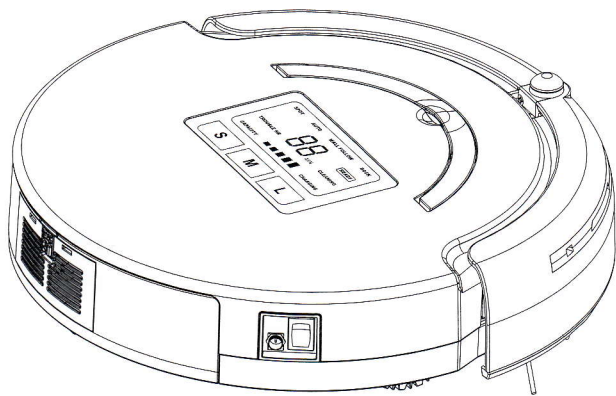


# Robotic Vacuum Cleaner

## User manual



Before you turn the appliances on, please read the user's manual carefully, and keep it for future reference.

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## IMPORTANT

Please read all user manual before you use.

Keep it for future reference.

**Warning: Use the product only as described in this manual, failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.**

### Attention:

- Do not take apart any accessories, including remote control and space isolator. Only use replacement parts or accessories provided or recommended by the manufacturer.
- This product is designed for household use. Do not use it in industrial surroundings or outdoors!
- Don't use this product on water ground surface.

## SAFETY NOTICE

- This product contains a rechargeable battery. It is charged by provided charging device. This product only used with DC24V 500mA adapter.
- Do not use the appliances if any part is damaged or defective.
- This appliance is not intended for user by persons (including children) with reduces physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliances by a person responsible for their safety.
- Children must be supervised to ensure that they do not play with the product.
- Before connecting this product to the wall socket, make sure the main voltage is the same as that stated on the rating plate.
- Keep the charge power cord away from hot surfaces and sharp edges.
- Never use accessories, do not attempt to use the accessories with any other product nor attempt to charge this product with another charge.
- Before use, check the charge cord for signs or damage or ageing, it is forbidden to use the product if it has a damaged power cord or plug.
- Never use the product if you have wet hands or feet.
- Do not spray the product with water or any other liquid. Do not put water or any other liquids into the product. Do not submerge the product in water or in any other liquid.
- This product is designed for household use, do not use it in industrial surroundings or outdoors.
- Store in a dry place always.
- If the product is being used, do not block the air inflow and outflow openings, blocked air vents can cause overheating and motor damage.
- Do not vacuum large pieces of paper or plastic bags, they can easily clog the appliances.
- Never use the vacuum cleaner without filters or the dust container being inserted.
- Using a charger from a different product may cause a risk of fire.

