Smart Sweeping Robot

HXS-T370

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Safety Notes

Please read the following safety notes carefully and abide by all routine preventive measures for safety.

- Please read this manual carefully.
- Please keep this manual well.
- This product may be damaged due to any operation inconformity to this manual.

■ Expressions

Danger — It means that casualties or serious injuries may be caused in case of disobedience to this instruction or maloperation.

Warning — It means that casualties or serious injuries may be caused in case of disobedience to this instruction or maloperation.

Note — It means that casualties or serious injuries may be caused in case of disobedience to this instruction or maloperation.

■ Symbols & Diagrams

Prohibition — ⃠ This symbol refers to prohibited (forbidden) conducts. Detailed prohibition contents are indicated in or near the diagram.

Indication — ● This symbol refers to conducts that must be (need to be) implemented compulsorily. Specific compulsory conducts are indicated in or near the diagram.

Note — △ This symbol aims at calling your attention. Specific attention contents are indicated in or near the diagram.

*1. Serious injuries include: blindness, burn, electric injury, fracture and poisoning, etc. involving sequela and long-time hospitalization.
*2. Staff injuries include: injuries, including burn or electric injury, to people who do not need hospitalization.
*3.Material damages include: damages to household furniture, finance and pets and so on.

■ Notes on safety use of the host, charging dock, power adapter and accessories, etc.

⚠ Warning

Dismantling is forbidden — Do not dismantle, repair or refit the product by yourself. Otherwise, the product may be damaged and you may be injured.

Prohibition — This product shall be used as a power adapter configured by the manufacturer only. Otherwise, the product may be damaged or fire may be caused.

Dust removal — If there is dust on the metal part of the power socket or around it, it must be wiped and cleaned with dry mop. Otherwise, electric shock, heating and fire, etc. may be caused.

AC — AC voltage
The power adapter shall be between AC 100V and 240Vac. Please insert it into the socket correctly and avoid children touch it

Prohibition — Please don’ t use the product in the place where fire or explosion may be caused. If the product is used in the place with flammable gas, e.g. propane gas and gasoline, an explosion or fire may be caused.

Prohibition — It is forbidden to stand or sit on this product. Otherwise, the product may be damaged or you may fall down.

Prohibition — It is forbidden to use metal and conductive substances to touch the contact of the battery. Otherwise, in case of a short circuit, heating, fire or explosions, etc. may be caused.

Prohibition — It is forbidden to wash and soak the host and charger with a lot of water. Otherwise, the host and charger may be damaged for an internal short circuit.

Safety Notes

Prohibition

It is forbidden to damage and process the power cable. Do not put a weight on the power cable or heat, drag or bend the power cable forcefully. Otherwise, the power line may be damaged and fire or electric shock, etc. may be caused.

Indoor

Indoor use
This is an indoor household product. Please do not use it outdoors.

Prohibition

Do not touch.
When the product is operating and cleaning, please pay attention to the safety of babies, children and old people and avoid someone tripping. Please do not touch wheels and side brushes by hand, so as to avoid being hauled in and injured, and pay more attention to children.

⚠ Note

Do not touch

Do not touch it with a wet hand.
Do not touch it with a wet hand in the charging process. Otherwise, an electric shock may be caused.

Prohibition

Do not expose to sunshine.
This product is a kind of precise electronic equipment. Do not expose it in the sunshine for a long time.

Prohibition

Please keep this product close to cigarettes, lighters and other open fire.

If the product is not in use for a long time. Please turn off the power supply switch at the bottom of the machine.

Please carefully check if the power adapter is connected with the power socket well. Otherwise, the battery may be damaged.

When the dustbin is full, please clean up dust rubbish and then use the machine.

The use temperature scope of this product is from 0°C to 40 °C. Please do not use it in the high temperature environment.

Prohibition

Please put this product in the place where it may fall down easily (e.g. on the desk, chair or high stand in the room).

Prohibition

Please do not use this product in a wet environment (e.g. bathroom).

Please clean up this product after charging it.

Before using this product, please remove all wear goods (e.g. glass cup and lamp) on the floor and those that may entangle the side brush and air suction channel, (e.g. electric wire, paper scraps and window curtain).

This product may not be able to stride the vertical step about 8mm high.

Please do not use the machine to clean construction rubbish.

Battery
Please dismantle the battery from the machine before it is scrapped. When the battery is dismantled, please ensure that it is switched off. Please recycle the scrapped battery for safety and environmental protection.

