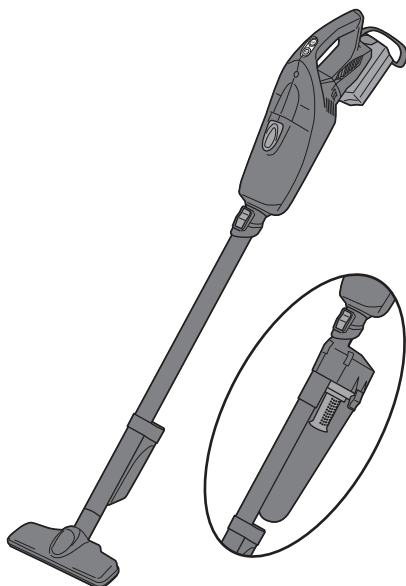
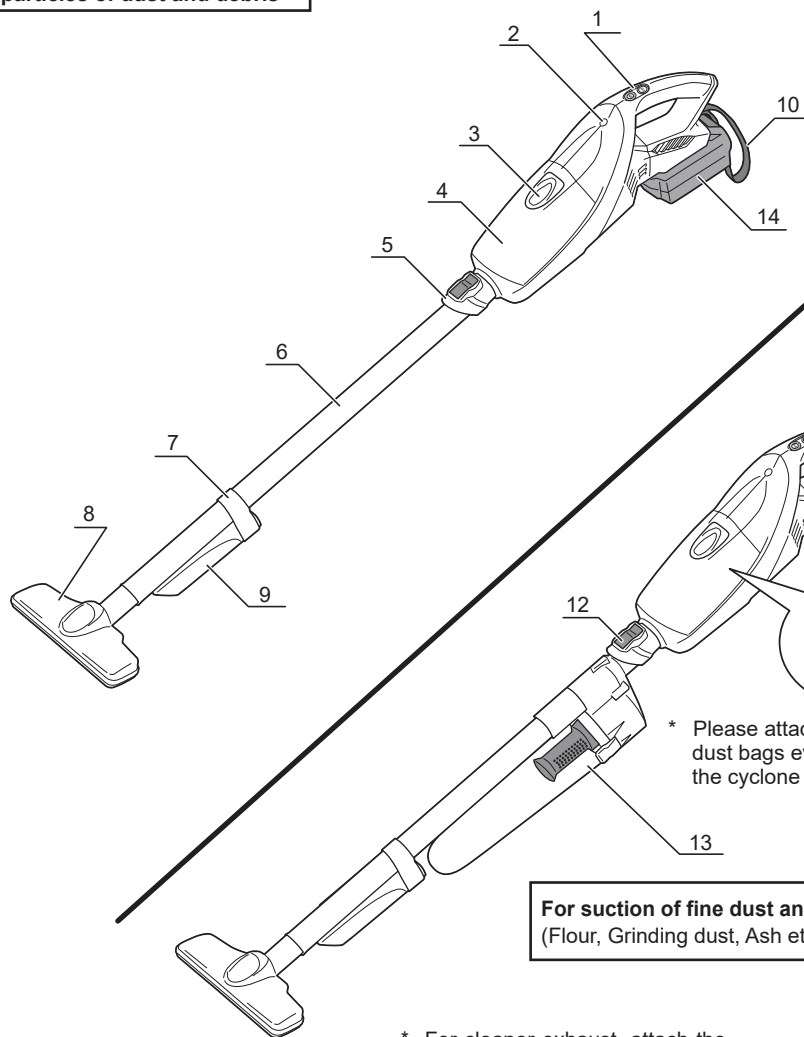


# DHC181L5

Ⓒ OWNER'S OPERATING MANUAL

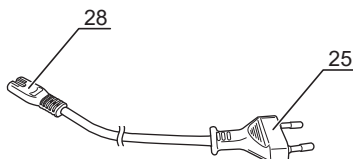
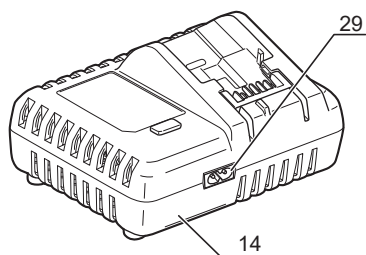


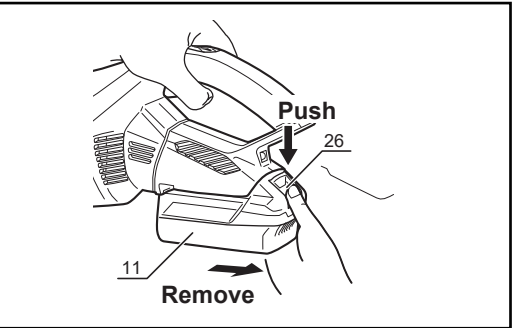
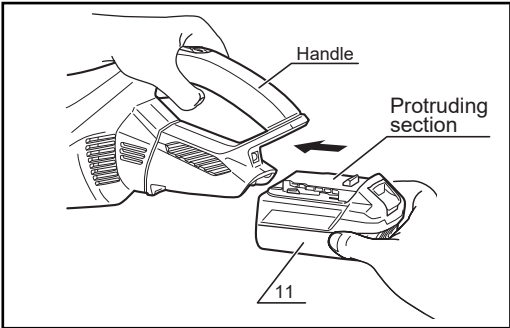
**For suction of relatively large particles of dust and debris**



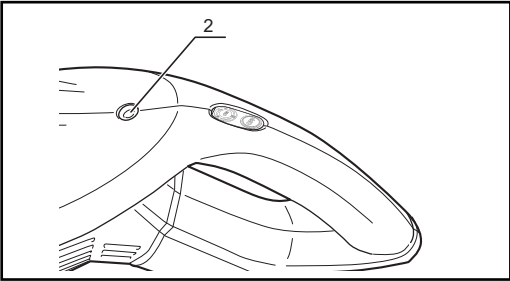
**For suction of fine dust and other particles  
(Flour, Grinding dust, Ash etc.)**

\* For cleaner exhaust, attach the cyclone unit and HEPA filter.

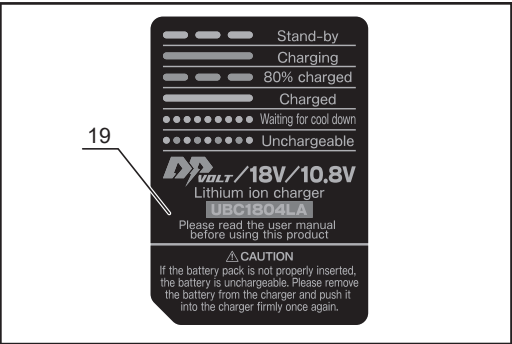
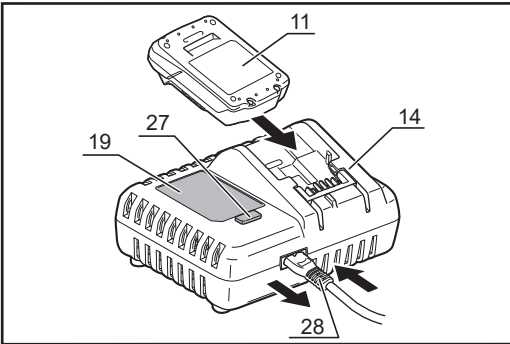




