ECOVACS

WINBOT W1S

Instruction Manual

Important Safety Instructions

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE. SAVE THESE INSTRUCTIONS

1. This appliance can be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. The appliance is not to be used if it has been dropped, if there are visible signs of damage or if it is leaking. Keep the appliance out of reach of children when it is energized.
2. Do not use and charge the Appliance in extremely hot or cold environments (below 0℃/32℉ or above 40℃/104℉, above 85% humidity), or it may affect battery life span.
3. The Appliance can be used to clean exterior windows if it is properly tethered to a safe position with the Carabiner, winds are calm, and it is not raining or snowing.
4. Before use, please use the Carabiner to lock the safety tether to a strong indoor railing, and make sure WINBOT is securely attached to it.
5. Do not leave the product unattended when using it. To prevent bodily injury or property damage caused by accidental falling of the product, please make sure there are no people, animals, or valuable, fragile objects under the working area of WINBOT.
6. Do not use this product in whole gale storms and force-10 winds, or in areas where the altitude exceeds 2000 meters (6562 feet).
7. Please ensure the Appliance is plugged in while it is cleaning. The Appliance has a Safety Battery that charges during use. The Safety Battery powers the Appliance if it becomes unplugged or the electricity fails.
8. Do not leave the Appliance unattended when it is plugged in.
9. For household use ONLY (including exterior window). Do not use the Appliance in commercial or industrial environments.
10. Do not use on broken or uneven glass, such as glass with static cling stickers, advertising posters, or raised patterns, so as to prevent

glass breaking or the product falling. Do not use on surfaces with gaps, such as a piece of glass with gaps or holes, or two pieces of adjacent, frameless glass with a gap between them, so as to prevent the product from falling due to poor attachment.

11. Only use accessories recommended or supplied by the manufacturer. Only use the Power Adapter supplied by the manufacturer.
12. Please make sure your power supply voltage matches the power voltage marked on the Power Adapter.
13. Do not use the Appliance on a framed window with a frame smaller than 5mm (0.2 inches).
14. Do not use on glass less than 3mm (0.12 inches) thick or mirrors less than 4mm (0.16 inches) thick.
15. Do not use on glass or mirrors with a handle height of 70~105mm (2.76~ 4.13 inches).
16. Do not use the Appliance on greasy windows.
17. When used in high humidity environment, the cleaning performance will be affected.
18. Store the Appliance away from heat and flammable materials.
19. In rainy weather, do not use the Appliance on the exterior window to avoid the risk of Appliance's damage or falling.
20. Do not use the Appliance if it does not firmly attach to the glass or has visible signs of damage.
21. To reduce the risk of electrical shock, do not put the Appliance in water or other liquid. Do not place or store Appliance where it can fall or be pulled into a tub or sink.
22. Do not touch power plug with wet hands.
23. When charging the Appliance, do not place it on other electrical appliances and keep it away from fire and liquid.
24. Take care not to damage the power cord. Do not pull on or carry the Appliance by the power cord, use the power cord as a handle, close a window on the power cord, or put heavy weights on the power cord. Keep power cord away from hot surfaces.
25. Do not use with a damaged power cord or receptacle. Do not use the Appliance if it is not working properly, has been dropped, damaged, or come in contact with water. It must be repaired by the manufacturer or its service agent in order to avoid a hazard.
26. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.

27. The plug must be removed from the receptacle before cleaning or maintaining the Appliance. Do not unplug the Power Adapter by pulling on the power cord.
28. The Safety Battery must be replaced by the manufacturer or its service agent in order to avoid a hazard.
29. The Safety Battery must be removed and discarded according to local laws and regulations before disposal of the Appliance.
30. The Appliance must be disconnected from the receptacle before removing the battery for disposal of the Appliance.
31. Please dispose of used batteries according to local laws and regulations.
32. Do not incinerate the Appliance even if it is severely damaged. The battery can explode in a fire.
33. The Appliance must be used in accordance with the directions in this Instruction Manual. The company cannot be held liable or responsible for any damages or injuries caused by improper use.
34. **WARNING:** For the purposes of recharging the battery, only use the detachable supply unit BLJ96W240400P-S provided with this Appliance.
35. The robot contains batteries that are only replaceable by skilled persons.
36. The plug and the Power Adapter must be used indoor.