Safety Notes

Notes on using rechargeable batteries

⚠Danger

Prohibition — Do not use a special battery adapter. Otherwise, leakage, heating or cracking may be caused.

Unplug — Do not short-circuit or dismantle the battery. Otherwise, leakage, heating or cracking may be caused.

Prohibition — Do not deliver or save it together with metal products, e.g. necklace and hairpin. Otherwise, leakage, heating or cracking may be caused for short circuit.

Prohibition — Do not throw the battery into fire or heat it up. Otherwise, leakage, heating or cracking may be caused.

⚠Note

Prohibition — In case of abnormal heating in the charging process, please stop using the product at once. Otherwise, leakage, heating or cracking may be caused.

Indication — In order to prolong the service life of the battery, please take it out and put it in a cool and dry environment if you do not use it for a long time. Otherwise, leakage, heating or cracking may be caused.

Do not immerse or it into water or touch it with water. Otherwise, leakage, heating or cracking may be caused.

In case of abnormity (e.g. color change or deform), be sure to stop using it. Otherwise, leakage, heating or cracking may be caused.

During recycling or scrapping, do not use adhesive tapes, etc. to insulate electrodes.

Ni-MH — Heating, cracking or fire may be caused in case of touching other metals. Please bring the waste battery to the maintenance service center or recycler authorized by Haier Robot or scrap it according to local legislations.

⚠Warning

Prohibition — Battery box deformation
If the battery pack is deformed or expanded or electrolyte flows out, it is forbidden to charge and install the product for use to avoid risks.

Prohibition — Do not use the rechargeable battery on other equipment.
The rechargeable battery applies to Haier smart sweeping robot only.

Prohibition — If the battery leakage touches skin or clothes, do not use clean water for washing at once.
If you do not pay enough attention, chafing may be caused.

Do not hit against the battery strong or throw it away.
Otherwise, leakage, heating or cracking may be caused.

It is forbidden to dismantle the battery pack.

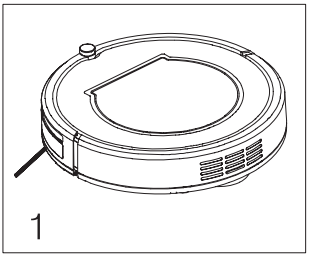
The battery pack may crack, the electrolyte may flow out and serious risks, e.g. fire and explosion, may be caused.

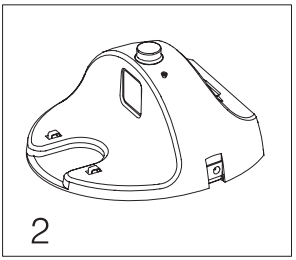
Product Components

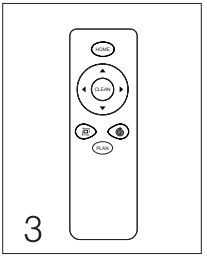
Host and accessories

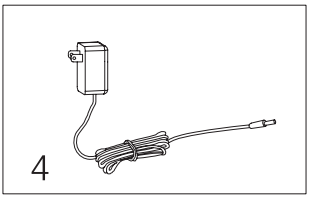
No.	Item	Quantity
1	Host	1 pcs
2	Charging dock	1 pcs
3	Remote control	1 pcs
4	Power adapter (19V 1A)	1 pcs
5	Clean tool	1 pcs
6	User manual	1 pcs
7	Side brush	1 pcs
8	Water tank assembly	1 pcs

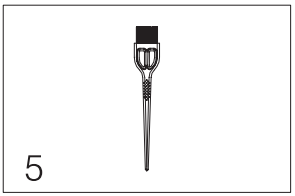
Note: This water tank assembly only applies to some models.
The specific instructions on the packing list shall prevail.