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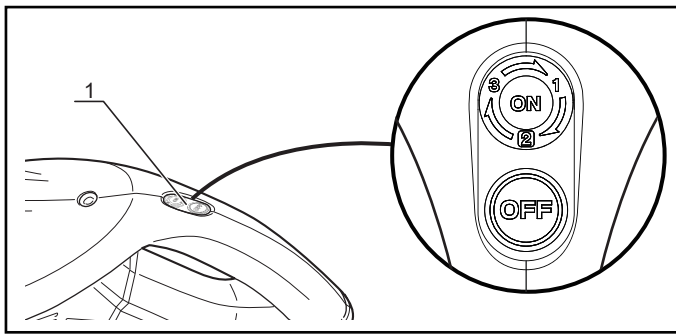


## Lamp display

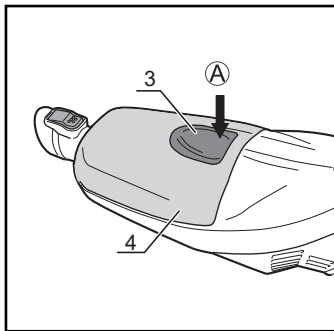
Table 1

Display mode	Lamp color	Flashing speed	Meaning
Stand-by	Green	Flashing	The charger is plugged into the outlet.
Charging	Red	Solid	Charging
80% charged	Red	Flashing	80% fully charged
Charged	Green	Solid	Charging completed
Waiting for cool down	Green	Fast flashing	The battery pack is too hot for charging. • Charging will start automatically when the temperature is back to normal.
Unchargeable	Green, Red	Fast flashing (Alternately)	The battery cannot be charged. • Battery is damaged or at the end of its service life.

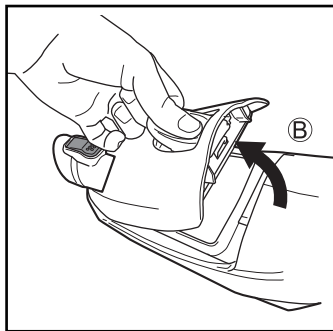
- Battery packs that have been purchased for the first time or have been stored for a long time may take longer to charge.
- The lamp might indicate inappropriately if the battery is not inserted properly.