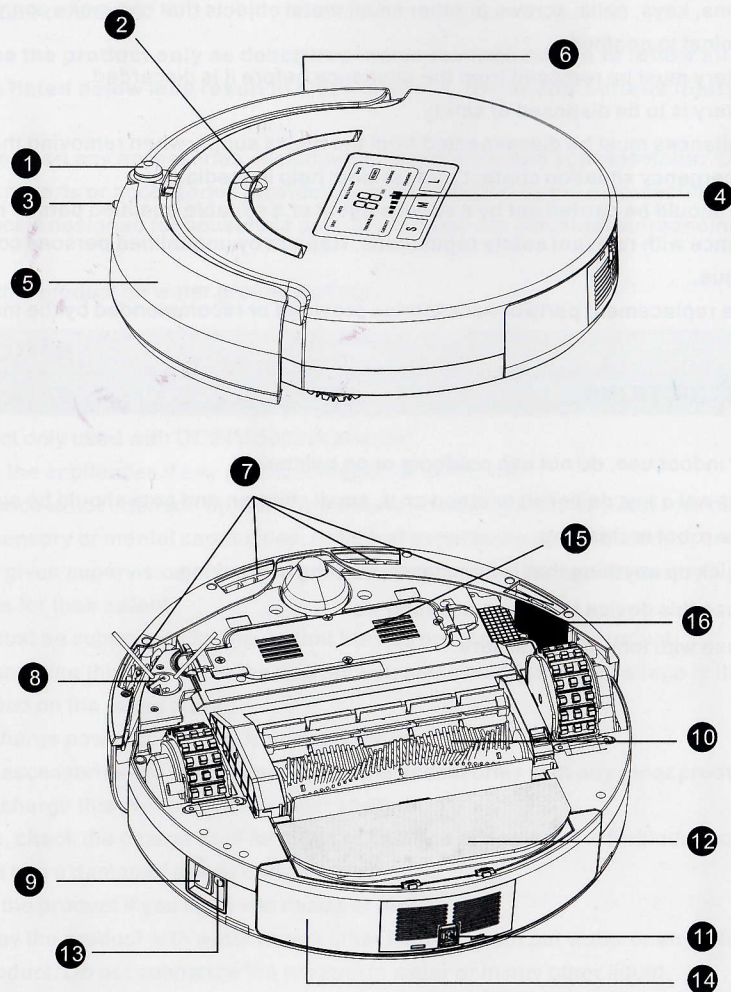
- This product contains Ni-MH battery, do not incinerate battery or expose to high temperature, as they may explore.
- When the battery pack is not in use, keep away from other metal objects, such as: paper clips, cons, keys, nails, screws or other small metal objects that can make connection from one terminal to another.
- The battery must be removed from the appliance before it is discarded.
- The battery is to be disposed of safety.
- The appliances must be disconnected from the mains supply when removing the battery.
- In an emergency situation contact professional help immediately.
- Repairs should be carried out by a service agent or a suitable qualified person in accordance with relevant safety regulations. Repairs by unqualified persons could be dangerous.
- Only use replacement parts or accessories provided or recommended by the manufacturer.

## USE RESTRICTIONS

- Only for indoor use, do not use outdoors or on balconies.
- Device is not a toy, do not sit or stand on it, small children and pets should be supervised when the robot is cleaning.
- Do not pick up anything that is flammable, burning or smoking.
- Do not use this device to pick up anything wet.
- Do not use with long-piled carpets.

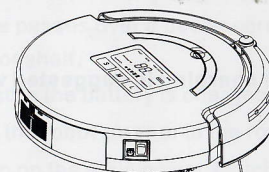


## DESCRIPTION

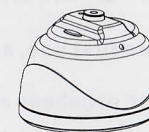


- |                                |                              |
|--------------------------------|------------------------------|
| 1. Infrared Sensor             | 9. Power Switch              |
| 2. Handle                      | 10. Main Rotating Brush      |
| 3. Automatic charging contacts | 11. Button of dust container |
| 4. LED Display                 | 12. Mop & Vacuum Inlet Cover |
| 5. Bumper                      | 13. Battery Charger Socket   |
| 6. Wall sensor                 | 14. Dust container           |
| 7. Step Sensors                | 15. Rechargeable Battery     |
| 8. Side Brush                  | 16. UV Lamp                  |

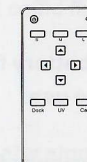
## SUPPLIED CONTENTS



Vacuum cleaner



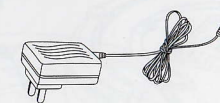
Space Isolator



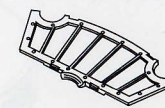
Remote control



Docking station



Adapter



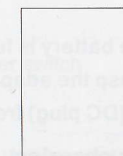
Filter



Cleaning brush



Mop



User manual

## SPECIFICATION

Battery Type	14.4V DC, Ni-MH 1700mA
Charge output	24W
Charge input	AC 100-240V
Noise level	≤58dB
First charging time	8Hours
Normal charging time	4-5Hours
Working time	60-90Min
Battery for Space isolator	#1 (LR20x2)
Dust container capacity	330ml
Remote control distance	≤5m
Unit size	Ø34cmx8.5cm