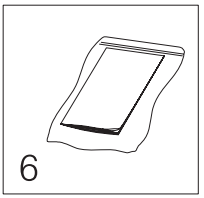


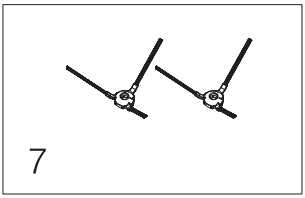


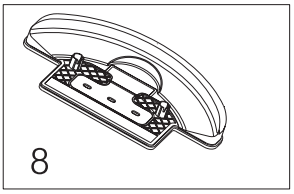






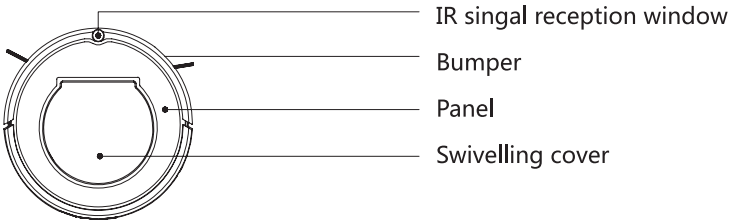


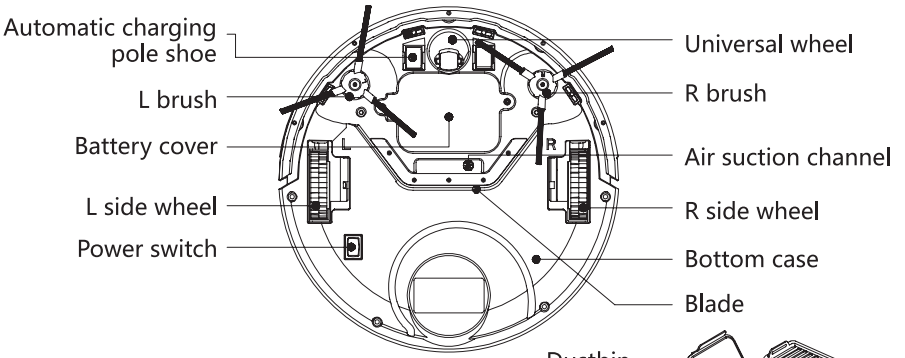


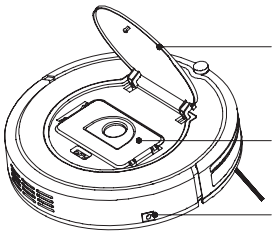


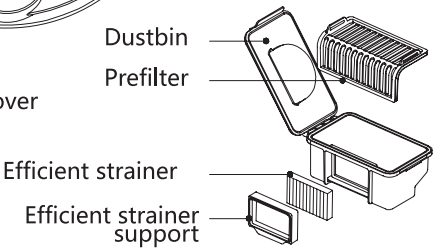
Product Components

Illustration of Host

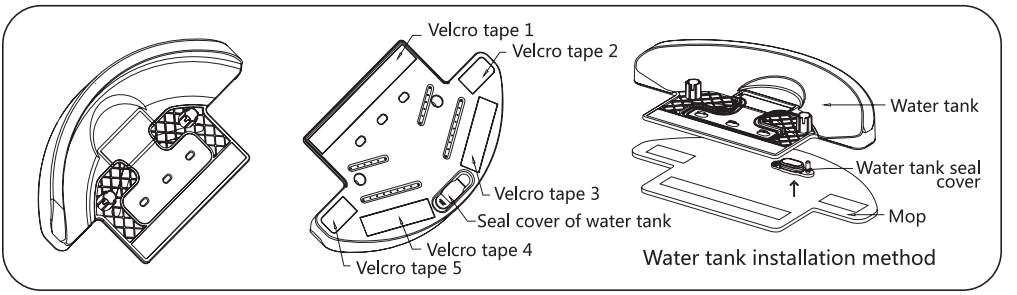






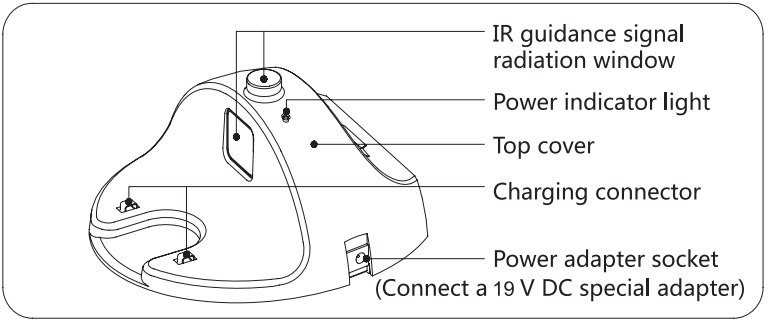


Water tank assembly (This water tank assembly only applies to some models. The specific instructions on the packing list shall prevail.)