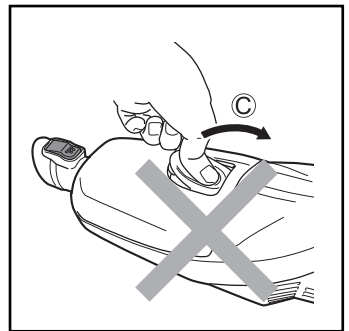
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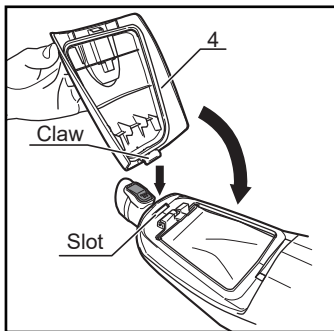
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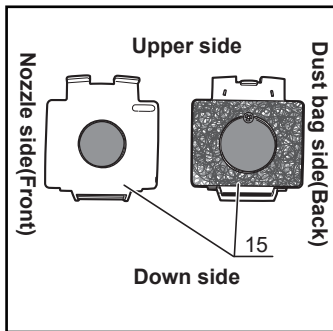
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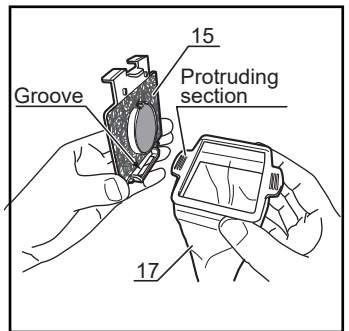
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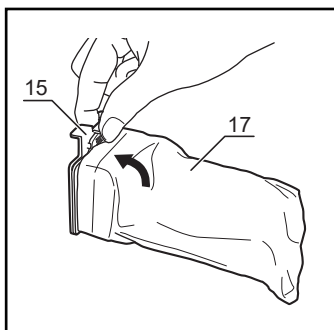
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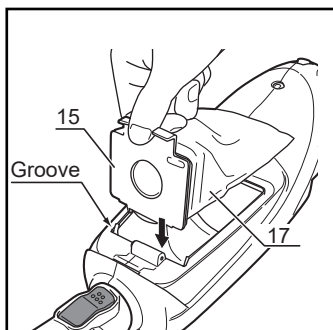
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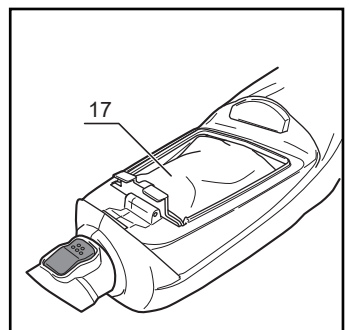
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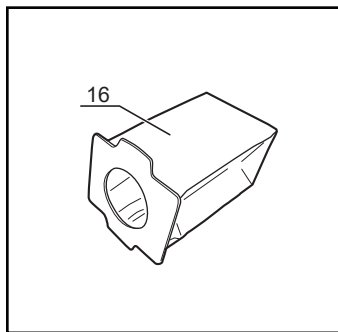
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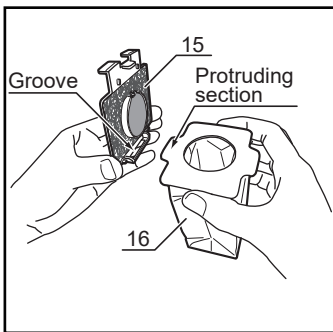
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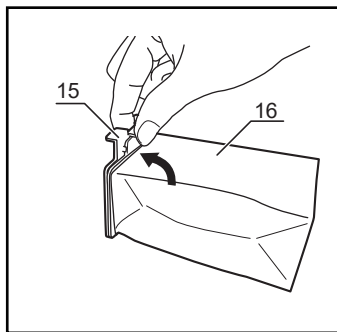
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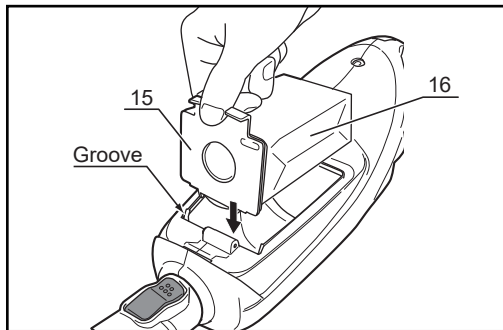
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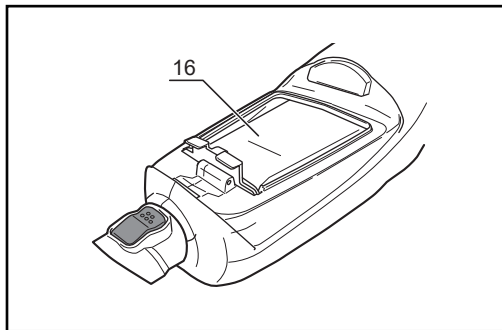
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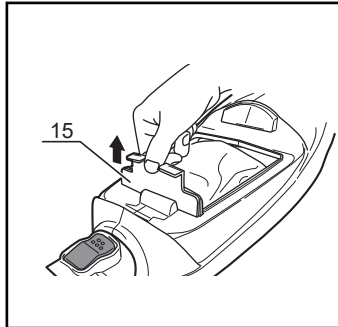
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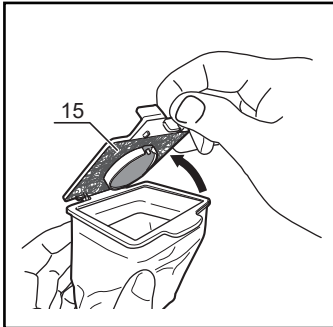
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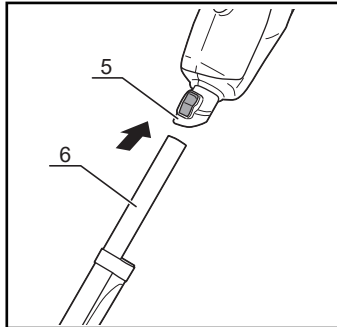
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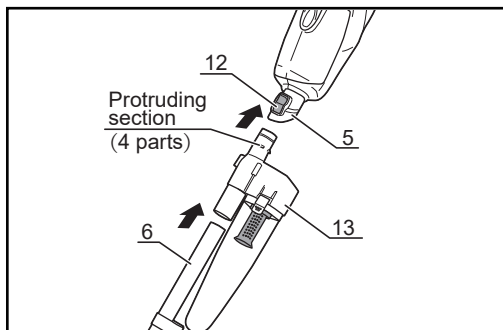
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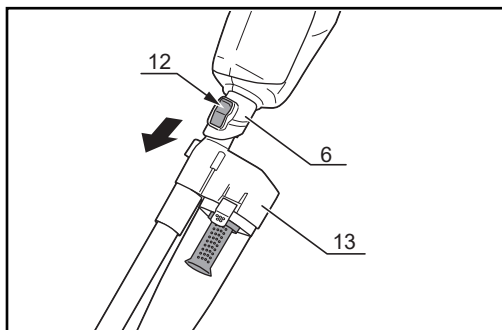
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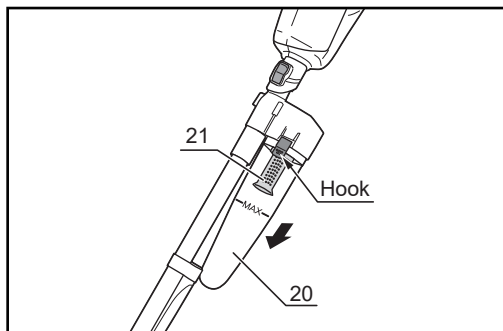
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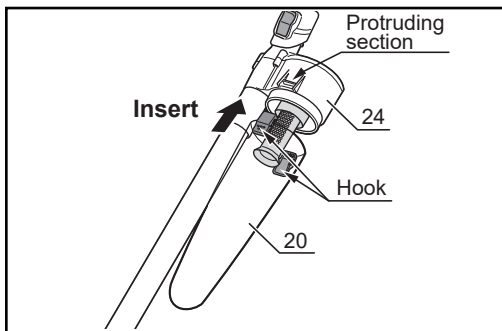
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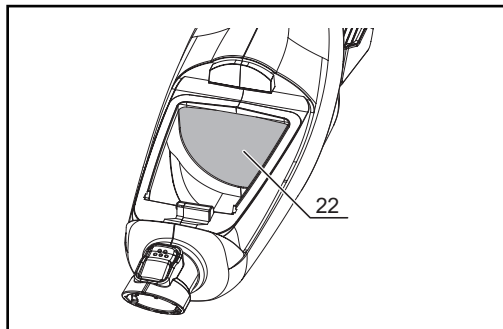
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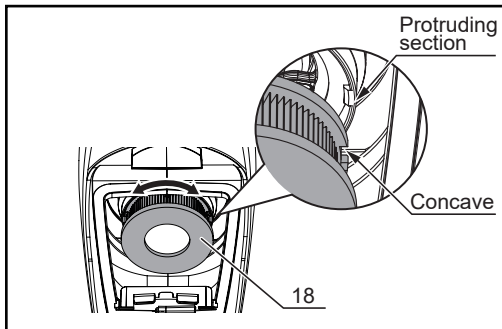