## GUIDE OF OPERATION

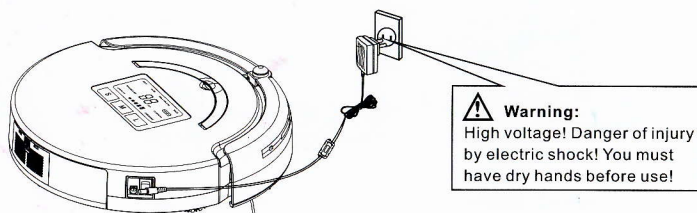
### 1. Battery charging (Manual charging and Automatic charging)

#### Manual charging

##### Attention!

Charge the battery for 8 hours before first use, and manual charging is suggested when the first time use.

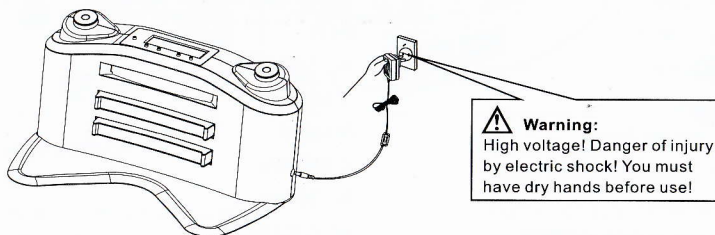
- Connect the end of the adapter to the DC socket on the vacuum cleaner and it will be charged directly, see below picture



- Once the battery is full charged, unplug the adapter from the socket. Do not pull the power cord, grasp the adapter and pull to disconnect from the socket. Then take off terminal of adapter (DC plug) from vacuum cleaner.

#### Automatic charging

- Firmly seat the docking station on and even surface against a vertical wall.
- There must no walls or cavities in the range of 3m from the front of the docking station, and likewise 0.5m must be kept free along its sides.
- The vacuum cleaner would not be able to locate the station if the infrared sensor was covered.
- Insert the adapter end into the DC socket on the docking station(see pic 1)



pic 1

- First charging time is 8 hours, then regular charging time is 4-5hours.

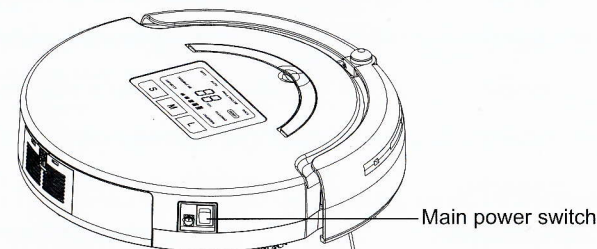
**Warning: Only use a replacement battery as supplied by manufacturer.**

### 2. Using the product

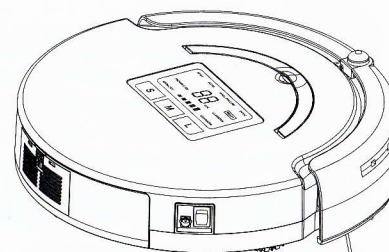
Before using, pick up objects like clothing, loose papers, pull cords for blinds or curtains, power cords, and any fragile objects as they may entangle with cleaning brushes. If the device passes over a power cord and drags it, there is a chance an object could fall off a table or shelf.

- Ensure the battery is charged.
- Put the robot cleaner in the room which is needed to be cleaned.
- Turn on the main power switch, don't turn it on in front of the space isolator signal light.
- Once turn on the main power switch, command "S M L" button will flash, please press button until the flash stopping.

If you press the button "L" during the flashes, the device will search for dock station and charge automatically, it is for showing how to charge automatically function purpose.