To satisfy RF exposure requirements, a separation distance of 20 cm or more should be maintained between this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

	**Class II**
	**Short-circuit-proof safety isolating transformer**
	**Switch mode power supply**
	**For indoor use only**
	Direct current
	**Alternating current**

For EU Countries

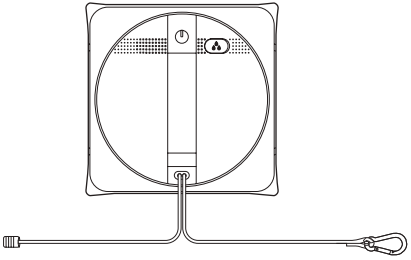
For EU Declaration of Conformity information, visit https://www.ecovacs.com/global/compliance



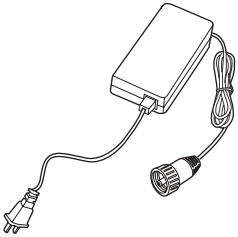
Correct Disposal of this Product

This marking indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To recycle your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can safely recycle this product.

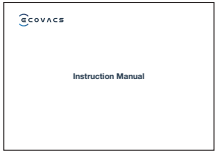
Package Contents



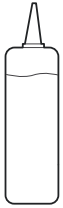
WINBOT + Safety Rope



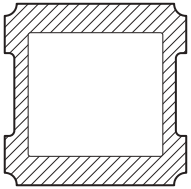
Power Adapter



Instruction Manual



ECOVACS WINBOT Cleaning Solution

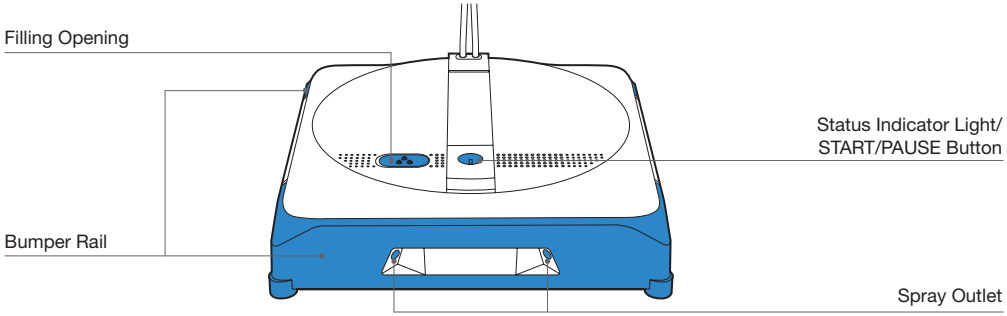


Mopping Pad

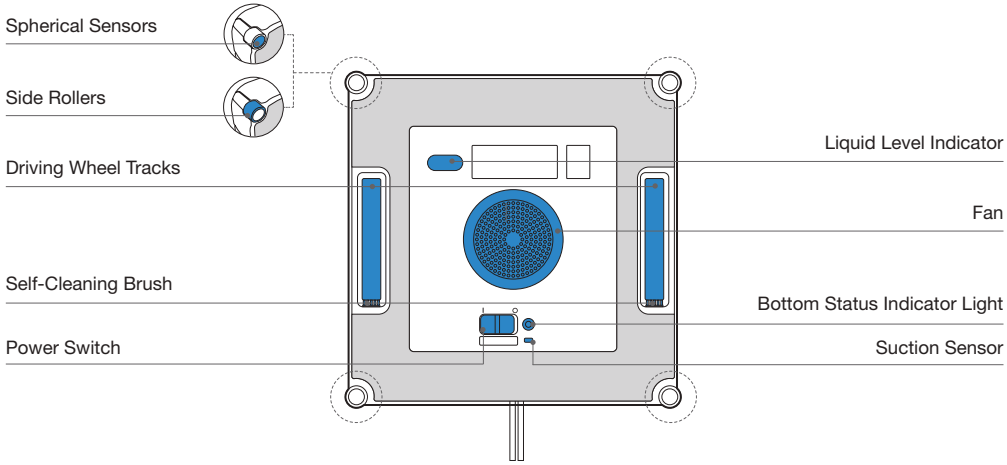
Note: Figures and illustrations are for reference only and may differ from actual product appearance.
Product design and specifications are subject to change without notice.

