

YUJIN ROBOT eX300



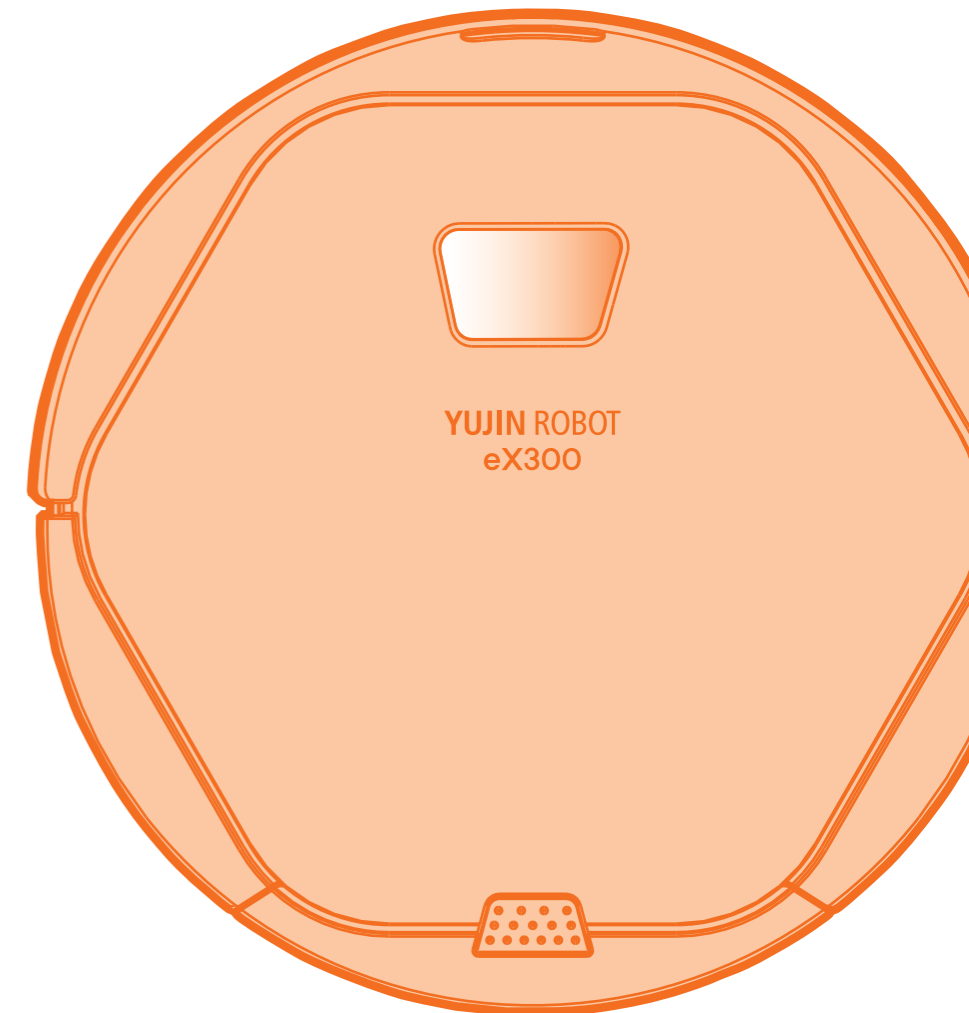
INTELLIGENT CLEANING
eX300

Model Name	eX300 (YCR-M05-P*)
Power	100 V ~ 240 V
Standby energy consumption	Below 1 W
Main body energy consumption	10 W
Battery	Lithium Ion Battery
Diameter	13.8 inches
Height	3.5 inches
Weight	6.06 lbs
Speed	300 mm/s (Max.)
Filter	Antibacterial filter
Sensor	IR, PSD, Encoder, Bumper
Charging Time	110 min.
Usage Time	120 min. (based on normal floor)
Noise Level	58 dB[A]

YCR-M05

User Guide

Robotic Vacuum Cleaner eX300



Yujin Robot Customer Support : 1.855.926.1601

- **Monday-Friday** 9 am to 6pm PST
- **Saturdays** Closed
- **Sundays** Closed

MADE IN KOREA

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One-Year Limited Warranty.

Specifications and features are subjected to change without notice.



iPMN_USA_300_V0

■ Please be sure to read the Safety Precautions before use.

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Please read this manual carefully and follow all warnings and instructions.



Users must be aware of prohibited operation of this product.



Users must follow the instructions to avoid serious injury or death.



Users must follow the instructions to avoid injury or product damage.

Electric and power cord precautions



- Do not wrap the power cord tightly or place heavy objects on it.
 - It may cause electric shock or fire.
- Keep the pin and interface of the power plug clean from dust or water.
 - It may cause malfunction or electric shock.
- Do not pull the power cord or touch the power plug with wet hands.
 - It may cause electric shock or fire.
- Do not use a damaged power plug or power cord, or insert the power plug into a loose outlet.
 - It may cause electric shock or fire.
- In the event water enters the internal part of the cleaner, the product should be sent for service even though the product was dried.
- Do not repeatedly plug and unplug the product.
 - It may cause electric shock or fire.
- Caution should be taken when plugging the adapter directly into the charging socket.
 - It may cause electric shock or fire.