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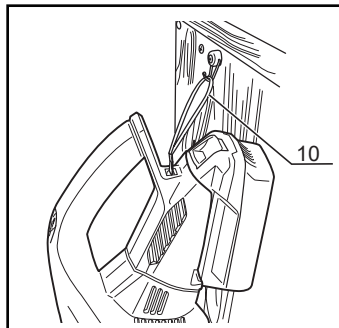
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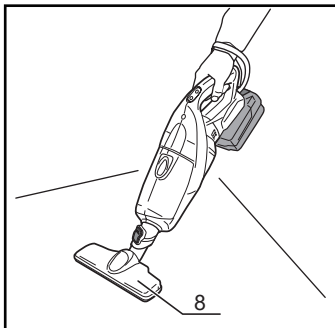
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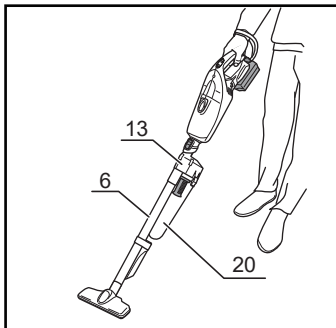
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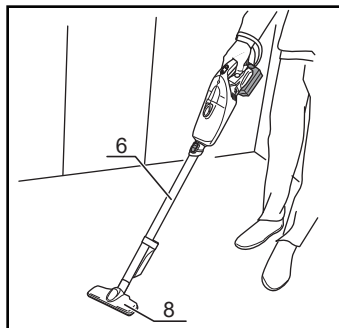
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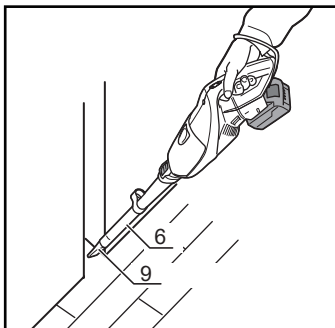
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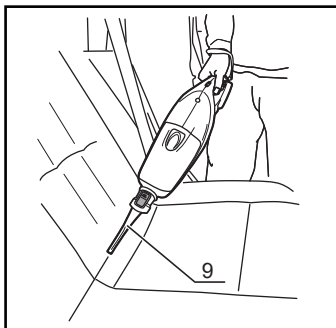
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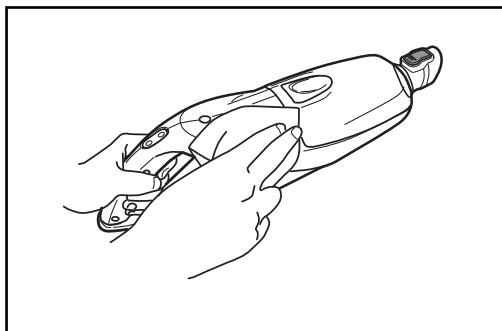
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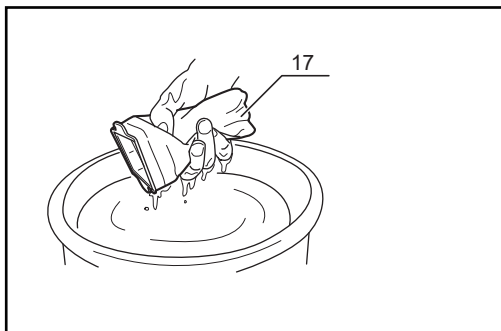
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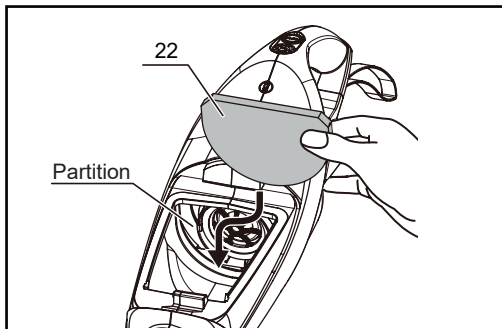
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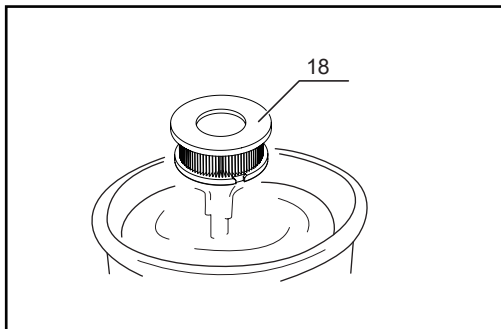
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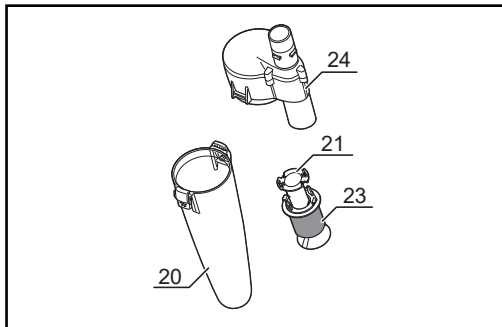
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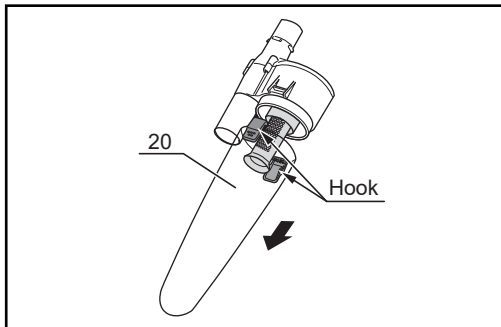
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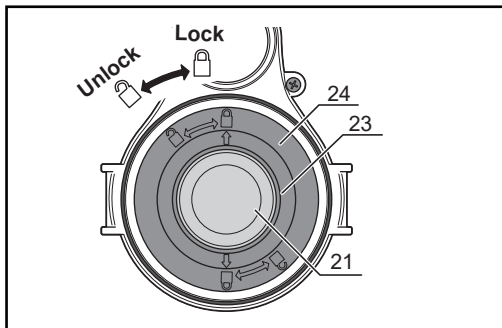
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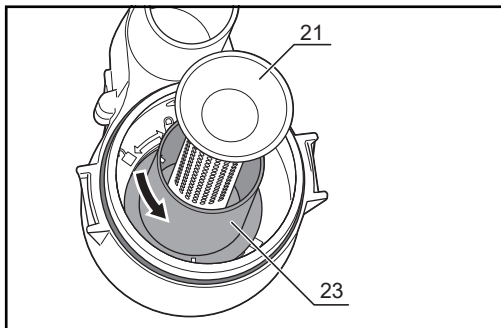
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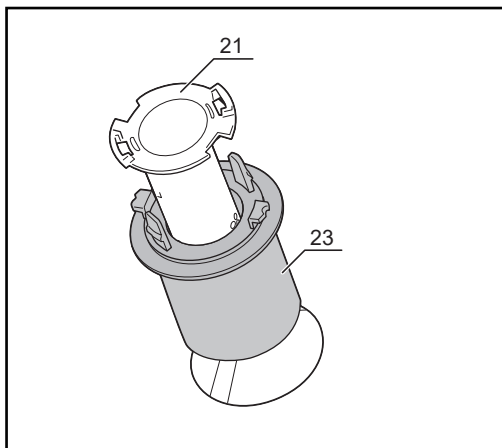
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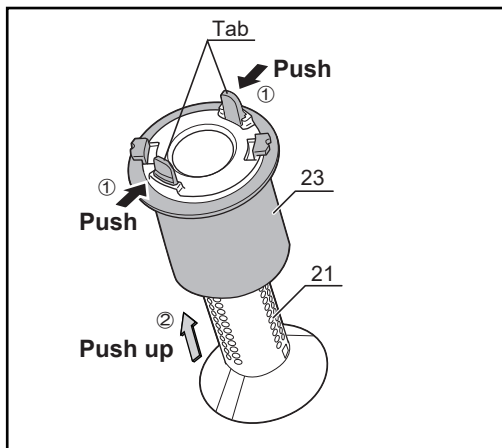
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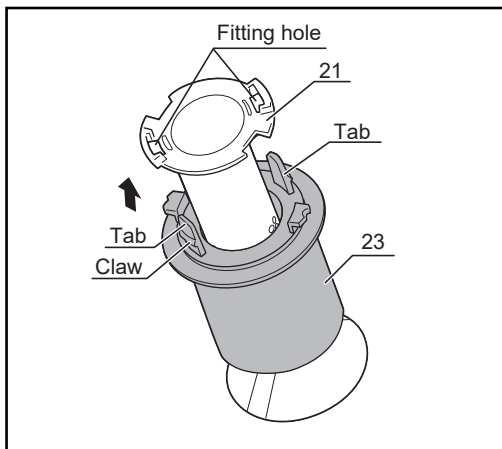
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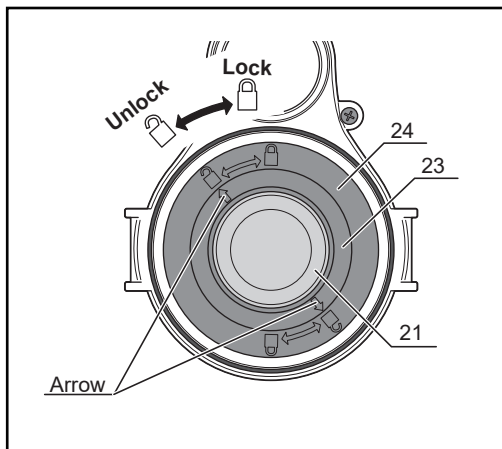
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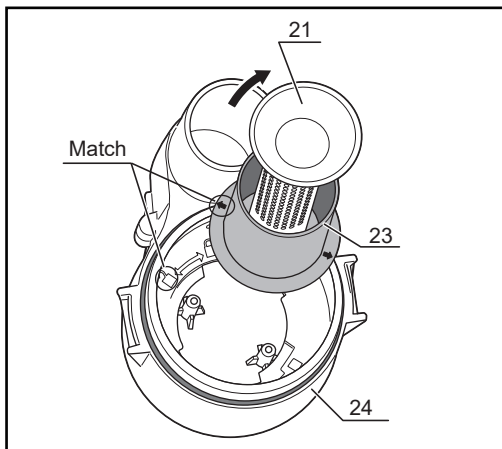
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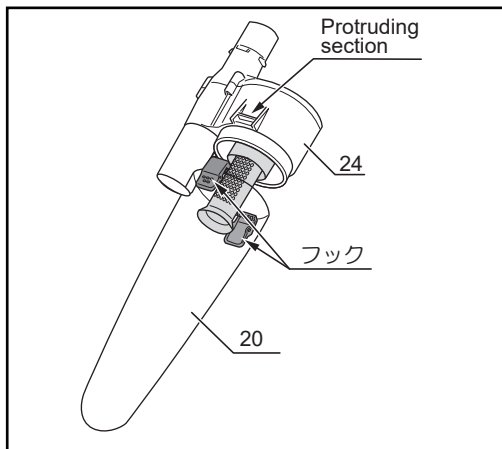
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**THANK YOU FOR BUYING OUR PRODUCT.**