Product Diagram

WINBOT



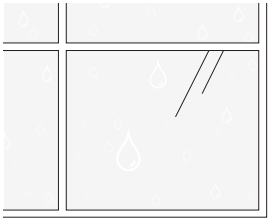
Bottom View



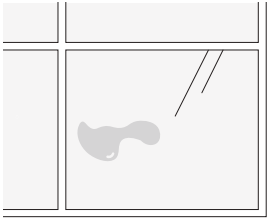
Notes Before Cleaning

1 Do not use WINBOT on windows with condensation or oil stains or in extremely cold or hot environments.

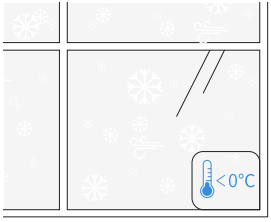
WINBOT may have difficulty moving in the following conditions.



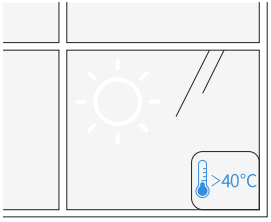
Condensation



Oil stains



below 0°C

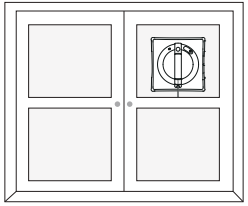


above 40°C

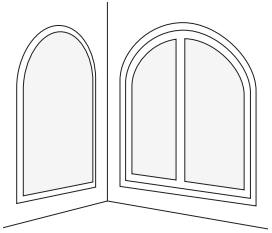
WINBOT delivers optimal performance on dry surfaces and in temperatures above 0°C .

2 Do not use WINBOT on windows that are too small or have irregular shapes.

WINBOT cannot move around in the following conditions.



Small Glass

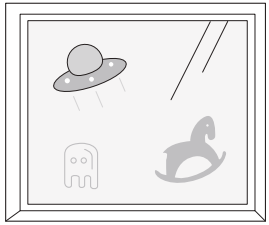


Irregular Shapes

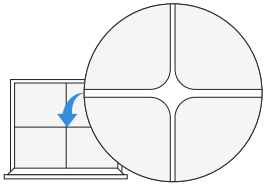
WINBOT delivers optimal performance on square and large windows.

3 Do not use WINBOT on uneven windows.

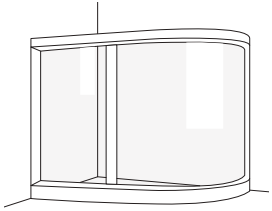
WINBOT may experience insufficient air pressure in the following conditions.



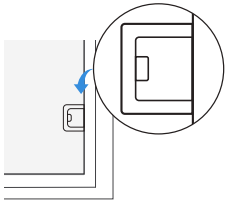
Electrostatic Window Decals, Stickers, etc.



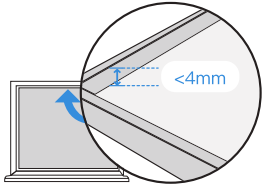
Cracks



Arched Windows



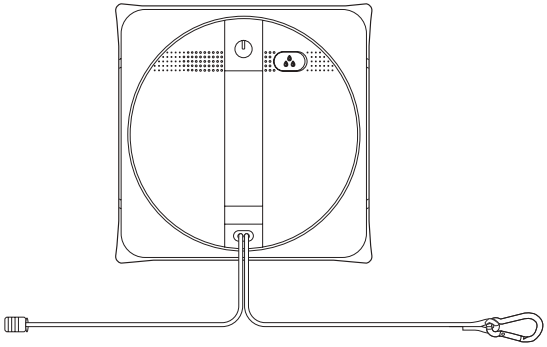
The hight of obstacles is less than 4 mm.



The hight of frames is less than 4 mm.

WINBOT delivers optimal performance on a smooth window surface.

4 Make sure Safety Rope is connected before use. Safety Rope is assembled by default. Do not disassemble it at will.



Note: Do not use WINBOT on a framed window with a frame narrower than 8 mm (0.3”).