Precautions before using



Prohibition

- Do not touch the charger's power cord with wet hands.
→ It may cause electric shock.



Warning

- Arrange cables or wires before use to avoid entangling with the robot
→ It may cause fire or electric shock due to damaged cable.



Caution

- Remove light objects or clothes before use.
→ It may damage the object or clothing while robot is in use.



Caution

- Remove small or fragile objects from the cleaning area before use.
→ Fragile objects may be damaged.
→ Remove coins or expensive jewelries before cleaning.



Caution

- Clear the floor of objects that may get in the way.
→ Thin towels, pads, power cords, table clothes, etc., may get tangled with the wheels.
Also objects on a table may fall off if the robot bumps a table.



Caution

- Empty the dust bin before operating the robot cleaner.
→ Suction function may not perform well if dust bin is full.



Caution

- Check that the main components such as antibacterial filter, brush and dust bin are assembled properly before cleaning.
→ In the event you use the robot cleaner without the main components, such as the antibacterial filter or brush, the product will not clean properly and such operation may damage the product. Also, children and pets may be deemed as a barrier by the robot cleaner resulting in certain areas not being cleaned.



Warning

- Do not operate robot cleaner when children or pets are present and left alone.
→ The children or pets may be attracted to the robot cleaner and may hurt themselves attempting to play with the product.



Caution

- Do not place the power cord on the floor when installing charging station.
→ Robot cleaner may drag the power line while auto-charge or cleaning.



Warning

- Keep the top of the charging station away from water.
→ It may cause electric shock or fire.

Precautions while using



Warning

- In the event an unusual sound, smell or smoke emanates from the product, immediately turn off the robot cleaner and place it a safe distance away from anything flammable.
→ It may cause electric shock or fire.



Caution

- Do not use the robot cleaner on a table or any high surface.
→ It may damage the product.



Caution

- In rare instances the robot cleaner may scratch or otherwise damage particular flooring. In this event, discontinue use.



Caution

- In the event a large piece of plastic or other substance is suctioned up, remove it immediately.
→ Serious damage to the robot cleaner can occur when it is used for a period of time with its suction duct clogged.



Caution

- Remove the robot cleaner to another area when it is blocked by a threshold of the entrance or porch.



Caution

- Prevent the robot cleaner from suctioning liquid materials.
- Do not use the robot cleaner near flammables such as cigarettes, hot materials or gasoline.
→ It may cause fire.



Caution

- Do not use the robot cleaner outdoors.

Precautions after using



Warning

- In the event a foreign substance is stuck to the sensor mechanism, the robot cleaner may malfunction.



Warning

- Prior to cleaning off foreign substances, turn OFF the power switch and then use the provided cleaning brush to remove.
→ If the robot cleaner operates all of the sudden, it may cause injury or serious damage to the product.



Warning

- In the event the robot cleaner or components are destroyed, contact the manufacturer or service center for repair.
→ It may cause electric shock or fire.



Warning

- Prior to cleaning the charging station, first pull out the power plug for safety reasons.



Warning

- Mishandling of the battery may cause an explosion or fire. At the end of the battery's service life dispose the battery in a lawful manner.
→ It may cause fire.



Caution

- Do not spray water directly on the product or wipe the robot cleaner with volatile materials such as benzene, thinner or alcohol when cleaning the product.



Caution

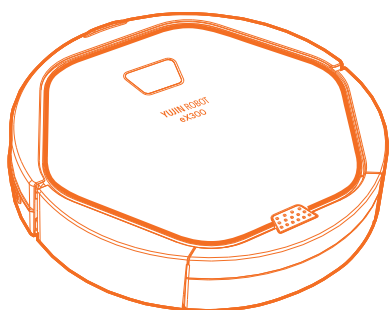
- Do not apply undue pressure to the bumper.
→ In case the bumper sensor is damaged, it may crash on the wall or with furniture.



Caution

- Do not disassemble, repair or alter the product except by an authorized service provider.
→ It may damage the product.