To ensure your safety and satisfaction, carefully read through this **OWNER'S MANUAL** before using the product.

**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.

**INSTRUCTIONS FOR SAFE HANDLING****DANGER!**

- 1. Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- 2. Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- 3. 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.
- 4. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys,**
- 5. 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. 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.
- 7. Do not immerse the battery pack in conductive materials such as water. Do not allow conductive materials such as water to enter the battery pack.** It may result in overheating, ignition, or explosion.
- 8. Do not connect the battery pack directly to a power outlet or car cigarette lighter socket.** Applying high voltage may cause electric shock or excessive current flow, resulting in battery leakage, heat generation, rupture, or ignition.
- 9. Do not use battery packs with charging tools other than those specified.** Use of battery packs for purposes other than those specified may result in damage to the battery pack or cause it to overheat, rupture, or ignite.

**WARNING!**

- 1. Do not vacuum the following items to avoid fire, electric shock, injury, health hazard, or malfunction.**
  - **Flammable substances**
    - Gasoline, thinner, benzene, kerosene, paint, etc.
  - Sparks generated during metal grinding and cutting operations
  - Items that are on fire, cigarette butts or other smoky or hot items, etc.

- Toner and other combustibles
  - Nails, razor blades, toothpicks, glass, and other sharp objects
  - Oil, boiling water, chemicals, detergents and other effervescent liquids
  - Conductive fine dust such as metal or carbon powder
  - Flammable gases (sprays, etc.)
  - **Explosive substances**
    - Nitroglycerin, etc.
  - **Pyrophoric substance**
    - Aluminum, zinc, magnesium, titanium, red phosphorus, yellow phosphorus, celluloid, etc.
  - **Excrement and vomit from pets and other animals, as well as items with such excrement and vomit on them**
  - **Solidifying materials**
  - **Large amounts of flour, fire extinguisher powder, or other materials that may cause dust explosions**
  - **Dehumidifiers and desiccants**
  - **Chemicals, substances that cause poisoning symptoms, etc.**
  - **Water, liquids, wet waste, etc.**
  - **Asbestos and other harmful substances**
- 2. Attach the filter correctly.** Use with the filter unattached, with incorrect attachment, or with a torn filter attached may cause dust to enter the motor, resulting in malfunction, smoking, or ignition.
  - 3. Do not use with the suction port or exhaust port of the main unit blocked.** The temperature of the motor will rise abnormally, causing parts deformation, motor damage, or other malfunctions.
  - 4. Never wash the product in water or use it in a bathroom.** Doing so may cause electric shock.
  - 5. Never disassemble, repair or modify the product.** This may cause ignition or abnormal operation that may result in injury.
  - 6. Remove the battery pack from the main unit for cleaning and inspection. The unit may start unexpectedly.**
  - 7. Charge the battery correctly.**
    - This charger should be used with the power supply indicated in the rating. Do not use with DC power supply or engine generator. Unusual heat generation may result in a fire.
    - Do not charge the battery pack when the ambient temperature is below 0°C or above 40°C. There is a risk of rupture or fire.
    - Charge the battery pack in a well-ventilated place. Do not cover the battery pack or charger with a cloth or other material while charging, as it may rupture or cause a fire.
    - Unplug the power plug from the power outlet when not in use. Failure to do so may cause electric shock or fire.
  - 8. Consider the surrounding conditions of the work area.**
    - Do not use the main unit, charger, or battery pack in the rain or in damp or wet locations. Failure to do so may cause electric shock or smoke.
    - Make sure the work area is well-lit. Working in the dark may cause injury.
    - Do not use or charge the product in the presence of flammable liquids or gas. Failure to do so may result in explosion or fire.

9. In the following cases, turn off the switch and remove the battery pack from the main unit.
  - When not in use or to be repaired.
  - When other hazards are anticipated.
10. **ACCESSORIES** : The use of accessories or attachments other than those recommended in these instructions might present a hazard.
11. **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.
12. **Do not use a battery pack which usable time has become extremely short.**
13. **Do not dispose of used battery packs as general household waste.** Disposed battery packs may be destroyed in garbage trucks, causing a shorting that may result in fire or smoke.
14. **To avoid the risk of fire, do not do the following**
  - Do not charge on top of paper such as cardboard, cloth such as cushions and carpets, and vinyl.
  - For chargers with a vent, do not block the vent while charging. Do not insert metal or flammable objects into the vent.
  - Do not charge in dusty places.
15. **Do not use or charge the battery in the presence of lacquer, paint, benzene, thinner, gasoline, flammable gas, or glue. Failure to do so may result in explosion or fire.**
16. **Do not use the charger for any purpose other than charging.**
17. **There is a charging port on the battery pack attachment part of the charger. Keep away metal pieces, water, and other foreign objects.**
18. **Do not place the battery pack in a microwave oven.** Sudden heating or breaking of the seal can cause the battery pack to overheat, rupture, or ignite.
19. **If you notice any unusual odor, heat, discoloration, deformation, or other irregularities when using, charging, or storing the battery pack, remove it from the main unit or charger and do not use it.** If you use the battery pack as it is, it may cause the battery pack to overheat, break, or ignite.
20. **If the battery leaks or has unusual odor, keep away from fire immediately.** Leaked electrolyte may catch fire, causing the battery to rupture or ignite.

#### CAUTION!

1. **Use the cyclone unit and paper bag when sucking in fine dust such as flour.** If a large amount of dust enters the main unit, it may cause a malfunction.
2. **Store properly when not in use.**
  - Do not store the main unit or battery pack in a place where temperature may rise above 45°C (in a metal box or in a car in summer).
  - Do not store in a humid place.
3. **Cordless handy cleaners should be carefully cared for.**
  - For replacement of accessories, follow the instruction manual.
  - Inspect the charger cord regularly and consult your local provider if damaged.
  - When using an extension cord, inspect it regularly and replace if damaged.
  - Always keep the gripping area dry and clean and free of oil, grease, etc.