Product Components

Charging dock



Remote control

1 "CLEAN" button

A. Under the standby mode, the machine starts cleaning automatically by pressing this button.

B. Under the sleep mode, the machine enters the standby mode from the sleep mode by pressing this button.

C. Under the operating mode, the machine stops cleaning by pressing this button.

D. Under the plan mode, please refer to Page 11 Plan cleaning for function of this button.

2. Direction buttons

A. "▲"Up

Under the plan mode, the figure will be increased by pressing this button.

Under the standby mode or operating mode, the machine moves forward by pressing this button.

B. "▼"Down

Under the plan mode, the figure will be decreased by pressing this button.

Under the standby mode or operating mode, the machine moves backward by pressing this button.

C. "◄"Left

Under the plan mode, you can choose to switch to minutes and hours after pressing this button.

Under the standby mode or operating mode, the machine rotates to the left by pressing this button.

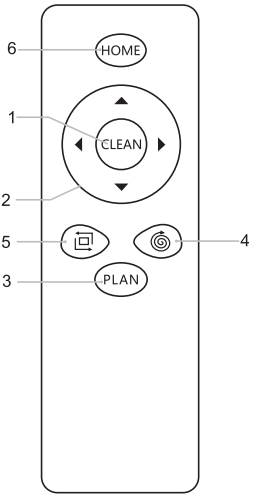
D. "►"Right

Under the plan mode, you can choose to switch to minutes and hours after pressing this button.

Under the standby mode or operating mode, the machine rotates to the right by pressing this button.

Product Components

3. "PLAN" button
   Under the standby or charging mode, the machine enters the plan mode by pressing this button.
4. "SPOT" button
   Under the standby or charging mode, the machine starts cleaning mightily by pressing this button.
5. "EDGE" button
   Under the standby or charging mode, the machine starts cleaning along the edge by pressing this button.
6. "HOME" button
   Under the standby or charging mode, the machine returns to the charging dock for recharging its battery by pressing this button.

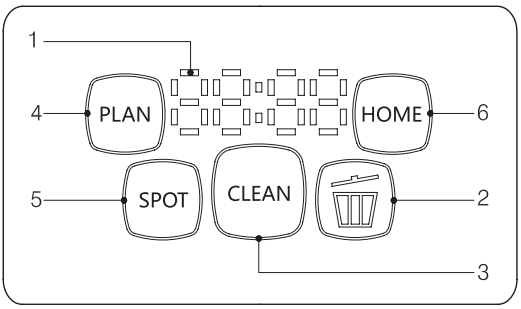


!Note:

1. Please assemble two pieces of AAA batteries before use.
2. If the remote control is not in use for a long time, please take out its batteries.

Product Components

Display section



Display screen

1. " 88:88 "

It displays the time set, charging state and error code and so on.

2. " 🗑 "

It displays full dust. If this light is on constantly, it means the dustbin is full or the air suction channel is blocked and needs to be cleaned up.

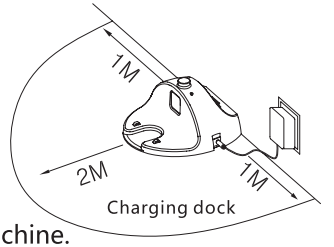
Button section

3. "CLEAN" button
   A. Under the standby mode, the machine starts cleaning automatically by pressing this button.
   B. Under the sleep mode, the machine enters the standby mode from the sleep mode by pressing this button.
   C. Under the operating mode, the machine stops cleaning by pressing this button.
4. "PLAN" button
   Under the standby or charging mode, the machine enters the plan mode by pressing this button.
5. "SPOT" button
   Under the standby or charging mode, the machine starts cleaning mightily by pressing this button.
6. "HOME" button
   Under the standby or charging mode, the machine returns to the charging dock for recharging its battery by pressing this button.

Product Operation

1.Quick user guide

1>.Put the charging dock against the wall and remove all barriers within 1m on its left and right and 2m at the front, as shown in the right diagram. Then, connect the adapter and power supply. At that time, the power indicator on the charging dock shall be on constantly.



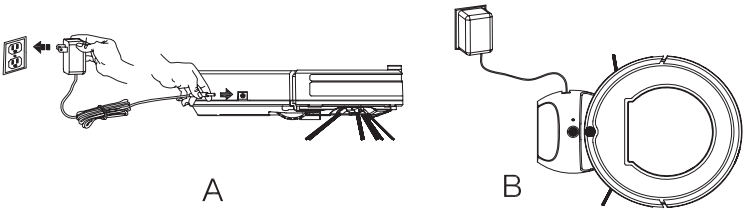
2>.Turn on the power switch at the bottom of the machine. Then, the display screen turns on and the machine enters the standby mode.