Components



Robot Vacuum Cleaner



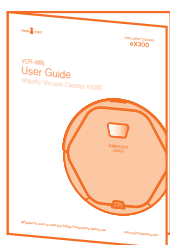
Charging Station



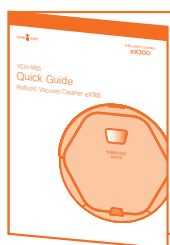
Cleaning Brush
(Cleaning Brush is contained inside of charging station)



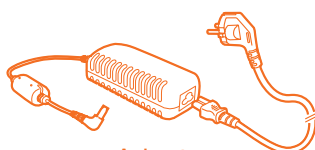
Side-Brush



User Guide



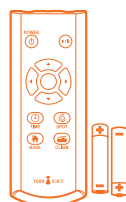
Quick Guide



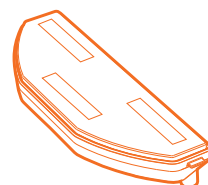
Adapter



Antibacterial Filter



Remote Control
(batteries included)



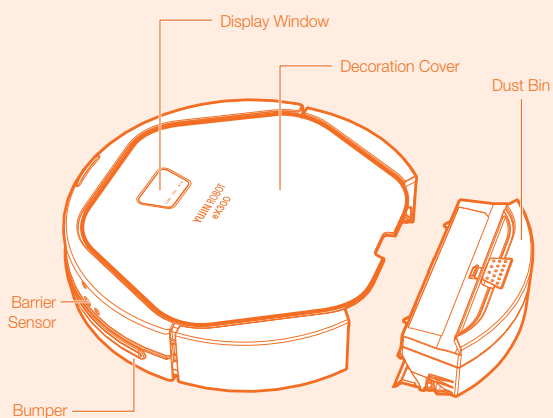
Mop Plate



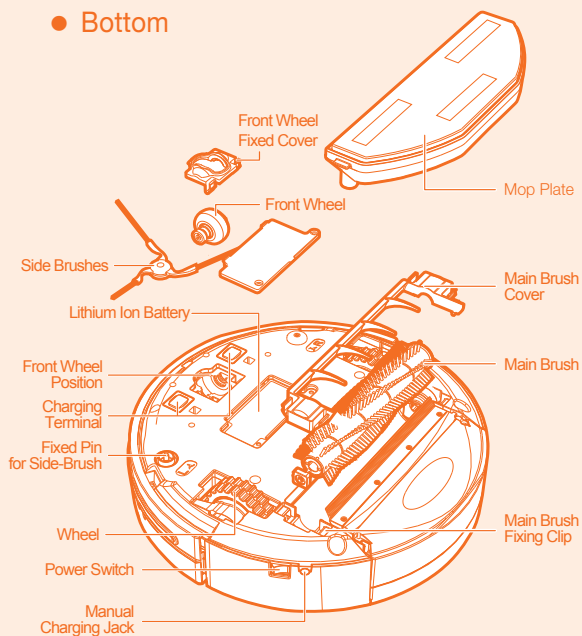
Ultra Microfiber
Wet Mop

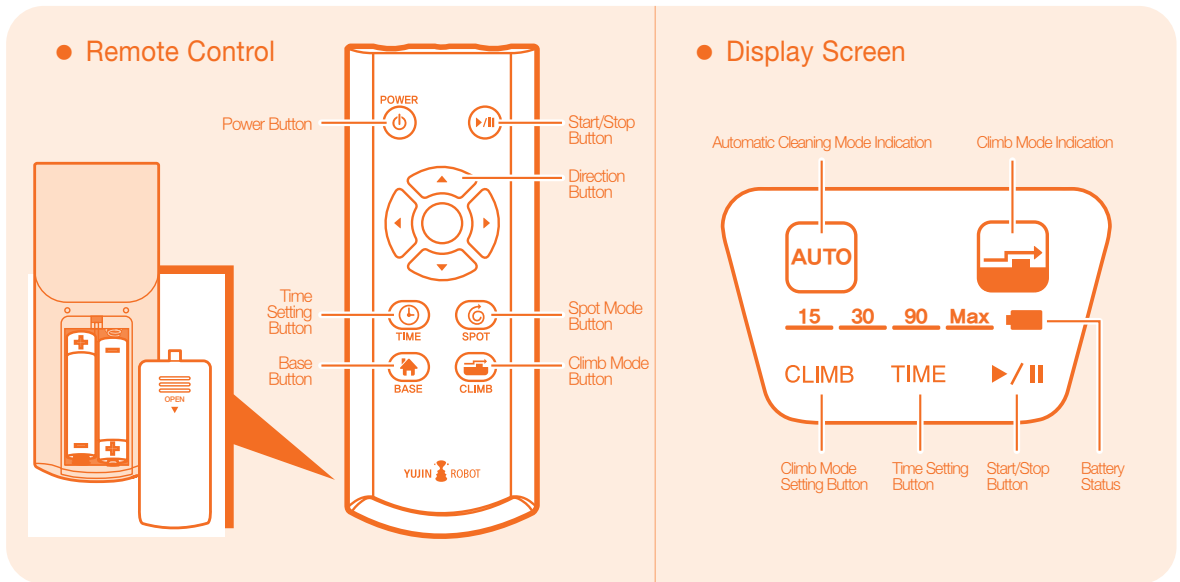
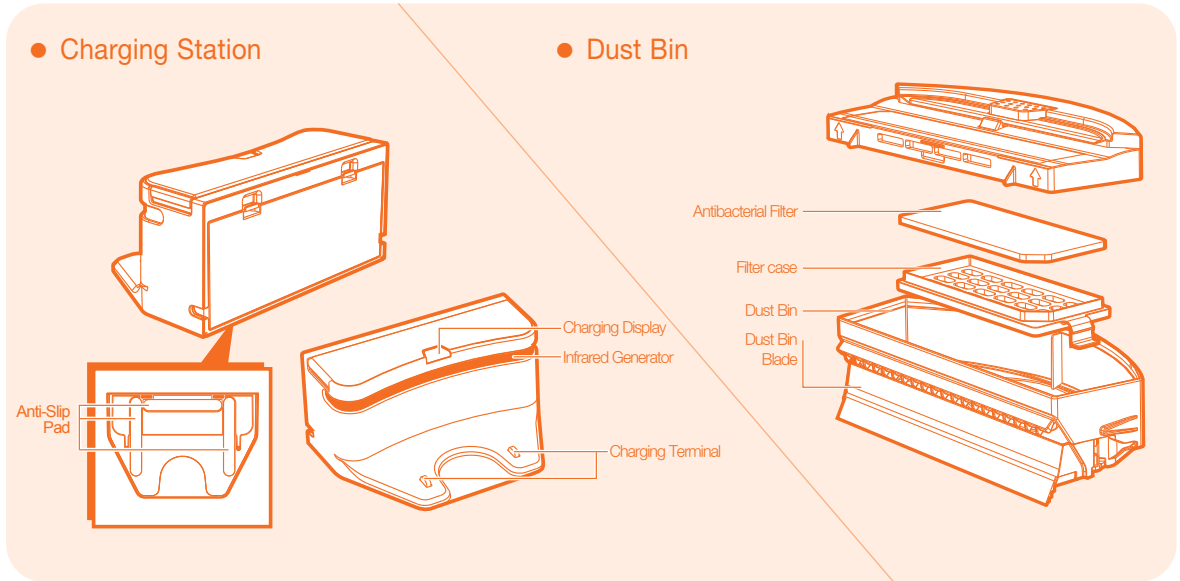
Part Listing