4. **Do not handle the charger cord roughly.**
  - Do not carry the charger by the cord or unplug it from the outlet by pulling on the cord.
  - Keep cords away from heat, oil, and sharp corners.
  - Be careful where you charge so that the cord is not stepped on, tripped over, or damaged by excessive force.
5. **Use an extension cord suitable for outdoor use.** When charging outdoors, use a cabletyre cord or cabletyre cable extension cord.
6. **If a battery leaks and the liquid gets on your skin or clothing, immediately rinse it off with clean water such as tap water.** Failure to do so may cause skin irritation.
7. **If the terminal of the battery pack becomes dirty, wipe with dry cloth and clean the terminal before use.** The battery pack may not make good connection with the cordless cleaner, causing it to turn off or not be charged even when plugged into a charger.
8. **The battery pack incorporates a protective device to prevent hazards. Do not use the battery pack in areas where static electricity could damage the protective device.** The protective device may break, causing the battery pack to overheat, rupture, or ignite.
9. **Inspect for damaged parts.**
  - Do not use a charger with a damaged power plug or cord, or one that has been dropped or damaged in any way.
  - For replacement or repair of damaged protective covers or other parts, follow the instruction manual. If the instruction manual does not instruct you to do so, consult your local provider.
  - Refrain from using if the switch cannot be used to start and stop the machine.
10. **Refer all repairs of Cordless handy cleaners to a specialized store.**
  - Do not disassemble, repair, or modify the main unit, battery charger, or battery pack except by service personnel.
  - If the unit becomes hot or you notice anything unusual, please send it in for inspection or repair.
  - This product complies with applicable safety standards and should not be modified.
  - Always consult the provider where you purchased the product for repair. Repairing without knowledge or skill to repair the product will not only result in inadequate performance, but may also result in accidents or injury.

#### DISPOSAL OF THE EXHAUSTED BATTERY

##### **Li-ion batteries must be recycled.**

Take the battery to the shop from which it was purchased as soon as battery life becomes too short for practical use.

**Do not discard the exhausted battery.**

#### DESCRIPTION

1. Switch
2. LED (Battery level indicator)
3. Dust Bag Cover Release Button
4. Dust Bag Cover
5. Suction Port (Nozzle Attachment Port)
6. Extension Pipe
7. Nozzle Holder
8. Wide Nozzle

9. Corner Nozzle
10. Strap
11. Battery pack
12. Hook
13. Cyclone Unit (with lock)
14. Charger
15. Non-return flap
16. Paper Bag
17. Dust bag
18. HEPA Filter
19. Label
20. Dust Case
21. Center Nozzle
22. Sponge Filter
23. Separator
24. Nozzle Parts
25. Power Plug
26. Push Button
27. Lamp
28. Connector
29. Connector Junction

## SPECIFICATIONS

Voltage		DC 18V (Li-ion)
Operation Time *1	1: Low	45min
	2: Middle	35min
	3: High	20min
Dust Bag Size		0.5L
Paper Bag Size		0.33L
Max Suction Power *2		100W
Battery type		B-1850LA (5,000mAh)
Charger type		UBC1804LA
Charging time		Approx. 54min
Overall Dimension		455 x 121 x 188 mm
Weight *3		1.6 kg

\*1 Reference values when fully charged. Continuous usage depends on the battery capacity of the battery pack (11) and working conditions.

\*2 Maximum suction power is with the extension pipe (6) and dust bag (17) attached to the main unit.

The cyclone unit (13) and HEPA filter (18) are not attached.

\*3 When battery pack (B-1850LA) is attached.

Extension pipe (6), wide nozzle (8) and cyclone unit (13) are not attached.

**\* Be sure to check the nameplate on the product, because the voltage is subject to change depending on the area in which the product is to be used.**

## STANDARD ACCESSORIES

Wide Nozzle, Paper Bag (10pcs), Dust bag (1pcs, Reusable), Extension Pipe (with nozzle holder), Corner Nozzle, Non-return flap, Cyclone Unit (with lock), HEPA Filter, Charger, Battery pack

## APPLICATIONS

(Use only for the purposes listed below.)

- Cleaning of hotels, buildings, workshops, stores, etc.
- Cleaning of company premises
- General house hold cleaning

## REMOVING AND ATTACHING THE BATTERY PACK(Fig. 1)

### (ATTACHMENT)

Align the protruding section of the battery pack (11) with the groove on the body, and slide the battery pack (11) all the way into the groove in the direction of the arrow to attach securely.

### (REMOVAL)





Push and hold the push button (26) while pulling the battery pack straight out in the direction of the arrow.

## CHECKING THE BATTERY LEVEL(Fig. 2)

The battery level indicator (2) will light up or flash for a while when turn on the switch.

The battery level can be determined by the indicator state.

Indicator display details are as follows.

Display	Battery condition
 Green lit	Battery fully charged
 Green flashing	Battery half charged
 Red flashing	Charge soon
 Red lit	Charge immediately

## CHARGING

The battery pack (11) must be charged before you use the tool.

The batteries are affected by temperature, so do not charge them outside or in a location exposed to direct sunlight. Doing so will shorten the charging time and result in less than the full charge.

## HOW TO CHARGE (Fig. 3)

The charger (14) may become a little warm while charging, but this does not affect its performance.

The charging condition is indicated by the flashing lamps on the charger (UBC1804LA). (Fig.3, Table 1)

1. Securely insert the connector (28) of the power cord into the connector junction (29) of the charger.
2. Insert the electric plug of the charger into the outlet.
3. Firmly insert the battery pack (11) into the charger.
4. When the charging is complete, remove the battery pack from the charger.
5. Remove the electric plug of the charger from the outlet.
6. Remove the connector (28) from the connector junction (29) on the charger.

Note1: Lithium ion batteries can be charged when the battery packs are between 0°C and 40°C, but the charging time will be longer if the battery pack temperature is lower than 10°C.

Note2: The charging time will be longer when the battery level is low.

## HOW TO EXTEND THE LIFE OF THE BATTERY PACK

Do not recharge a fully charged battery pack. When the battery pack is not going to be used for an extended period of time (6 months or longer), store it with the battery fully charged. Before storing the battery pack, remove it from the charger.

## SWITCH (Fig. 4)

- Switch (1) is turned on by pressing the (ON) button and turned off by pressing the (OFF) button.
- The suction power can be switched between three levels.  
Press the (ON) button to start operation at "2: Middle" mode. Pressing the (ON) button switches the mode in the order of "3: High", "1: Low", "2: Middle".

\* This product is equipped with an electronic circuit for controlling the main unit. Therefore, there is a momentary delay in motor startup after the switch is turned on, but this is not a malfunction.

## INSTRUCTIONS

Be sure to turn off the switch (1) and remove the battery pack (11) from the main unit before attaching and detaching of any parts or disposing garbage.

## REMOVING AND ATTACHING THE DUST BAG COVER (Figs. 5, 6, 7, 8)

### (REMOVING)

1. Press A of the release button (3) on the dust bag cover (4), and while holding the release button, open and remove the dust bag cover (4) in the direction of B.
- \* Do not pull the release button (3) of the dust bag cover strongly in the direction C, otherwise the release button may come off.