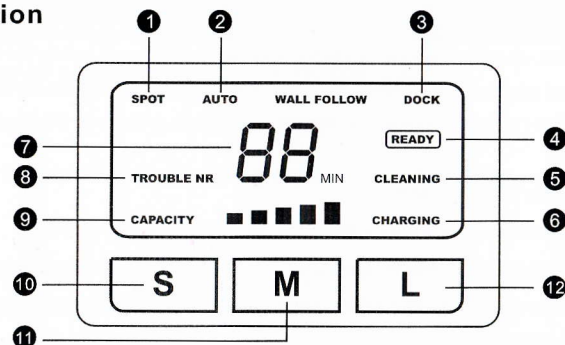
- To Start the robot cleaner, press one of the buttons(S M L) to choose the desired Cleaning mode.



- To PAUSE cleaning robot, press one of the command buttons.
- To Resume cleaning robot, press one of the command buttons again
- To Turn off cleaning robot, press the main power switch.



## 2. Display definition



No.	Display	Function definition on display
1	SPOT	Spot working mode
2	AUTO	M or L working mode
3	DOCK	Robot is seeking for docking station
4	READY	Ready for working by press any button
5	CLEANING	Robot is under cleaning mode
6	CHARGING	Robot is under charging
7	88	Robot working time
8	TROUBLE NR	Robot with error
9	CAPACITY	Power, not full power if the icons flash
10	S	"S" working mode, robot cleans for 5min, and working area is 2 square meter space, it is suitable for spot cleaning in one certain area. "S" working mode, if you use dock station, product automatically charges the battery after work
11	M	"M" working mode, robot cleans for 43min; it is suitable for small room. "M" working mode, if you use dock station, product automatically charges the battery after work
12	L	"L" working mode, robot keeps running until power weak, if you use dock station, then cleaner automatically charges the battery and work again. It is suitable for large room.

The vacuum cleaner is in charging, the five "■■■■■" will flash circularly. numeral means charging time ( four minute as a unit display).

The vacuum cleaner is full charged, the five "■■■■■" will flash at the same time, "C0" shows on display. In addition, there is another timed working mode, we can set to clean automatically according to the pre-setting time. This function need to be set on docking station, please refer to the docking station User introduction of the timed cleaning function (Page 8).

## 3. Operation of docking station

If the battery goes flat during the vacuuming process, the vacuum cleaner will automatically locate the docking station so that the battery can be charged.



- Insert the adapter end into the DC socket on the docking station (refer to Automatic charging on page 5), take the cleaner connect the dock station, when the five "■■■■■" flash at the same time, the battery is full charged.

**Attention:** when dock station is working, for battery charging, the icon "■■■■■" is flashing, it just means dock station is in charging procedure, NOT means battery capacity status, it will flash all the time (No matter the battery full charged or not) until the cleaner leaves dock station.

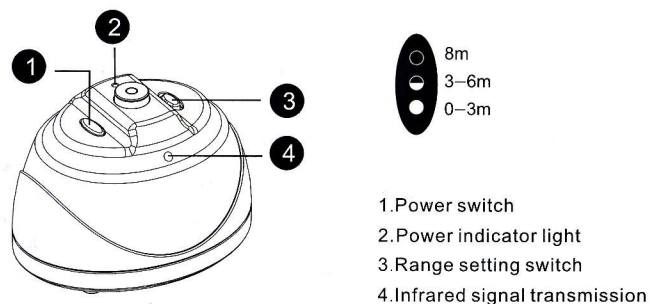
- **Auto:** Press Auto button once, the icon "Go" shows on display, start to automatic cleaning system. Press Auto one more time to cancel it.
- **Clock:** Setting current time
  - Press the "Clock" button, the hour icon "88": will start to flash, set the current time by pressing the "+" or "-" buttons.
  - Again press "Clock" button, the minute icon: "88" will start to flash, set the current minute by pressing the "+" or "-" buttons.
  - Again press "Clock" button, current day of the week can be selected by press "+" or "-" buttons.
  - After completing the settings press the "Clock" button to be down.
- **Time:** Pre-setting the vacuum time:
  - Press the "Time" button, the hour icon "88": will start to flash, in which you wish vacuuming to be down, set it by using "+" or "-" buttons.
  - Again press "Time" button, the minute icon: "88" will start to flash, in which you wish vacuuming to be done by using "+" or "-" buttons.
  - After completing the time setting, press "Time" again, "OFF" will be showed on display, then press "+", "ON" shows on display, then press "Time" to complete the time function. Then "2" shows on display.
  - you can cancel the pre-setting by cut off the power.

