the product and remove the battery.
- Disconnect the power cord of the charger from the electrical outlet.

[Risk of electrocution or injury.]

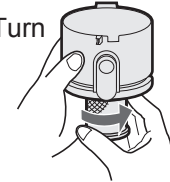
Assembling the Filters

1 Install the Filter Cover and the Mesh filters (Upper and Lower).

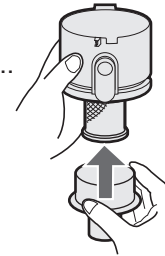
Align the positions..



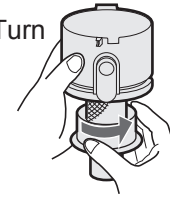
Turn



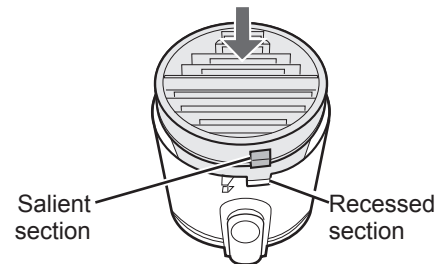
Align the positions..



Turn



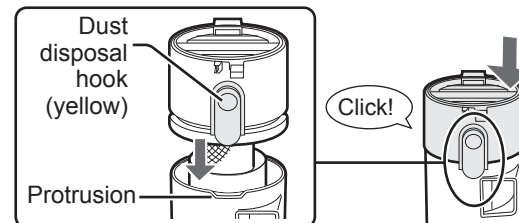
2 Align the salient part of the Pleat filter to the recessed section of the Filter Cover and press in.



• Install the Dust Cup.

3 Install the Dust Cup.

Align the protrusion on the Dust Cup and the Dust disposal hook (yellow) and insert.



CAUTION

- Each part must be assembled correctly in order for them to fit onto the vacuum cleaner body.
- Caution is required to ensure that the Mesh filters (Upper and Lower) are not lost while throwing out dirt or cleaning.

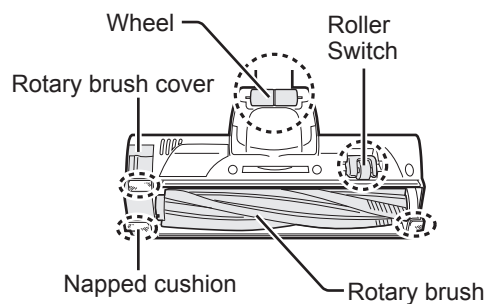
MAINTENANCE

Suction head, vacuum cleaner body,
Enclosed nozzles and contacts
(terminals) of charging section

Suction head (Rotary brush)

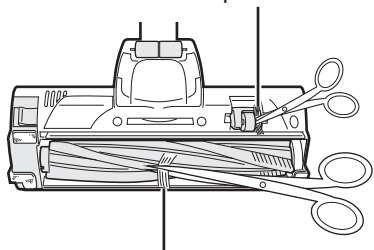
When lint, rubber band, hair or pet hair and the like is attached.

Removing the dirt



Remove the dust attached to the Suction head with a Duster Nozzle and cut off the hair and lint entangled in the section and then wipe with wrung cloth.

Remove dirt that became attached to fine parts with a pair of scissor or a pair of tweezers with thin tips.



Cut along the slot of the Rotary brush for removal.
(Do not cut the tips of the bristles of the brush.)

Stop using the product when the section becomes worn, check **EN-4** and contact your nearest service center approved by SHARP.

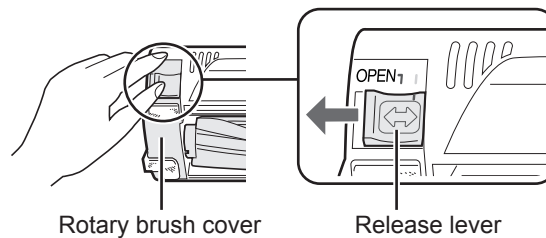
Wash with water When heavily dirtied

After removing the Rotary brush and washing it with water, remove water and moisture properly and sufficiently dry in a ventilated location before re-installing.