### (ATTACHING)

1. Insert the claw of the dust bag cover (4) into the slot on the main unit, then close the dust bag cover (4) until it clicks into place.

## ABOUT THE DUST BAG AND PAPER BAG

- When using the product, either the dust bag (17) or the paper bag (16) must be attached.

**DUST BAG :** For suction of relatively large particles of dust.  
**PAPER BAG :** For suction of fine dust and other particles.

- The non-return flap (15) is used for both the dust bag (17) and the paper bag (16) attachment.
- The dust bag (17) can be cleaned and reused repeatedly.
- The paper bag (16) is disposable. Please throw away the entire paper bag when garbage accumulates.
- \* When using the cyclone unit (13), the dust bag (17) or paper bag (16) must also be attached.

## ATTACHING THE DUST BAG (Figs. 9, 10, 11, 12, 13)

- \* Use the non-return flap (15) to attach the dust bag (17). Note that there is a vertical distinction.
1. Remove the dust bag cover (4).
  2. Insert the convex part of the dust bag (17) into the groove on the underside of the non-return flap (15). (The dust bag (17) does not distinguish top and bottom.)
  3. Match the non-return flap (15) and the dust bag (17) frame.
  4. Insert the non-return flap (15) and the dust bag (17) together into the groove on the unit so that they are firmly inserted.
  5. Place the cloth side of the dust bag (17) into the main unit.
- \* Forgetting to insert the dust bag (17) or using a dust bag that has not been attached firmly or is torn, may cause the motor to malfunction.
6. Attach the dust bag cover (4).

## ATTACHING THE PAPER BAG (Figs. 9, 14, 15, 16, 17, 18)

- \* Also use the non-return flap (15) to attach the paper bag (16).  
Note that there is a vertical distinction.
1. Remove the dust bag cover (4).
  2. Unfold the paper bag (16) before setting it to the non-return flap (15).
  3. Insert the convex part of the paper bag (16) into the groove on the underside of the non-return flap (15). (The paper bag (16) does not distinguish top and bottom.)
  4. Match the non-return flap (15) and the paper bag (16) frame.
  5. Insert the non-return flap (15) and the paper bag (16) together into the groove on the unit so that they are firmly inserted.
  6. Place the bag side of the paper bag (16) into the main unit.
- \* The paper bag (16) is disposable. Please throw away the entire paper bag when garbage accumulates.
7. Attach the dust bag cover (4).

## DISPOSING GARBAGE (Figs. 19, 20)

1. Remove the dust bag cover (4).
  2. Pull out the non-return flap (15) and the dust bag (17) or paper bag (16) together.
  3. Remove the non-return flap (15) before disposing of garbage in the dust bag (17).  
Please throw away the entire paper bag when garbage accumulates.  
Carefully remove any dust or garbage remaining inside the main unit and on the non-return flap (15) using another vacuum cleaner or similar tool.
- \* Do not accidentally dispose of the non-return flap (15).

## REMOVING AND ATTACHING THE EXTENSION PIPE AND NOZZLE (Fig. 21)

### (ATTACHING)

1. When attaching the extension pipe (6) and nozzle (8 or 9), insert the junction of the extension pipe (6) and nozzle (8 or 9) firmly into the suction port (5) of the main unit to prevent disconnection during use.

## **(REMOVING)**

1. Pull out the extension pipe (6) and nozzle (8 or 9) from the suction port (5) of the main unit.

## **ABOUT THE CYCLONE UNIT (Figs. 22, 23)**

- Using the cyclone unit (13) prevents clogging of the dust bag (17) or paper bag (16), and makes cleaning after use easier.
- \* When using the cyclone unit (13), the dust bag (17) or paper bag (16) must also be attached.
- \* Keep the dust bag (17) or paper bag (16) free of garbage. Accumulated garbage can cause reduced suction power.

## **(ATTACHING)**

1. Attach the cyclone unit (13) into the suction port (5) of the main unit.  
Align the convex part of the cyclone unit with the hook (12) on the suction port (5) and insert the hook (12) until it "clicks" into place. The cyclone unit (13) is secured into place.
- \* There are 4 convex parts. The direction of the cyclone unit (13) can be changed every 90°. Mount the unit according to the application.
- \* After attachment, gently pull on the cyclone unit (13) to make sure it does not come off.
2. Extension Pipe (6), wide nozzle (8), etc. are attached for use.

## **(REMOVING)**

1. Press down on the hook (12) (arrow mark) of the suction port (5) and pull the cyclone unit (13) in the direction of the arrow to remove it.

## **(DISPOSING GARBAGE)(Figs. 24, 25)**

When dust has accumulated to the MAX line of the dust case (20), dispose of it as follows.

1. While holding down the arrow mark on the hook (both sides) of the dust case (20), pull the dust case (20) in the direction of the arrow to remove it.
2. Dispose of any garbage in the dust case (20) and remove any dust from the surface of the center nozzle (21).
- \* When the center nozzle (21) is clogged, remove the cyclone unit (13) from the main unit, disassemble it, and wash it with water. After washing in water, dry thoroughly before use.
3. Align the hook (both sides) of the dust case (20) with the convex part of the nozzle part, and insert the dust case (20) in the direction of the arrow.
- \* After attachment, gently pull on the dust case (20) to make sure it does not come off.

## **ABOUT THE HEPA FILTER (Figs. 26, 27)**

The HEPA Filter (18) enables the collection of fine dust particles that are not collected by the cyclone unit (13), dust bag (17), or paper bag (16), resulting in cleaner exhaust air.

- \* The HEPA Filter (18) and cyclone unit (13) must be used together.
- \* Do not collect hazardous materials such as welding fume dust even if the HEPA Filter (18) is attached.

## **(ATTACHING)**

1. Remove the dust bag cover (4) and take out the dust bag (17) or paper bag (16) from the main unit.
2. Remove the sponge filter (22).
- \* The sponge filter (22) is not used when attaching the HEPA Filter (18). Keep it in a safe place and do not lose it.
3. Attach the HEPA Filter (18).  
Align the concave part of the HEPA Filter (18) with the convex part on the inside of the main unit, insert the HEPA Filter (18), and turn it slightly to the left or right to attach.
4. Attach the paper bag (16) or dust bag (17), and equip the dust bag cover (4).
- \* Remove the HEPA Filter (18) in the reverse order of attachment.
- \* Remove the suction port (5) with the suction port (5) facing down.
- \* When the HEPA Filter (18) is not in use, attach the sponge filter (22). Usage without the sponge filter (22) may result in malfunction, smoke or fire.

## **ABOUT THE STRAP (Fig. 28)**

- When storing standing up, hook the strap (10) to a hanging bracket or similar device.
- \* When left standing without any fixation, it may fall over and cause malfunction.

## **WORK EXAMPLE**

### **• WIDE NOZZLE (Fig. 29)**

When cleaning tables, furniture, shelves, etc., insert the wide nozzle (8) directly into the suction port (5) of the main unit.

### **• CYCLONE UNIT (Fig. 30)**

Using the cyclone unit for suction of fine dust and other particles (13) prevents clogging of the dust bag (17) or paper bag (16), and makes cleaning after use easier.

- \* Do not point the nozzle upwards. Accumulated dust in the dust Case (20) will move to the dust bag (17) or paper Bag (16) and may cause clogging.