! Warning: Before charging the machine, please make sure that the power switch is ON, so as to avoid a charging failure.

3>.The machine may be charged in one of the following two modes:

A.Insert the power adapter onto the machine and connect the other end to power supply, as shown in the following drawing A.

B.Under the standby or operating mode, after you press the "HOME" button on the remote control or the machine, the machine will return to the charging dock automatically, as shown in the following diagram B.



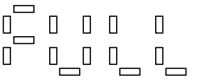
! Note:

When the charging dock is used for charging the machine, the machine will start operating after the "start/pause" button on the remote control or the "sweep" button on the machine is pressed. When the power adapter is connected to the machine directly for charging, this operation is forbidden.

! Note:

A.When the machine is charged, the period " " is displayed from the left to the right on the display screen.

B.When the machine is charged for the first time, it shall be charged for 12h above. After it is charged fully, " " will be displayed on the display screen, as shown in the right diagram.



C.Usually, please store the machine on the charging dock to ensure that the charging dock is connected to power supply.

D.After the electricity of the machine is used up, please check if the machine can be charged properly.

E.If the machine is not in use for a long time, please shut down its power supply.

4>.Automatic charging

A.In case of low power, the machine will start looking for the charging dock for being recharged automatically.

B.Please ensure that the charging seat is ON and try to avoid putting it at barrier position. Otherwise, the machine cannot find the charging dock for being recharged.

C.This product meets the ERP energy consumption standard.

D.In order to find the most suitable charging position, the machine may be recharged normally after it go up and down the charging dock for 3 or 4 times.

E.The machine may fail to be recharged automatically with a water tank.

2.Start/pause/sleep

Sleep mode: the power switch is ON, the display is OFF and the machine is static.
Standby mode: the power switch is ON, the CLEAN button, HOME button, spot button and PLAN button are ON constantly and the machine is static.
Operating mode: when the machine is operating, the button light on the display screen is constantly on.
Operating process of the machine: sleep mode – standby mode – operating mode.

1>.Start

A.Ensure that the power switch at the bottom of the machine is ON.

B.Press the "CLEAN" button on the remote control or the "CLEAN" button on the host to enable the machine to start operating.

! Note:

If the machine is under the sleep mode, press the "CLEAN" button on the remote control or the host to make it switch from the sleep mode to the standby mode and then pressure the "CLEAN" button again to enable it to start operating.

2>.Pause

PAUSE means that the machine switches from the operating mode to the standby mode and can be completed by the operation below:

A.Press the "CLEAN" button on the remote control.

B.Press the "CLEAN" button on the host.

3>.Sleep

If the machine is not operated in 20-25s, it will enter the sleep mode automatically.

! Note:

If the machine is not in use for a long time, please turn off its power switch.

3.Plan cleaning

After the plan is set successfully, the machine will start operating at the set time.

1>The machine takes the current time as a reference for plan and confirms the plan time in an increase or decrease way.
For instance, if the current time is 10:00 and the plan time is set at 5:30 successfully according to the manual, the machine will start cleaning at the time 15:30 and then start cleaning at 15:30 every day from then on. If the machine power is OFF, a plan shall be made again.

2>When the machine is under the selection mode or charging mode, if you press the button "PLAN" on the remote control or "PLAN" on the machine body, the display screen of the machine body will display the plan time. For example, after the "PLAN" button is pressed, if the display screen displays 02:25, it means the machine starts cleaning 2h 25min. later from now on. If the display screen displays 00:00, it means no plan is set for cleaning.

3>The machine has two plan approaches:

***Set a plan for cleaning through the button on the host panel:**

A.Under the selection mode or charging mode, press the button "PLAN" to enter the plan mode.

B.Press the button "CLEAN" to enter the plan set mode. Then, press the "SPOT" button and "HOME" button to set the hour. If you press the "PLAN" button directly, this plan will be cancelled.

C.Press the button "CLEAN" to switch to the minute set mode. Then, press the "SPOT" button and "HOME" button to set the hour. If you press the "PLAN" button directly, this plan will be cancelled.

D.Press the "CLEAN" button to confirm the plan time set.

E.Press the "PLAN" button to save the plan set and exit from the plan mode.