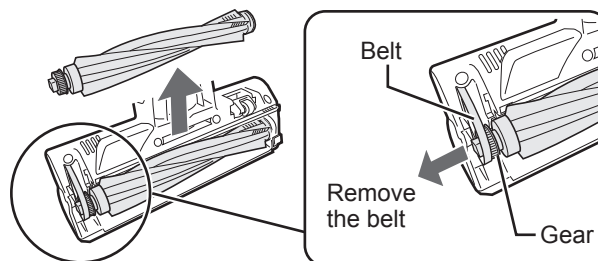
The Suction head cannot be washed with water in its entirety.

Removal

- 1 Remove the Rotary brush cover by sliding the Release lever to the "OPEN" position.



- 2 Remove the belt from the gear while lifting up the Rotary brush and remove the Rotary brush.



Vacuum cleaner body, Enclosed nozzles and contacts (terminals) of charging section

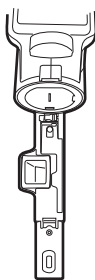
When heavily dirtied

Vacuum cleaner body

Wipe with cloth moistened with some water or thinned neutral detergent. Do not use any paint thinner or benzene product. [Risk of deterioration or discoloration]

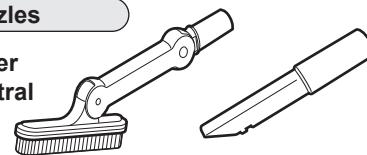
CAUTION

- The vacuum cleaner body, charger and battery cannot be washed with water.



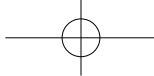
Enclosed nozzles

Wash with water or thinned neutral detergent.



Dry the parts after washing with water.

EN-16



Warning



Always do the following during maintenance:

- Press the **OFF** to stop the operation of the product and remove the battery.
- Disconnect the power cord of the Charger from the electrical outlet.

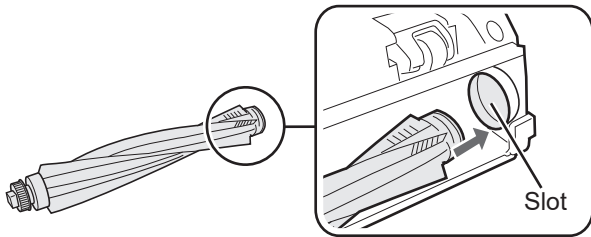
[Risk of electrocution or injury.]

CAUTION

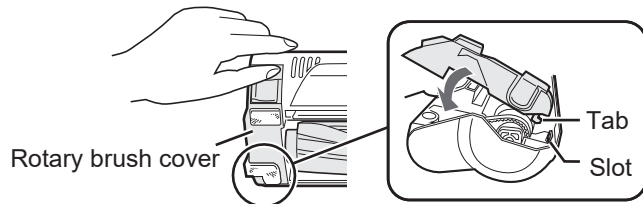
- Do not use any detergent, paint thinner, benzene product or hot water (exceeding approx. 40°C). [Risk of deterioration or deformation]
- Do not apply any hot air, such as air blown by a hair dryer. [Risk of deformation or product malfunction]

Attach

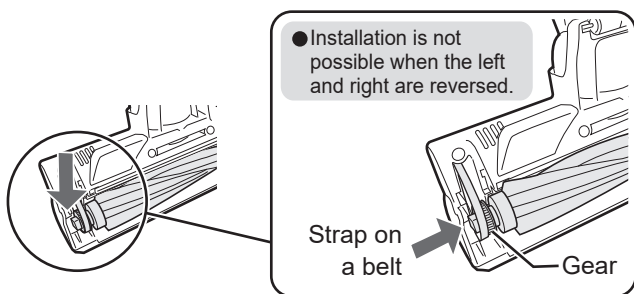
- ① Insert the side without a gear of the Rotary brush, as far as it goes into the slot.



- ③ Clip on the tab on the Rotary brush cover in the slot.



- ② Strap the belt on the gear of the Rotary brush and insert it into the slot.