Top



Bottom





Remote control operation

1. Press Start/Stop (▶/||) Button of the Remote Control to start cleaning.
2. Press Start/Stop (▶/||) Button or Power Button to stop cleaning
3. Operating Spot mode (**SPOT**) is only available by Remote Control
4. When Base Button (**BASE**) of Remote Control is pressed during cleaning cycle, POP will return to Charging Station, and charging will start automatically
5. By pressing the Power Button (**POWER**) of Remote Control, the display window will be turned off.

Details For optimized cleaning

Please follow the instructions below for high cleaning efficiency.

- Empty the dust bin after each use of the robot cleaner.
- Remove all the non-fixed objects such as toys, magazines or shoes before cleaning.
- Please do not lift or manually move the robot cleaner when the robot is operating.
- Make sure to charge for at least 1 hour before using for the first time.
(Refer to P.9 How to charge manually)

Operating principles of robot cleaner

Principles of operation

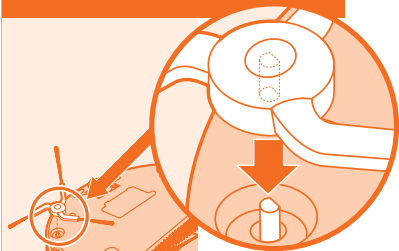
eX300 operating under Random and Spot cleaning mode will recognize obstacles through various sensors. Utilizing 20 detection sensor, the robot cleaner avoids walls, furniture and other objects. It climbs a doorsill of up to 0.79 inches and the floor sensors help it avoid falling down stairs. Be careful that pets or children do not force the robot to fall by playing with it.

Suction of robot cleaner

This product has a main brush, side-brushes and a vacuum suction duct. The dust on the floor is gathered by the rotating side brush, and is swept into the dust bin by the rotating main brush.

Pre operation check list

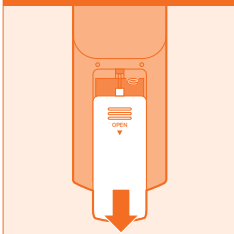
Assemble side brush



1. After turning over the robot vacuum, check the position of the side brush.
2. Match the groove of the side brush to the fixed pin embedded in a hollow opening of the backside of robot cleaner.



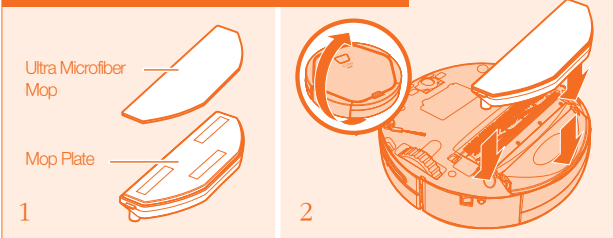
Insert remote control battery



There are no batteries inside the remote control at the time of purchase. Install 2 x AAA batteries before using the remote control.