### Attention:

- If dock station is not full charged or automatic charging time is less than 5 hours, but the pre-setting time is reached, the pre-setting time function could not work, the pre-set time shall be more than 5 hours.
- After finished setting, the docking station can't be power off before vacuum time.
- If you have chose Time function, please cancel Auto function, otherwise the Time function will not be workable.
- It may happen that the vacuum cleaner does not find the docking station because of obstacles, a flat battery or because of complex conditions in a large area.
- Pls charge the vacuum cleaner on the docking station when set the vacuum time.

#### 4. Operation of space isolator

The space isolator can limit the movement of the vacuum cleaner when it is vacuuming to only a certain area by sending out an infrared signal and thereby preventing the vacuum cleaner from entering other rooms or other place (areas)



- ①. **Power switch:** press the button to turn on or turn off the space isolator.
- ②. **Power indicator light:** if the vacuum cleaner is working properly, the indicator light will flash approximately until the battery goes flat.
- ③. **Range setting switch:**
  - move the switch to position to set a range of max 8m
  - move the switch to position to set a range of max 6m
  - move the switch to position to set a range of max 3m.

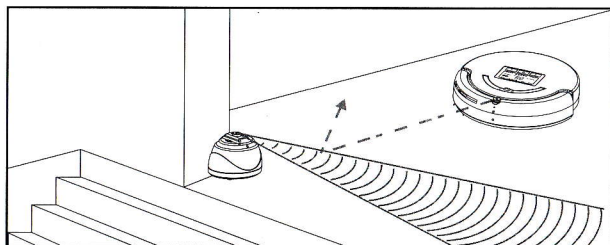
#### ④. Installation of the space isolator

Before using space isolator, open the battery compartment cover and insert 2 batteries(type D) (not included in as accessories), make sure that you adhere to the correct polarity, otherwise the space isolator will not work.

Place the space isolator at the entry to a staircase or generally into the door of a room.

You can place the space isolator at a certain location so that the vacuum cleaner stops and does not move over certain locations.

To ensure that the space isolator works properly, remove all possible obstacles from its vicinity.



#### Warning:

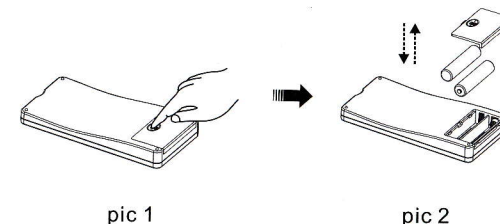
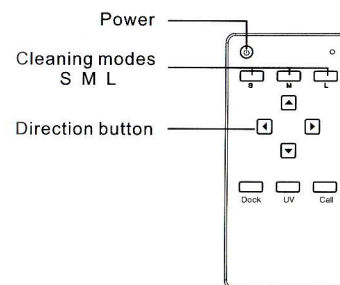
You must locate the space isolator at the same level on the floor as at which the vacuum

cleaner is moving.

The distance between the space isolator and the charger should be greater than 3m otherwise they could cause each other interference.

Do not place the docking station within the signal range of the space isolator.

#### 5. Remote control panel



- 1. Open the battery cover and then replace the battery. (Refer to pic 1)
  2. Place the positive and negative poles correctly for fear of the damage due to wrong poles! (Refer to pic 2)
  3. Take out the battery if it was unused for a long time.
  - Before using remote control, make sure to turn on the power switch on robot cleaner.
- Power:** Press power to turn on the vacuum cleaner, if you press again, the vacuum cleaner will turn off.
- Direction button:** Change the vacuuming direction by .
- Clean modes:** S M L, press S M L to select the cleaning model.