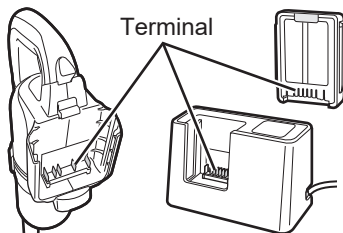


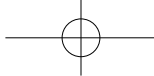
- ④ Slide the Release lever in the direction of the arrow.



Contacts (terminals) of charging section

Wipe off any dirt with a dry cloth.





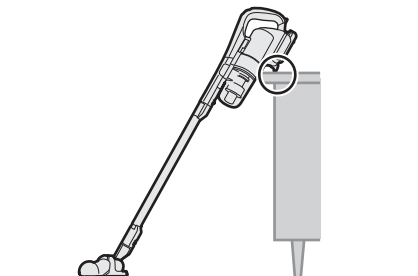
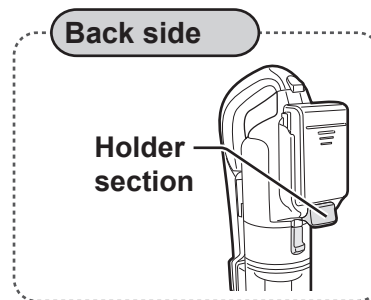
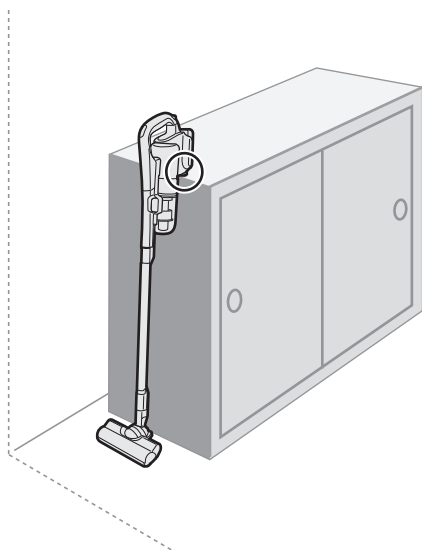
STORAGE

Storing Product

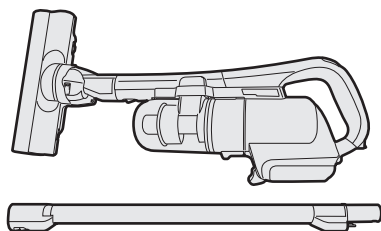
CAUTION

- Verify that there is nothing in the vicinity of the product that can be damaged easily. Pay particular attention to ensure no infant or pet is allowed to get near the product.
- If the product cannot be easily secured by hooking due to slippery floor or furniture, do not force the product to hook at a location but disassemble the product for storage instead.
- Care must be taken as the holder section may slide and leave pigment on the contacted surface, depending on the type of the wall or furniture.
- Care is needed when leaving the product standing leaning against a wall, as the product may fall.

- Store the product by hooking the holder section on furniture or the like, in a gap between a furniture and the wall, in the corner of the room or inside a closet where the product is unlikely to fall.



- Store the product in the condition described in the diagram below when not using the product for a long period of time.



SPECIFICATIONS

Power supply	Input 100 - 240 V ~ 50-60 Hz (charger)
Power supply method	Rechargeable type (lithium ion battery, 18V ---)
Electric power consumption	While charging: Approx. 40 W; After charging: Approx. 0.5 W
Continuous operation time*	High mode: Approx. 8 minutes Standard mode: Approx. 30 minutes
Dust collecting capacity	0.13 L
Charging time	Approx. 80 minutes (charging may take up to maximum of about 2 hours depending on the conditions of use, such as the surrounding temperature or duration of use)
Weight	1.5 kg (Suction head, pipe, base unit and battery included)
	0.6 kg (charger)
Base unit dimensions	222 mm W x 220 mm D x 980 mm H
charger dimensions	200 mm W x 90 mm D x 133 mm H
Cord length	80 cm (charger)

※ When a single battery is used (fully charged and initial condition of the battery / 20°C).
Conditions may vary depending on the material of the floor surface, environment in which the product is used and the condition under which the product is used.