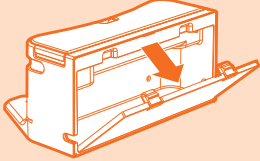
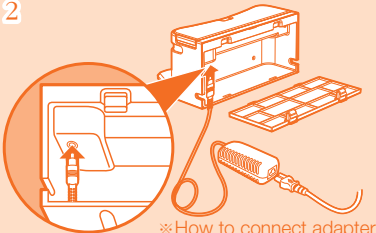
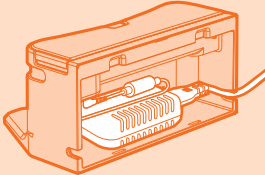
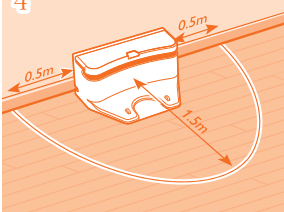
1. Push the cover of the backside of the remote control downward to open.
2. Check (+)(-) of the batteries and install.
3. Match the cover to the groove, and close until “click” sounds.


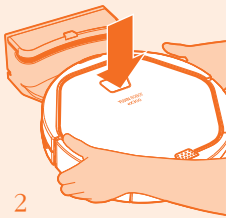
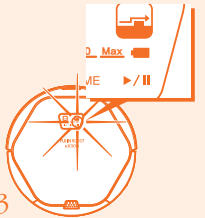
Assemble ultra microfiber mop



1. Turn over the robot vacuum, and install the Mop Plate by combining it to the fixing part of the main body.
2. If Mopping Mode is not used, separate and keep the Mop Plate separate from the Main Body.

Pre cleaning check list

Installation of charging station	1		2	 ※How to connect adapter	3	
	4		Open the back cover of the Charging Station, and install the adapter with connected power plug as shown in Figure 2 above.			

Charging	The battery is not charged at the time of product purchase, so it must be fully charged before first use.
1	
2	
3	
<p>1. Turn on the Power Switch on the side of the product.</p> <p>2. Match the Charging Pin on the bottom of the Main Body with the socket of the Charging Station correctly, and the robot changes to charging mode.</p> <p>▶▶ Robot starts to charge with blinking battery status on the display window.</p> <p>※ Change of the Charging Indicator status on Charging Station</p> <p>Red: robot cleaner is in operation away from the docking station, or the charging connector between the cleaner and docking station is not properly connected.</p> <p>Green Blinking: Recharging (Remaining battery is 40% or less)</p> <p>Green: Recharge completed (Battery is fully charged or over 40% charged)</p> <p>3. The battery is fully charged; the battery status on display will be green.</p> <p>[Auto-charge during use]</p> <p>※ When the battery is low during an operation, this product automatically moves to the charging station and performs auto charging.</p> <p>※ If the base button of the remote control is pressed, it finds and moves to the charging station and starts charging.</p>	

Operation of robot cleaner

Start/Stop cleaning

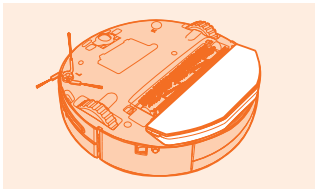
● Basic cleaning

1. Press Start/Stop (or Power) button. (▶/||)
2. Press Start/Stop button again. (▶/||)
(the robot is preset for 90 minutes in normal and starts to work in random.)

ORDER	1	2
Body 	 Start/Stop button	 Start/Stop button
Remote Control 	 Start/Stop button	 Start/Stop button

● Wet mopping

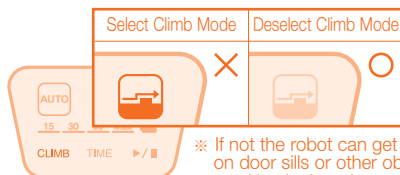
1. Turn over the robot as shown in the picture.



2. Soak Microfiber Wet Mop in water, wring out and then attach to the Mop Plater.
3. Turn over the cleaning robot body to its normal position and press the start button (▶/||) twice.

ORDER	1	2	3
Body 	Install the wet mop on the body	 Start/Stop button	 Start/Stop button
Remote Control 	Install the wet mop on the body	 Start/Stop button	 Start/Stop button

! Please deselect climb mode if you wish to use the robot in mopping mode (after installed mop plate on the bottom)



※ If not the robot can get hung up on door sills or other obstacles, resulting in the robot working improperly.

● Spot mode

Spot (Spiral) cleaning mode, robot spirals in a 5ft radius.

1. Press Start/Stop button. (▶/||)
 2. Press spot mode button. (SPOT)
1. Press Start/Stop button. (▶/||)

ORDER	1	2	3
Body 	※ set up spot mode is only possible via remote control		
Remote control 	 Start/Stop button	 SPOT	 Start/Stop button



※ During spot mode operation, the time indicator light will blink.

● Max mode

In Max mode, robot works until the battery is exhausted.

1. Press Start/Stop button. (▶/||)
2. Press the time setting button (TIME) until a light on the letter Max displays (Max) in the window
3. Press Start/Stop button. (▶/||)

ORDER	1	2	3
Body 	 Start/Stop button	TIME + <u>Max</u> Set Max mode via time button	 Start/Stop button
Remote control 	 Start/Stop button	TIME + <u>Max</u> Set Max mode via time button	 Start/Stop button

● **Climb (Carpet) mode**








The default climbing height of obstacles for the robotic vacuum cleaner is up to approximately 0.2 inches.