#### Attention!

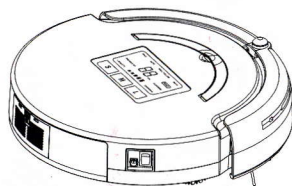
**Remote control and space isolator are working by infrared, it might cause each other interference, so do not put them at same area.**



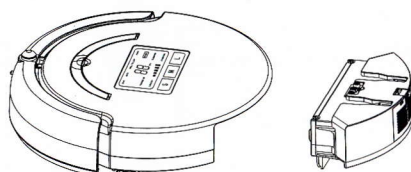
## CLEANING AND MAINTENANCE

### 1. Removal, installation and cleaning of the dust container

Slide out the dust container by pressing the button on the vacuum cleaner (See pic 1 and Pic 2), then empty the rubbish.



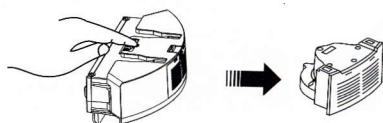
Pic 1



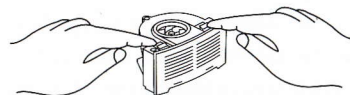
Pic 2

### 2. Cleaning the fan motor.

- Press the black button on the container, the fan will be released automatically (See pic 3)
- Turn the fan upside down, releases 2 catches and open the cover (See pic 4 and Pic 5)
- Use the cleaning brushes to clean the edge of vent.



Pic 3



Pic 4

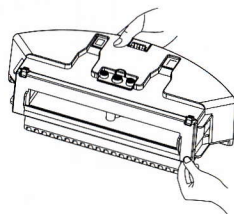


Pic 5

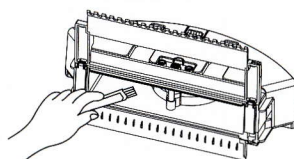
**Attention! Do not use water or wet mop to clean the fan motor!**

### 3. Cleaning and replace the filter

- Open the holder and pull out a little. (See pic 6), take out the trash.
- Use the dust brush to clean the dust container. (See pic 7)

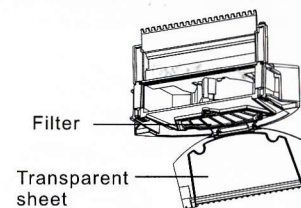


Pic 6



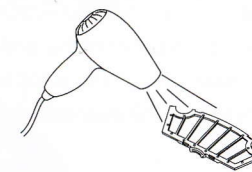
Pic 7

- open the transparent sheet (See pic 8), take out the filter (See pic 9)

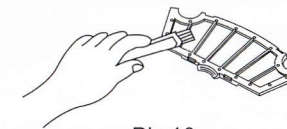


Pic 8

- Clean the filter by hair dryer or brushes (See pic 10)
- After cleaning the filter, put it back in dust container, or you can replace new filter.



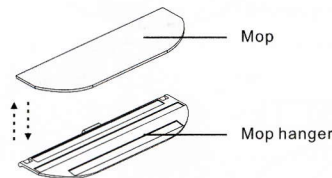
Pic 9



Pic 10

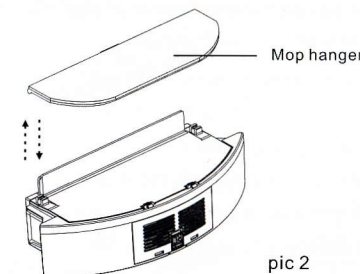
### 4. Using the mop

- Stick the Mop on the hanger (pic 1). Use daily cleaning mixture to clean mop.