*** Set the cleaning time through the remote control:**

A.Under the selection mode or charging mode, press the button "PLAN" to enter the plan mode.

B.Press the button LEFT and RIGHT to switch to the hour and minute plan and press the button FORTH and BACK to adjust the plan time. In this process, after pressing the button "HOME", the plan time will return to zero and be saved automatically.

C.Press the button "CLEAN" on the remote control to save the plan time set.

D.Press the button "PLAN to save the plan set and exit from the plan mode.

! Note:

A.When you change the battery of the remote control, it is unnecessary to reset the plan cleaning time.

B.If the power switch at the bottom of the machine is OFF, the plan will be cancelled and you need to reset the plan time again.

C.When the machine is under the selection or charging mode, if you press the "PLAN" button on the remote control and then press the "HOME" button on the remote control again, the previous plan information will be cancelled and cleared.

D.The machine can provide the plan by half an hour and the clock set can be set by minute.
E.During plan, there are prompt tones for the confirmation of all operations. If not, the plan set is invalid.
4.Water tank assembly (This water tank assembly only applies to some models. The specific instructions on the packing list shall prevail.)
1>Open the seal cover at the bottom of the water tank, fill clean water to the position between 1/2 and 2/3 of the volume of the water tank. After that, amount the seal cover of the water tank well and then past the mop flatly at the bottom of the water tank. See Figure I.
2>The water tank assembly shall be suspended at the bottom of the host (see Figure II). Two columns on the water tank assembly shall be embedded into two holes on the host base (see Figure II). Keep the water tank assembly close to the base.
A.The machine may fails to be recharged with a water tank.
B.The climbing capacity of the machine will be affected with a water tank.
C.It is forbidden to charge the machine with a water tank to avoid risks.

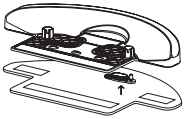


Figure I

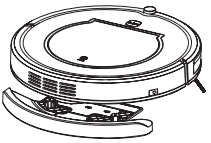
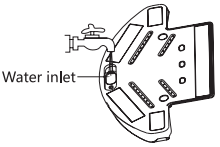


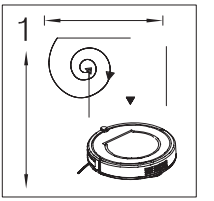
Figure II



5.Cleaning mode

1>.Automatic cleaning

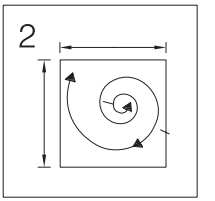
Under the standby mode, after you press the "CLEAN" button of the remote control or the machine, the machine will start cleaning automatically and also adjust its cleaning mode automatically according to different ground and room environments.



2>.Spot cleaning

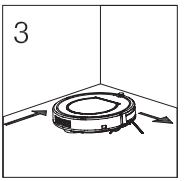
A.In the dusty area, the machine will increase its fan speed automatically to increase the suction and moves forward spirally for cleaning focally.

B.Put the machine besides the dusty area and press the "SPOT" button of the remote control or the machine body, and then the machine will start cleaning focally.



3>.Edge cleaning

Under the standby or operating mode, if you press the "EDGE" button of the remote control, the machine will start cleaning along the maximum edge of the room.



! Note:

A.After the spot mode /edge mode is over, the machine will enter the automatic cleaning mode.

B.Under any cleaning mode, the machine will stop cleaning if you press the "CLEAN" button of the remote control or the machine body.

Product maintenance

1.Cleaning of left and right brushes

If side brushes are dirty, please wash them with clean water and then use them after they get dry naturally. If they are damaged and cannot work normally, please change them.

! Note:

When changing side brushes, please correspond the sign "L" and "R" on the side brushes to the position "L" and "R" at the bottom of the machine respectively.

2.Cleaning of dustbin and strainer

A.After you press the finger sign of the swiveling cover, the cover will open automatically.

B.After taking out the dustbin, please check if the suction channel of the host is obstructed by foreign matters and also clean it up.

C.Remove the efficient strainer.

D.Remove the preliminary strainer.

E.Lower the dustbin until dust is poured out.

F.Clean up the dustbin, preliminary strainer and efficient strainer fully. We suggest cleaning up the efficient strainer once after using it for 15-30 days. The maximum service life of the efficient strainer is 24 months. The efficient strainer shall not be cleaned with a brush but shall be blown with a dryer or knocked slightly by virtue of an external force to make dust fall down. Do not wash it with water.