If you wish to set the robot to go over obstacles over 0.2 inches, such as a door sill, click CLIMB Button to turn on CLIMB Mode!

: Do not use CLIMB mode on rugs or carpets.

If you press CLIMB Button of the remote control, the performance of the climbing can be increased up to 0.79 inches. (This performance may vary according to the environment, such as the structure of the door sill, etc.)

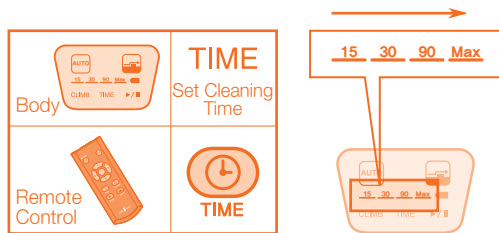
1. Press Start/Stop Button (▶/||).
2. Press climb Mode (CLIMB) Button
3. Press Start/Stop Button (▶/||).

ORDER	1	2	3
Body 	 Start/Stop Button	CLIMB Climb Mode Button	 Start/Stop Button
Remote Control 	 Start/Stop Button	 CLIMB	 Start/Stop Button

Set cleaning time

● **Set cleaning time**

Press Time Button to set cleaning time(TIME). Every time you press the button, the time will be changed according to following order (15 minutes - 30 minutes - 90 minutes - MAX)



Movement / Manual cleaning / Auto-charging

● **Manual controlling (moving)**

If you want to move cleaning robot to a different area, use the arrow keys on the remote control.

- When you press the backward button, the cleaning robot will rotate in place and change directions.
- If you press the direction button when power is on, it will move but it will not clean (vacuum).

● **Manual cleaning**

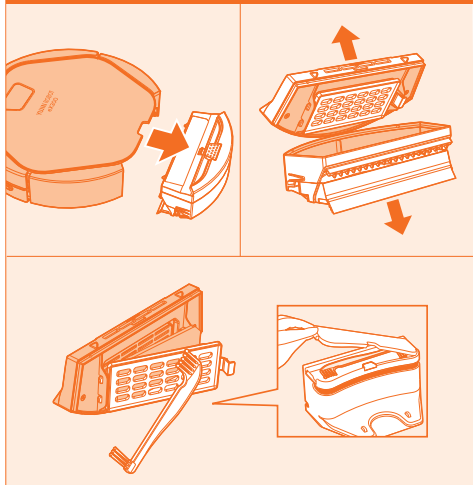
After you start cleaning, press the direction button on the Remote Control to clean the desired area or direction.

● **Auto-charging**

The cleaning robot navigates to the Charging Station and charges automatically when you press the base button on the Remote Control.

- ※ Display window is activated by pressing any of the buttons on the Main Body or by using the Remote Control

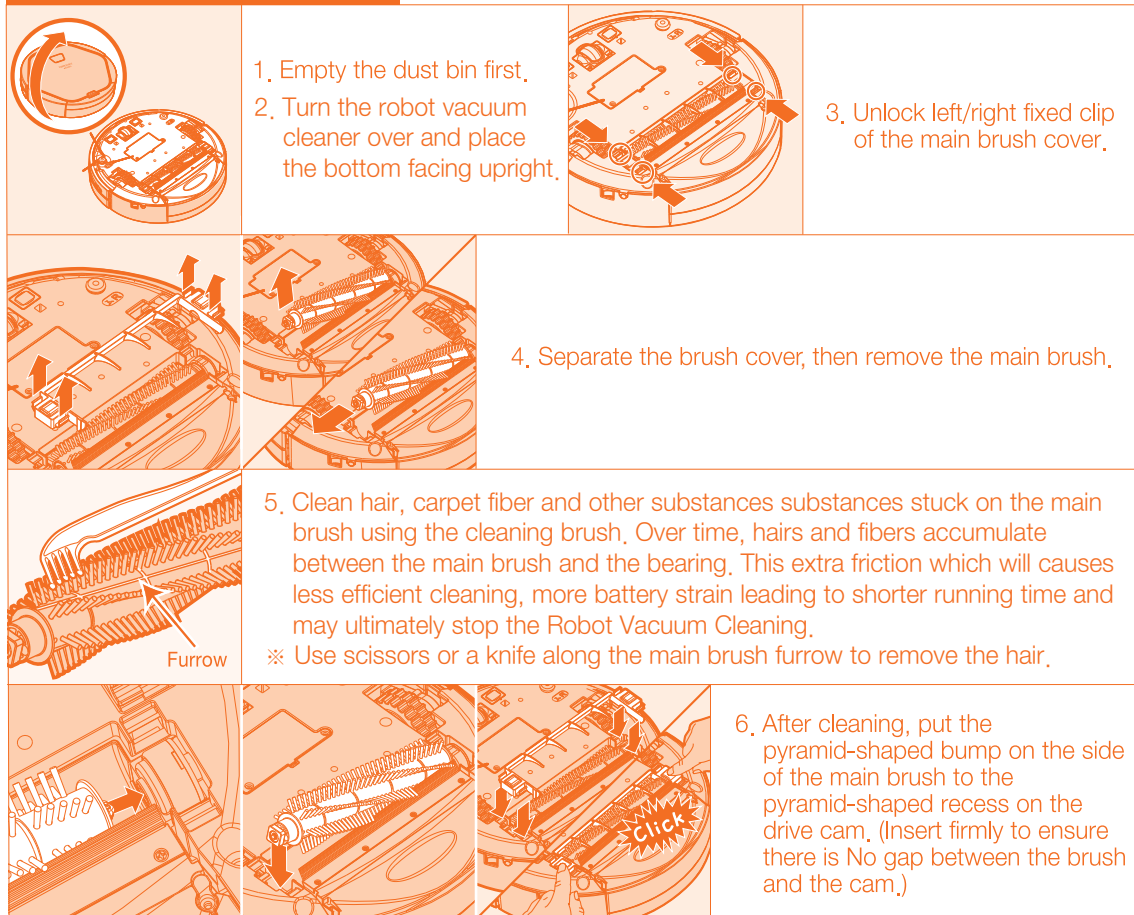
Emptying dust bin and servicing the antibacterial filter