INSTRUCTION MANUAL FOR BATTERY PACK (BY-5SB)

“ Disposal method and Storage method ”

Dispose of used batteries according to local ordinances and/or regulations. After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. Keep cells and batteries clean and dry. Replace only with same SHARP Corporation type BY-5SB battery pack.

“ Charging Information ”

Nominal Specifications		
Item	Specifications	Remark
Charging Current (Std.)	1.95A	0~10°C
	3.90A	10~60°C
Charging Voltage (Std.)	20.75V	0~45°C
	20.25V	45~60°C
Charging cut current	100mA	0~60°C

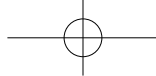
Charge Limits		
Battery Pack Model	Maximum Charge Current, A	Maximum Charge Voltage, V
BY-5SB	3.9A(0~10°C)	20.87V
	7.8A(10~60°C)	

EN-20

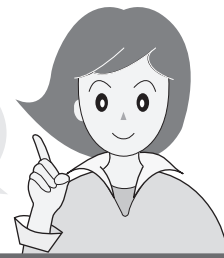
TROUBLESHOOTING

Symptoms	Check here	Reference Pages		
Problems with vacuum cleaner body during operation	The product does not operate (Movements are strange)	<ul style="list-style-type: none"> ● Is the charge remaining in the battery low? Charge the battery. ● Is the battery correctly set to the vacuum cleaner body? ● Remove the battery from the vacuum cleaner body, wait for about one minutes to pass and then reinstall the battery on the vacuum cleaner body and restart the operation.(The vacuum cleaner body circuit becomes reset and the product is restored to normal operation.) 	EN-7 EN-8 —	
	OFF was pressed but the operation does not stop immediately.	<ul style="list-style-type: none"> ● The motor keeps on turning for a while even after the OFF is pressed, but this is not a malfunction. 	—	
	Operation time is shorter.	<ul style="list-style-type: none"> ● The operating time gradually becomes shorter as the battery is used repeatedly. Replace the battery when the operating time is extremely short even when the battery has been charged. 	EN-4	
	Abnormal sound is emitted.	<ul style="list-style-type: none"> ● Is the Dust cup assembly correctly installed on the vacuum cleaner body? ● Is there any dirt or foreign matter trapped between the Pleat filter and the Mesh filters? 	EN-14 EN-16	
	Filter care lamp (red) turns on. EN-6	<ul style="list-style-type: none"> ● Is the filter of the Dust cup assembly is dirty? Remove the Dust cup assembly, dispose of dirt and remove the dirt and dust on the filter. ● Is the Suction head blocked? (When cleaning a mat or a enclosed nozzle is used) Press the OFF and then restarting operation turns the lamp off. 	EN-13, 14 EN-15, 16 EN-6	
	The suction power becomes weak during operation in the "High mode".	<ul style="list-style-type: none"> ● Continuously performing power operation at a location exposed to direct sun light or in an environment with high temperature such as inside a car parked under the flaming sun and the like can automatically reduce the suction power as the overheating protection circuit is triggered to prevent deterioration of the battery. ● Is there any clogging on the Mesh filters or Pleat filter? Clean the filter by rinsing with water. 	EN-1 EN-15, 16	
	The product stops during operations. Filter care lamp (red) blinks rapidly. EN-6 The suction power is weak. The operating sound changed or became louder.	<ul style="list-style-type: none"> ● Is the vacuum cleaner body overheating? Leave the product in a cool place for a while. ● Is the charge remaining in the battery low? Charge the battery. ● Is there any clogging on the Mesh filters or Pleat filter? Clean the filter by rinsing with water. ● Is there much dirt accumulating in the Dust Cup? ● Is there any large dirt such as a piece of tissue paper entangled inside the Dust Cup? ● Is there any dirt clogging the pipe or the Suction head? Remove the clogging dirt. 	EN-6 EN-7 EN-15, 16 EN-13, 14 EN-13, 14 —	
	Contact your nearest service center approved by SHARP if the product still stops during cleaning even if the measures described above have been implemented.			
	Charging	The battery cannot be charged. (The Charging lamp (red) of the charger is not turned on)	<ul style="list-style-type: none"> ● Is the power plug of the charger securely inserted in the power outlet? ● Is the battery correctly set to the charger? ● Is there any dirt or foreign matter attached to a terminal of the charger or the battery? Remove the dirt or foreign matter with dry cloth. 	— EN-7 EN-17, 18
		The battery cannot be charged. (The Charging lamp (red) of the charger blinks rapidly)	<ul style="list-style-type: none"> ● The symptom may be caused by malfunction of the charger, deterioration or malfunction of the battery. Contact your nearest service center approved by SHARP. (Leaving a battery without charging and depleted for a prolonged period of time can deteriorate the battery, which may need to be replaced.) 	EN-6
The Charging lamp (red) of the charger blinks slowly)		<ul style="list-style-type: none"> ● If the slow blinking occurs when the room temperature is between 5°C and 35°C, then it is time to replace the battery. Replace the battery. ● There is no malfunction if the product blinks slowly in an environment with a low temperature (about 5°C or lower) or a high temperature (about 35°C or higher). Charge the battery in an environment that is between 5°C to 35°C. 	EN-4 —	