Network Setup

To enjoy all available features, it is recommended to control your WINBOT via the ECOVACS HOME App.

a. Three Cleaning Modes

Fast Cleaning Mode: Ensure efficient window cleaning
Deep Cleaning Mode: Realize all-round cleaning
Spot Cleaning Mode: Say goodbye to stubborn stains

b. Manual Remote Control, Return to Corner:

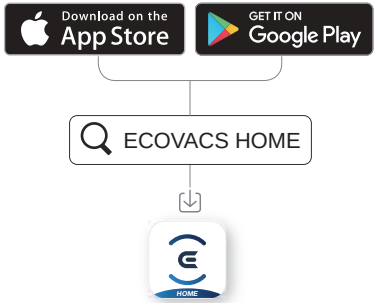
Switch between interior and exterior window.
Manual remote control, to clean stubborn stains.
Return to Corner, to let WINBOT return to the specified corner immediately.

c. Auto Water Spray and Manual Water Spray

Auto Water Spray defaulted leaves your windows clean.
WINBOT also supports Manual Water Spray.

d. Smart Reminder of Accessories Replacement

Precise timing reminder for a better cleaning experience.

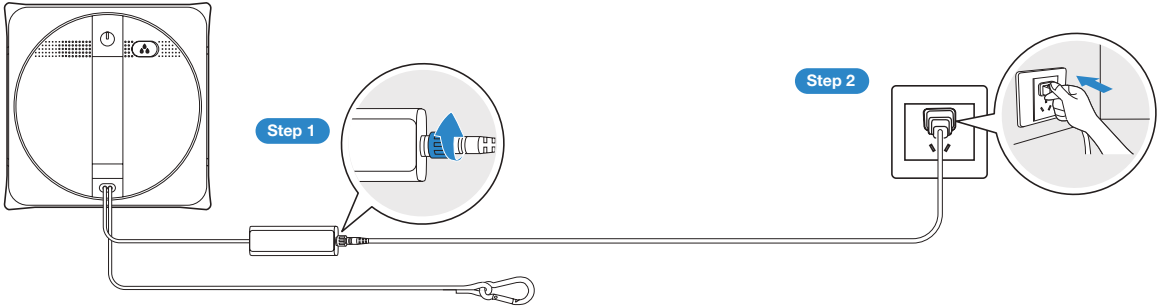


Quick Start

1 Connect WINBOT Power Cord, Power Adapter and Plug

Please ensure the battery is fully charged before using. Charging time will be approx. 2.5 hours.

*Do not cut the power off when WINBOT is running, otherwise it may lead to the risk of falling.

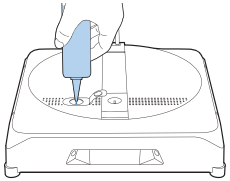


Connect correctly in the order shown above. Improper connection may cause charging abnormalities or damage to the battery.

2 Preparation before Use

Fill up the Water Tank

It is recommended to use with ECOVACS WINBOT Cleaning Solution. The maximum volume of the Reservoir is about 60ml.



Maximum 60ml

Note: Do not add purified water and filtered water.
Do not add too much cleaning solution to overflow the Reservoir.
Using other cleaners could have an adverse effect on cleaning performance.
If the cleaning solution is used up, you can temporarily use tap water instead. Using the ECOVACS WINBOT Cleaning Solution can have a better cleaning performance.

Install Mopping Pad

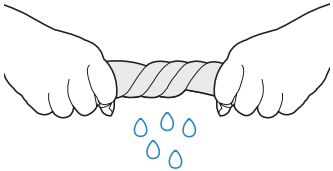
① Wet the Mopping Pad

Before using, wet the Mopping Pad manually.



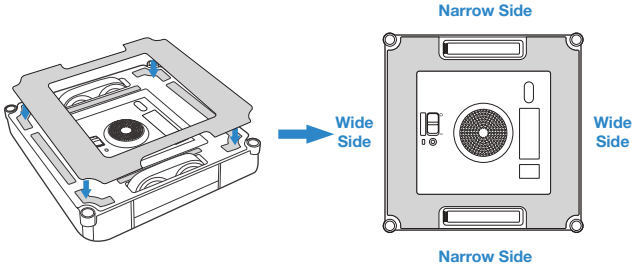
② Twist the Mopping Pad

Twist the Mopping Pad to wring water out. To ensure cleaning performance, wring it out as much as you can.



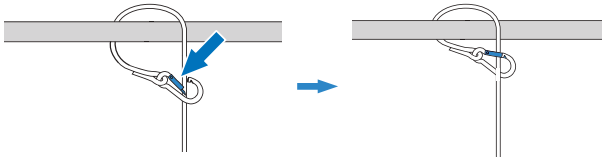
③ Stick the Mopping Pad

Stick the Mopping Pad onto the Velcro at the bottom of WINBOT, and press it with your hands to help the Mopping Pad stick firmly.