1. Hold the Dust bin as in the figure and separate antibacterial filter cover.
2. Clean the filter using cleaning brush.

※ Dust bin can be washed with water. However, completely dry them before assembling and using them again.

Cleaning main brush



1. Empty the dust bin first.
2. Turn the robot vacuum cleaner over and place the bottom facing upright.

3. Unlock left/right fixed clip of the main brush cover.

4. Separate the brush cover, then remove the main brush.

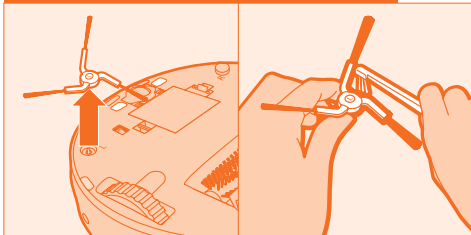
5. Clean hair, carpet fiber and other substances stuck on the main brush using the cleaning brush. Over time, hairs and fibers accumulate between the main brush and the bearing. This extra friction which will causes less efficient cleaning, more battery strain leading to shorter running time and may ultimately stop the Robot Vacuum Cleaning.

※ Use scissors or a knife along the main brush furrow to remove the hair.

6. After cleaning, put the pyramid-shaped bump on the side of the main brush to the pyramid-shaped recess on the drive cam. (Insert firmly to ensure there is No gap between the brush and the cam.)

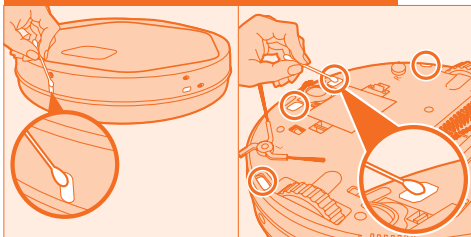
※ Note: be careful not to lose the square-shape bearing which is attached to the end of the main brush once you pull it out for the Main Brush for cleaning.

Cleaning side brush



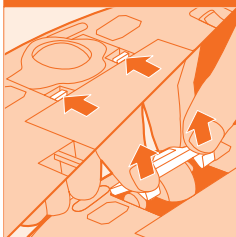
1. Separate the side-brush with both hands.
 2. Clean dust and foreign substance using the cleaning brush.
- ※ When disassembling the side brush, hold the whole three-strip brushes together at the same time and pull it out.

Cleaning sensors

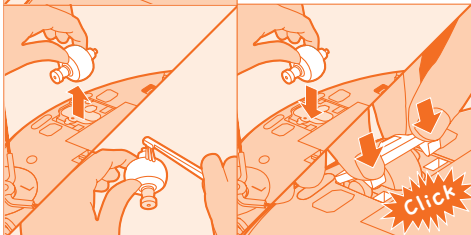


1. Wipe the sensors on the Front Bumper of the robot cleaner using q-tips.
2. Wipe the sensors on the bottom of the robot cleaner using q-tips.

Cleaning front wheel



1. Press the front wheel Fix Clip with both hands and lift it up to separate.
2. Remove foreign substance on the front wheel using the cleaning brush.



3. Pull out the front wheel then clean dust and foreign substances using the cleaning brush. For the main brush, remove the bearings to be able to easily remove any hair or other material on the axle.
4. Put the front wheel back in place and reassemble as shown in the method above.