### **• WIDE NOZZLE AND EXTENSION PIPE (Fig. 31)**

When cleaning low places such as carpets and floors, the extension pipe (6) can be inserted between the suction port (5) and the wide nozzle (8) for easy cleaning in a standing position.

### **• CORNER NOZZLE AND EXTENSION PIPE (Fig. 32)**

When cleaning behind furniture or high and narrow places, insert the extension pipe (6) between the corner nozzle (9) and the suction port (5) of the main unit for easier cleaning.

### **• CORNER NOZZLE (Fig. 33)**

Insert the corner nozzle (9) directly into the suction port (5) of the main unit when cleaning car interiors, furniture, or window sash gutters.

- \* Pebbles may not be able to be sucked in.

## **BATTERY PROTECTION (Fig. 2, Table 2)**

This tool has a battery protection function (circuit control). The tool might stop working in the situation in the table below.

If the main unit does not work, turn on the switch, check the LED lamp lighting status, and remove the cause.

**Table 2**

The main unit does not work			
LED lamp status	Red light	Alternating red and green light	
Cause	Out of battery	High temperature of battery pack	Motor is not sufficiently cooled. (Dust bag or paper bag is full or clogged with dust.)
Solution	Charge battery	Cool down battery pack	Dispose garbage, replace paper bag, cool down motor *
In case of problems and malfunction after measures, stop using the product immediately and take it to your local provider.			

\* Time required for cooling motor varies with ambient temperature and other factors.

## HOW TO CARE AFTER USE (Figs. 34, 35)

### • MAIN UNIT (Fig. 34)

- Clean the main unit with dry cloth or cloth moistened with soap water. Cleaning with gasoline, thinner, or petroleum will damage the unit. Never wash the main unit with water.
- Wipe off any dust from the suction port, dust bag compartment, and non-return flap (15).

### • DUST BAG (Fig. 35)

- When the dust bag (17) becomes dirty and suction power decreases, rinse the dust bag (17) with soap water and dry it thoroughly before use.

### • SPONGE FILTER (Figs. 26, 36)

- If suction power is still weak after disposing dust and cleaning the dust bag (17), remove dust from the sponge filter (22).
1. Remove the sponge filter (22) from the inside of the main unit.
  2. Dust the sponge filter (22) or wash it with water. After washing in water, dry it thoroughly before attaching it to the main unit.

### (ATTACHING)

- Insert the sponge filter (22) into the slot inside of the main unit (arrow mark) and attach so that there is no gap inside the wall.

\* The sponge filter (22) does not distinguish front and back.

\* After cleaning the sponge filter (22), be sure to attach it inside the main unit.

### • HEPA FILTER (Figs. 27, 37)

- Remove the HEPA Filter (18) from inside the main unit.  
Tap the HEPA Filter (18) lightly to remove any dust. Use a soft brush or brush to remove dust from the bellows.
- Rinse with water for clean and dust-free cleaning. After washing in water, dry it in the shade and dry it thoroughly before use.

\* Do not clean the HEPA Filter (18) with the HEPA Filter (18) attached to the main unit. Dust and other garbage can get inside the motor, and may cause malfunction.

\* Clean the HEPA Filter (18) in a well ventilated area.

\* Avoid scratching the HEPA Filter (18) by scraping it with a brush, spatula, or other hard objects.

\* The HEPA Filter (18) is fragile and should not be cleaned with air blowers or high pressure washers.

\* If suction power is still weak or if exhaust is dirty after cleaning the HEPA Filter (18), replace it with a new HEPA Filter (18).

### • CYCLONE UNIT (Fig. 38)

\* When the dust case is dirty or the center nozzle is clogged, disassemble and wash with water.

\* After washing in water, dry thoroughly before assembling and using.

### (DISASSEMBLING)

#### 1. Remove the Dust Case (20). (Fig. 39)

While holding down the arrow mark on the hook (both sides) of the dust case (20), pull the dust case (20) in the direction of the arrow to remove it.

#### 2. Remove the center nozzle (21). (Figs. 40, 41)

Turn the center nozzle (21) toward the unlocking direction (🔓) to remove it.

#### 3. Unlock the Center nozzle (21) and separator (23). (Figs. 42, 43)

While holding the tabs (both sides) of the separator (23) at the arrow mark, push up the center nozzle (21) to release.

\* The center nozzle (21) cannot be removed from separator (23).

\* Rinse nozzle parts (24), center nozzle (21), separator (23), and dust case (20) with water to remove any dust or clogging.

### (ASSEMBLING)

#### 1. Fix the separator (23). (Fig. 44)

Insert the tab of the separator (23) into the mounting hole of the center nozzle (21) to secure.

\* Make sure that the claw of the tab is hanging on center nozzle (21).



**2. Attach the center nozzle (21) to the nozzle parts (24). (Figs. 45, 46)**

Insert the separator's (23) arrow mark into the center nozzle (21) by aligning it with the center nozzle's Unlock (🔓) mark, and turn the center nozzle (21) toward the Lock (🔒) direction to attach the separator (23).

\* Check that the center nozzle (21) "clicks" into place.

**3. Attach the dust case (20) to the nozzle parts (24). (Fig. 47)**

Hold down the arrow mark on the hook (both sides) of the dust case (20), and hook it onto the convex part of the nozzle parts (24).

\* After attachment, gently pull on the dust case (20) to make sure it does not come off.

**STORING THE TOOL**

Store the tool in a dry place that does not get too hot. Avoid places which can be reached by children or from where the tool may fall.

Pay attention to the following when storing the battery pack for an extended period of time.

- a. Store lithium ion batteries when they are charged.
- b. Recharge the stored battery pack every 6 months.
- c. Avoid high temperatures. Do not store for an extended period of time in places that are 45°C or hotter.
- d. Do not store in places that are -20°C or colder.
- e. Do not store in places that are near to heat sources or places that are subject to direct sunlight.
- f. Do not store in places which have large changes in temperature and may have condensation.
- g. Do not store in humid places.
- h. Do not allow it come in contact with water.
- i. Store in a dry place.
- j. Do not subject it to large vibrations or allow it to fall when moving it.
- k. In order to avoid short circuits, do not allow it come in contact with metal objects.
- l. Before storing the battery pack, remove it from the charger.

**MAINTENANCE**

After use, check the tool to make sure that it is in top condition.

It is recommended that you take this tool to an Authorized Service Center for a thorough cleaning and lubrication at least once a year.


**DO NOT MAKE ANY ADJUSTMENTS WHILE THE MOTOR IS IN MOTION.**

**ALWAYS REMOVE THE BATTERY FROM THE TOOL BEFORE CHANGING REMOVABLE OR EXPENDABLE PARTS (BIT...ETC.), LUBRICATING OR WORKING ON THE UNIT.**

**WARNING!**

To ensure safety and reliability, all repairs should be performed by an **AUTHORIZED SERVICE CENTER** or other **QUALIFIED SERVICE ORGANIZATION**.

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

 **WARNING** To reduce the risk of injury, user must read instruction manual "

KYOCERA Industrial Tools Corporation  
2-2-54 Matsuhama-cho, Fukuyama-shi,  
Hiroshima-ken, 720-0802 Japan