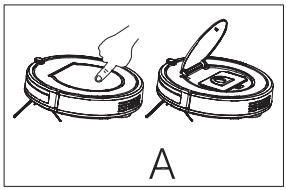
G.Assemble them correctly. Please ensure that the two strainers are assembled well to avoid damages to the machine.

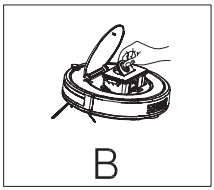
! Note:

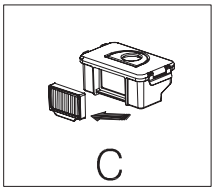
A.Please clean up the dustbin and the suction channel after cleaning every time.

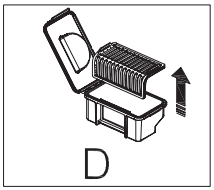
B.After its components are washed with water, keep them getting dried naturally but do not dry them under the sunshine. They shall be put into the machine for use after they are fully dried to avoid affecting functions and life of the machine.

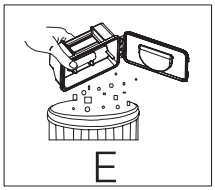
C.If the preliminary strainer and the efficient strainer are damaged, they shall be replaced in time to avoid affecting the dust removal result.

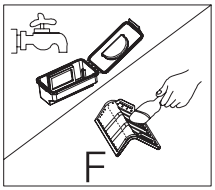


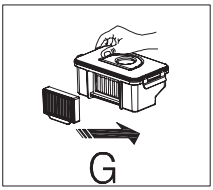


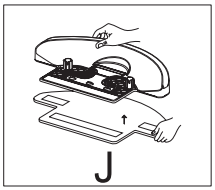












3.Maintenance of cleaning mop

A.Remove the cleaning mop, and then wash and dry it naturally, as shown in Figure J.

! Note:

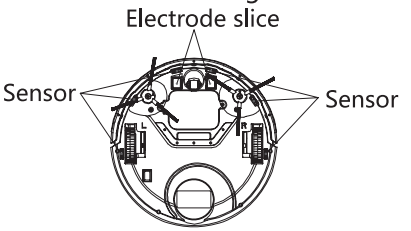
*Please do not use the mop which is still dipping water to avoid the product slides in the operation process.

*Operating environment: wooden floor, ceramic tile and marble, painted hardened floor, etc.

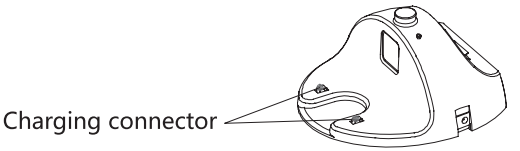
*The mop belongs to the water tank assembly, which only applies to some models. The specific instructions on the packing list shall prevail.

4.Cleaning of sensor lens and electrode sliceElectrode slice

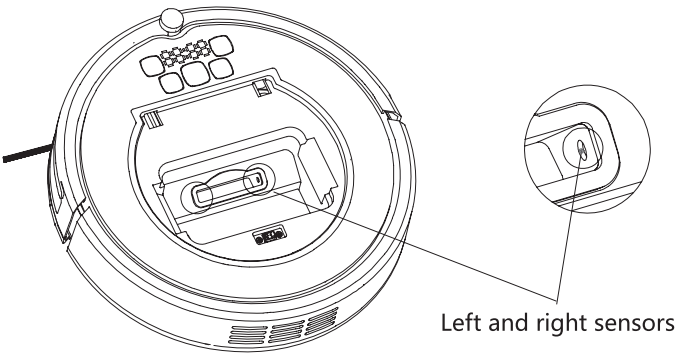
A.Use a cleaning tool or a piece of soft cloth to wipe the sensor and electrode slice slightly. See positions indicated in the diagram below:



B.Use a cleaning tool or a piece of soft cloth to wipe the charging connector. See the position indicated in the diagram below:



C.Use a cleaning tool or a piece of soft cloth to wipe the left and right sensors in the suction channel. See the positions indicated in the diagram below:



Alarm code table

When common faults happen to the machine, their codes will be displayed on the display screen. "X" in the table below may be any of figures from 0 to 9 or letters from A to D. If the code displayed on the machine meets the following two rules, the machine will have two kinds of faults (some faults are prompted by voice).