Tie the Safety Rope

Properly tie the safety rope to a stable object that cannot be easily moved (e.g. table leg, chair leg, bed leg, sofa leg, curtain rod, stair handrail, etc.), and lock the carabiner as shown below.
Hang the rope and wrap it around the support.
Open the carabiner, then attach it to the rope on the other side.

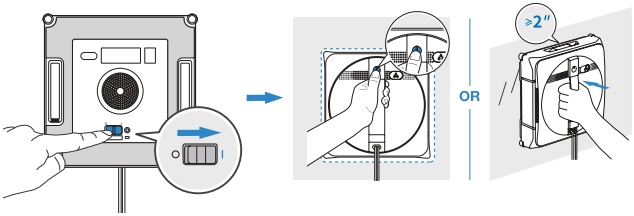


Note: Please make sure to use under supervision.
To ensure safety, please make sure to secure the carabiner before use.
It is recommended to fasten the safety rope with the Carabiner on a firm and safe metal railing.

3 Start

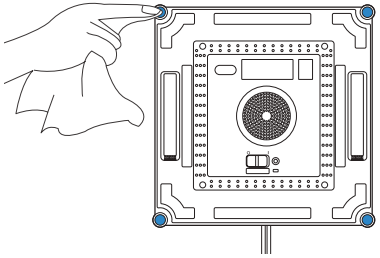
① Turn the Power Switch to "I ".
② Attach to the Window.
Method 1: Shortly press on WINBOT, then attach it to the glass.
Method 2: Evenly press WINBOT onto the glass for 2s and more to make it firmly attached until you hear a voice prompt.
WINBOT will start cleaning after it has attached to the window successfully.

* Do not stick the WINBOT too close to the edge when cleaning the frameless glass. It is recommended to be more than 10cm away from the edge.
* WINBOT can only clean flat surfaces. Please make sure that the glass thickness is not less than 3mm (0.12").
* Do not put the fan close to hair and other small objects after power on, so as not to block the fan.
* Before cleaning, please observe the area to attach WINBOT for any small particles. If there are any, please remove them or switch to a particle-free area to avoid scratching the glass.



4 Maintenance during Cleaning

For heavily stained glass, please wash or replace the Mopping Pad several times and clean the four Spherical Sensors in time.

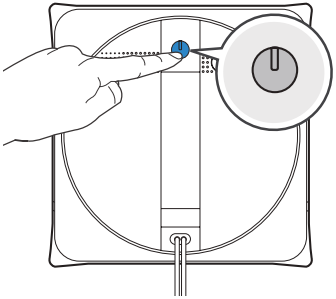


* Clean the Wiping Pad in time and make sure that any small particles on it are completely removed to avoid scratching the glass.

5 Finish

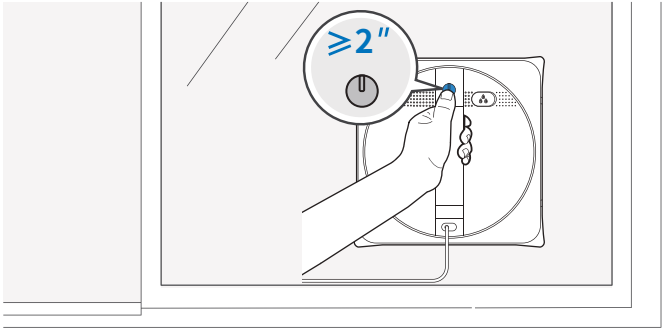
Pause

During cleaning, press on WINBOT or pause it via App.



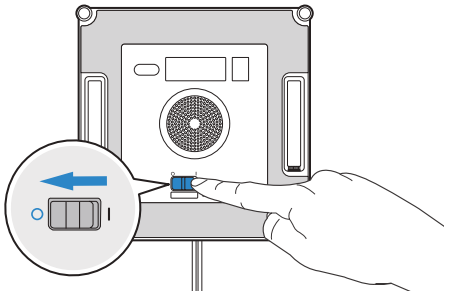
Remove WINBOT

When cleaning is complete, WINBOT will return to the starting position and beep. Press and hold ⏻ for 2 seconds, and remove it after the fan stops working.