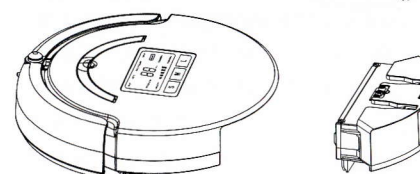
pic 1

- Buckle the Mop hanger on the bottom of dustbin (pic 2).



pic 2

- Put the dustbin into vacuum cleaner (pic 3).



pic 3

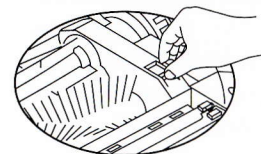
### Attention!

Do not use the mop on carpets or other uneven surfaces.

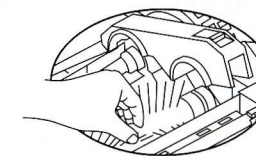
### 5. Removal and installation of the main brush

Removal and installation of the main brush and the floor brush:

- Push the safety latch forward and lift the cover with the right thumb, then using the left hand lift the rod of the middle brush (See pic 1 and pic 2)



pic 1



pic 2



- Take out the main brush and the floor brush.  
(See pic 3)
- Before closing the cover of the bottom part of vacuum clean, attach the main brush and the floor brush into the appropriate openings.

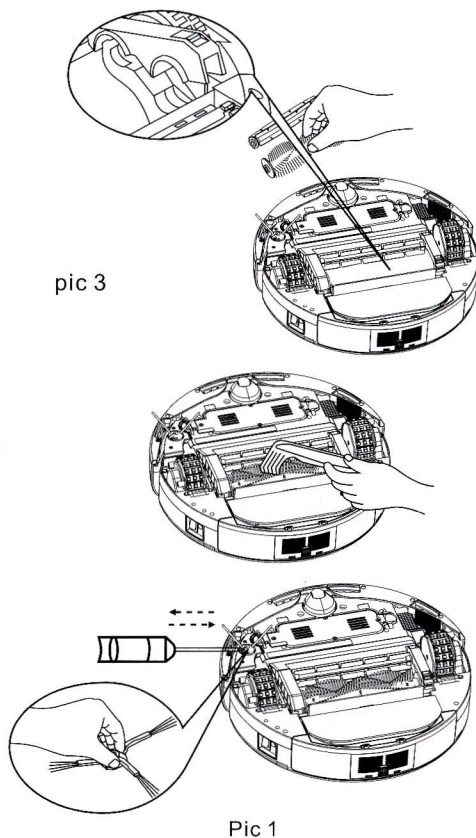
#### Attention!

It is very important to clean the hair on main brush regularly. it will improve the vacuum cleaner performance!

For what cyclone hair or yarn on main brush, please turn around the main brush to take out or cut it off.

#### 6. Removal and installation of the side brush

1. Before replacing the side brush, release the screw on the main shaft of the side brush.
2. Push the side brush to the main shaft and then tighten the screw after cleaning. (See Pic 1.)



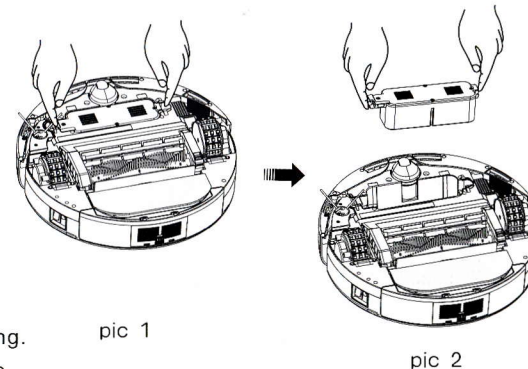
#### REPLACEMENT OF BATTERY

##### 1. Battery replacement of the Cleaner:

- ① Use fingers to press two ends of battery buckle, take out the battery vertically upward.