Alarm code	Fault reason	Solution
L001	L side wheel is overloaded	Check the L side wheel
L002	R side wheel is overloaded	Check the R side wheel
L004	L side brush is overloaded	Check the L side brush
L008	R side brush is overloaded	Check the R side brush
E40X	L side wheel is suspended	Put the host on the floor again
E80X	R side wheel is suspended	Put the host on the floor again
E00X	Cliff sensor error	Put the host on the floor again
E10X-E30X	Bumper is clamped	Check the flexibility of the bumper and check if there is any foreign matter
Erro	Power is not switched on successfully at the bottom while charging	Switch on the power supply at the bottom of the machine
Constant ON	The dustbin is full or the suction channel is blocked	Clean up the dustbin or the suction channel

! Note:

If the problem cannot be solved with the method above, please try the following actions:

1.Switch on the power supply at the bottom of the machine again and restart the machine.

2.If the problem cannot be solved by restarting, please send the machine to After-sales Service Center for maintenance.

Battery replacement

Battery replacement

1.Use a screwdriver to remove screws of the battery cover at the bottom of the machine.
2.After the battery cover is removed, drag the insulating strip on the battery to take out the battery.
3.Slightly open the lock of the battery connecting plug to separate the battery from the host.
4.Connect the plug of the new battery with the socket of the host.
5.Put the new battery into the battery case and keep the face with characters upwards.
6.Sort out the electric wire and stuff it besides the battery and then lock the battery cover.
7.Switch on and check if the machine works normally.

! Note:

A.The battery configured for the machine shall be used only to avoid damaging the machine.
B.After the battery is replaced, the new one shall be charged above 6 h for the first time.
C.Please recycle the old battery for environmental protection after it is replaced.

Product parameters

Classification	Item	Parameter
Structural class	Diameter	320mm
	Net weight	3.5kg
Electronic class	Voltage	14.8V
	Battery capacity	Lithium-ion 2600mAh
Cleaning parameters	Charging mode	Automatic charging Manual charging
	Cleaning mode	Automatic cleaning, spot cleaning, edge cleaning
	One-time charging time	About240-360min
	One-time cleaning time	About100min
Host button type		LED touch button

Note: This product shall be stored in the ambient temperature range from 0°C to 40°C.

Part Name	Hazardous Substance					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Metal	○	○	○	○	○	○
Components of Printed Circuit Board	○	○	○	○	○	○
Plastics	○	○	○	○	○	○
Standard Parts (Screw, Washer, etc.)	○	○	○	○	○	○
Other Metal Structural Parts (Electric Motor, Trim Parts*, etc.)	○	○	○	○	○	○

This table is prepared in accordance with the provisions of SJ/T 11364.

O: Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.)

X: Indicates that this hazardous and noxious substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

“X” parts indicate that due to that the limits of the global technologies and process level, the complete substitution of the non-environment friendly substances or elements is unfulfillable and it will be gradually improved with the technical improvement later.

* : Indicates that only partial models of products contain this part.

Marking for Restriction of the Use of Hazardous Substances	The Environment-friendly Use Period (EFUP) of 10 years: It indicates the period, starting from the manufacturing date, during which the toxic or hazardous substances or elements contained in this product will not leak or mutate under normal operating conditions so that the use of such product will not result in any severe environmental pollution, any bodily injury or damage to any assets. Arrow Circulation Marking: It indicates that the products can be recycled. This product which exceeds the service life or can’t work normally after repair shall not be abandoned at will. Please submit this product to the formal recycling channel or the enterprises with the treatment qualification of the waste electrical and electronic products. For the correct treatment methods, please refer to the national or local treatment provisions about the old electrical and electronic products.

The above markings shall be implemented according to the Management Methods for the Restriction of the Use of Hazardous Substances of China and the requirements of associated standard **SJ/T11364.**

The long-term use of the product will not cause harm to the human body. Please feel free to use it.

Marking for Restriction of the Use of Hazardous Substances in Products

Table of Name and Content of Hazardous Substances

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
o Reorient or relocate the receiving antenna.
o Increase the separation between the equipment and receiver.
o Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
o Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

To comply with FCC RF exposure compliance requirements,this grant isapplicable to only mobile configurations. The antennas used for this transmittermust be installed to provide a separation distance of at least 20 cm from allpersons and must not be co-located or operating in conjunction with any otherantenna or transmitter.