EN-21

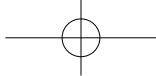


Check details described below (prior to requesting for repairs or contacting for inquiries).



Symptoms		Check here	Reference Pages
Hot	The temperature of the vacuum cleaner body can rise to about 40°C during operation, but this is not abnormal.		
	The vacuum cleaner body is hot	<ul style="list-style-type: none"> ● Is there any clogging on the Mesh filters or Pleat filter? 	EN-15, 16
Dust cup assembly	The charger or the battery becomes hot while charging.	<ul style="list-style-type: none"> ● Heat is generated due to the electrical current that is supplied to the control circuit, but this is not abnormal. 	—
	The Dust cup assembly cannot be installed on the vacuum cleaner body	<ul style="list-style-type: none"> ● Are respective components of the Dust cup assembly assembled properly? 	EN-16
	The Dust cup assembly cannot be assembled.	<ul style="list-style-type: none"> ● Is there any dirt accumulating at the bottom of the Dust Cup? ● Is there any dirt entangled on the Mesh filters? ● Is the Pleat filter properly installed to the Filter Cover? ● Are respective components of the Dust cup assembly assembled properly? 	EN-14 EN-16 EN-16 EN-16
Suction head & Rotary brush	The Rotary brush does not rotate.	<ul style="list-style-type: none"> ● The Rotary brush stops automatically for safety purpose when the Suction head is off the floor. (Safety Stop) ● Is the pipe dislodged from the vacuum cleaner body? ● Is any hair or lint tangled on the brush? ● The Rotary brush may stop in some instances as the automatic stop function is triggered when the Suction head becomes stuck on a surface when the product is used to clean carpets and mats on which the Suction head can become closely attached and blocked. In such instances, turn off the product. The automatic stop function will be released and the product can then be used again. ● Is the Suction head assembled properly? 	EN-9 — EN-17 —
	A rattling sound is coming out of the Suction head.	<ul style="list-style-type: none"> ● This is a sound emitted by the Roller Switch, due to the structure (safety stop mechanism). This is not abnormal. 	—
	The air discharged from the vacuum cleaner body smells.	<ul style="list-style-type: none"> ● Is there much dirt accumulating in the Dust Cup? (Depending on the type of accumulated dirt some odor may be emitted.) ● Has the Mesh filters or the Pleat filter been washed with water and then sufficiently dried? [Using the product while moisture remains on or in the product may lead to the emission of an odor] 	EN-13, 14 EN-15, 16
Others	A part of the Pleat filter appears to be white and floating.	<ul style="list-style-type: none"> ● The white filter material can become visible at times, but there is no quality issue with such a situation. 	—

If the Filter care lamp (red) and the Battery level indicator lamp (green) on the vacuum cleaner body are blinking simultaneously the product may be malfunctioning. Contact your nearest service center approved by SHARP.



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