(Refer to Figure 1 and Figure 2)

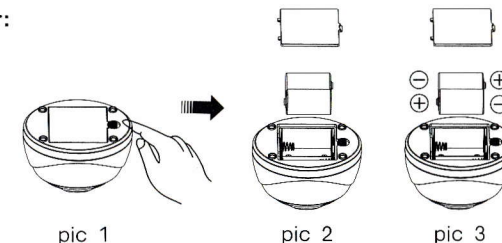
**Attention:** if need to change the battery, please contact the after-sales service center or professional maintenance staff for changing.



- ② Please place the positive and negative electrode correctly for fear of the damage due to wrong electrode!
- ③ If it will be unused for long, please charge the battery full to extend the battery life. When next time use, charge if for 8 hours to make sure it in the best use state.
- ④ Use the battery provided or recommended by manufacturer, or it may cause damage.
- ⑤ Battery NO.: NI-MH-017144
- ⑥ Warranty : 6 months.

##### 2. Battery replacement of Space Isolator:

1. Unplug the base button of the space isolator and open the battery cover.  
(Refer to pic 1)
2. Please place the batteries with correct polarity (+/-) (Refer to pic 2 and pic 3)
3. Please take out the battery if it was unused for long.



#### Attention:

1. Please don't forget to take out the battery before discarding the cleaner.
2. Please remember to turn off the switch before taking out the battery from the Cleaner and Space Isolator.
3. Please don't place the battery in the high-temperature environment above 45°C or in the water.
4. Please don't exert external force to the battery or drop them from high place.
5. The battery should be recycled with safe disposal. Please don't discard it freely or throw it into fire for fear of explosion!
6. If the battery leakage, be careful avoid the liquid to skin or clothes, use dry mop to clean if touched and send the battery to recycle bin or maintenance service, do not throw anywhere.
7. Please don't use non-rechargeable battery for the Cleaner.

## **TROUBLESHOOTING**

### **1.The vacuum cleaner keeps backward or turns left (right) duly turn on.**

- 1.1 Turn off the vacuum cleaner.
- 1.2 Check that if the sensor window is dirty; clean the sensor with the cotton swab or soft cloth.
- 1.3 Check the front bump if it is not work. Press the left, middle and right part of the front bump step by step, ensure they will spring back automatically.

### **2.The vacuum cleaner gets in trouble as roadblock.**

- 2.1 The vacuum cleaner may get in trouble as roadblock when it cleaning, it will try to get out of the trouble by itself firstly. If not, please help the robot cleaner and clean the roadblock by hand.
- 2.2 The vacuum cleaner may twine by power cord.
- 2.3 The vacuum cleaner may clog by the edge of dropping curtain or carpet.
- 2.4 Check if there are too many roadblocks around the vacuum cleaner.

### **3.The vacuum cleaner fell down the stairs**

- 3.1 Generally speaking, step sensor could detect 8cm altitude difference of most kinds stairs. However, if the stair edge is too smooth and evasive, or highly reflective, the sensor detection functions will be week, and please put the space isolator here.
- 3.2 Clean the cliff sensors in the front part of vacuum cleaner.

### **4. The vacuum cleaner is not working or the vacuuming quality is poor.**

- 4.1. Turn off the vacuum cleaner and take out the dust container.
- 4.2. Check that the dust container is empty, the suction and filter are clean, and that the side brush is working properly.
- 4.3. Check the main brush that if it was clogged by hair or fibre. Clean it the fix it back.
- 4.4. Check the rubber wheels if they were clogged by rubbish.
- 4.5. Clean the wall sensors in the front part of the vacuum cleaner.

### **5. Increased noise level when vacuuming**

- 5.1. Clean the dust container and filter.
- 5.2. Check that the main or side brushes are not excessively soiled.
- 5.3. Check the suction port if it was blocked.
- 5.4. If the increased noise level persists, send the vacuum cleaner to an after-sales center where the lubricant will be refilled.

### **Attention:**

**If the failure still exist after the above check, please contact the after-sales service center, professional maintenance staff or the technical center of the company, do not disassemble and maintain it by yourself.**