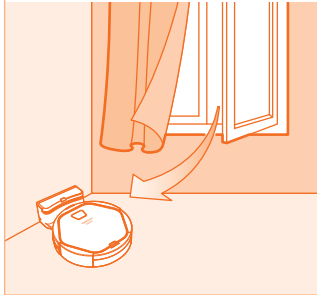
※ The robot vacuum cleaner may not be working properly if the front and bottom cleaning robot sensors are covered, for example, by dust, dirt or hair. Cleaning and careful managing are required for all sensors.

Storage



1. If the vacuum cleaning robot is not used for a long period of time, turn off the power switch on the side of the main body.

※ Please be aware that the battery could be discharged after an extended period of non-use.



2. Keep the vacuum cleaning robot away from direct sunlight. Store the vacuum cleaning robot in a well ventilated location.

※ Please do not store any objects on top of the vacuum cleaning robot as it may cause a malfunction

Battery caution & disposal information

1. Use the lithium-ion batteries for the robot cleaning vacuum, and alkaline batteries for Remote Control.
2. Install only new batteries of the same type in your product.
3. With the correct polarity, as indicated in the battery compartment, may shorten the life of the batteries or cause batteries to leak.
4. Do not mix old and new batteries.
5. Do not mix Alkaline, standard (Carbon-Zinc), rechargeable (Nickel Cadmium) or (Nickel Metal Hydride) batteries.
6. Do not dispose of batteries in fire.
7. Batteries should be recycled or disposed of as per state and local guidelines.



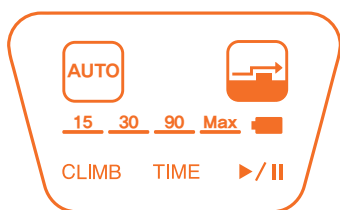
FAQ

If you can not solve the problem with the information below, please contact our Customer Service Center through the website.

Problem	Cause	Solution
It is not cleaning well.	<ul style="list-style-type: none"> ▶ Dust Bin is full. ▶ Main Brush is dirty. ▶ Filter is contaminated. 	<ul style="list-style-type: none"> ▶ See <Product control & maintenance> and empty the dust bin. ▶ See <Product control & maintenance> and use main brush. ▶ See <Product control & maintenance> and clean the dirty filter.
Power switch is turned off.	<ul style="list-style-type: none"> ▶ Battery is low. ▶ Battery is not inserted properly into the robot cleaner. ▶ Main brush is clogged with hair and dust. 	<ul style="list-style-type: none"> ▶ Re-charge the robot cleaner. ▶ See <Product control & maintenance> and empty the dust bin. ▶ See <Product control & maintenance> and clean the dust bin.
The robot is not responding.	<ul style="list-style-type: none"> ▶ Power switch is turned off. ▶ Remote Control batteries not working. ▶ Infrared sensor or beam window of the remote control are blocked or dirty. ▶ Remote control is too close to the Charging station or Robot Cleaning Vacuum. 	<ul style="list-style-type: none"> ▶ Check the power switch on the bottom of the main body. ▶ Re-charge the robot cleaner. ▶ Insert the battery of robot cleaner properly. ▶ Change the battery of the remote control. ▶ Wipe the infrared sensor & beam part of the remote control with a soft cloth.
The robot is not charging.	<ul style="list-style-type: none"> ▶ Charging station or Robot Vacuum Cleaning is not connected properly to the plug. 	<ul style="list-style-type: none"> ▶ Move farther away from the Charging Station and press the button again while pointing at the Robot Vacuum Cleaning.
After cleaning, the robot cleaner is not returning to the charging station.	<ul style="list-style-type: none"> ▶ Home station or Robot Vacuum Cleaning is not connected properly to the plug. ▶ Generator & ejector on the home station and detector of the robot cleaner is dirty. 	<ul style="list-style-type: none"> ▶ Connect the power of the Charging Station properly. ▶ Move the Charging Station. No objects should be placed within 20 inches left/right or 5 feet in front of the Charging Station. This is to enable the robot cleaner to return to the home station automatically after cleaning.

<p>Noise of the robot cleaner is getting worse.</p>	<ul style="list-style-type: none"> ▶ Dust bin is full or filter is dirty. ▶ Main brush is dirty or hairs are accumulating between the main brush and the bearing. 	<ul style="list-style-type: none"> ▶ Empty and clean the dust bin. ▶ See <Product control & maintenance> (page 12) and clean the filter. ▶ See <Product control & maintenance> (page 12) and clean the main brush.
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Display check message



- ※ During operation, if the window icons are blinking, please refer to the Checklist below before proceeding.
- ※ Clean the sensors and emptying the dust bin are required at least once every two weeks. Periodic management will extend the life of the cleaning robot.

Check display	Cause	Solution
	A wheel is lifted, or the floor could not be detected	Move the robot cleaner to flat area in case the wheel is stuck on a threshold.
	Wheel motor overload	Check if material such as hair or lint is on the wheel.
	Side brush overload	Check if material such as hair or lint is on the main brush or side-brush.
	Main brush or suction motor overload	Empty the dust bin and clean the main brush and filter
	Battery exhausted	Please charge