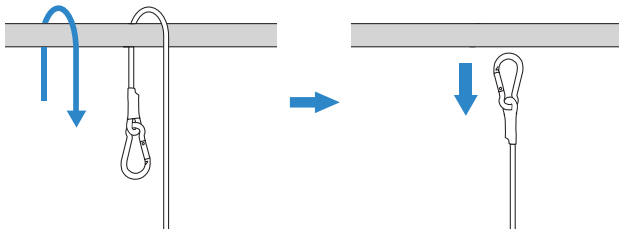


* If the vacuum glass, which WINBOT is working on, is leaking, remove WINBOT immediately after cleaning is completed.

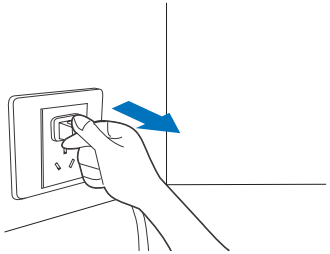
Power Off



Unfasten Safety Rope



Unplug WINBOT

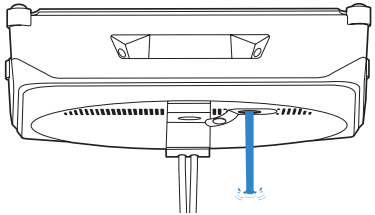


Maintenance

Water Tank

Empty the Reservoir

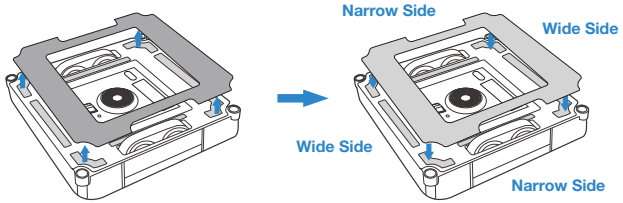
Pour out the cleaning solution from the Water Tank.



Mopping Pad

Replace the Mopping Pad

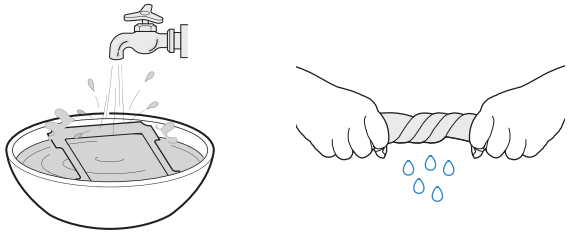
Remove the dirty Mopping Pad from WINBOT and place a clean new one on it. Then, press the Mopping Pad with your hands to help it stick firmly. Please make sure the Mopping Pad is correctly attached, and do not cover the Spherical Sensors.



* Clean the Velcro at the bottom of WINBOT with a clean brush if it is dirty. Do not wash with water to avoid damage caused by water.

Wash the Mopping Pad

Remove the Mopping Pad. Wash it with tap water, and wring it dry before use.

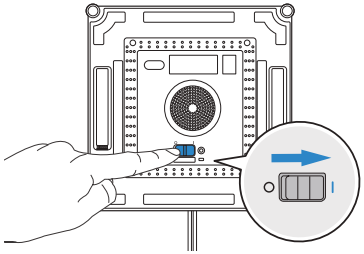


Note: Wash with tap water.
Washing the Mopping Pad regularly can extend its service life.
If the Mopping Pad becomes worn or no longer fits exactly within the fastener area, replace it with a new one to achieve optimal cleaning performance.
Explore more accessories at ECOVACS HOME App or at https://www.ecovacs.com/global.

Driving Wheel Tracks

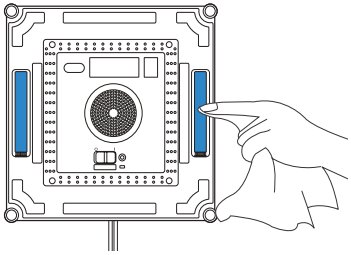
1

Before maintenance, please make sure that the power switch is set to "I" and the fan stops working.



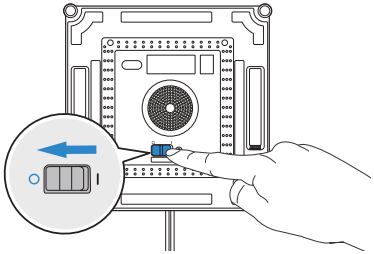
2

Inspect the Driving Wheel Tracks in ECOVACS HOME App. Stop the Driving Wheel Tracks if you see dirt on them.

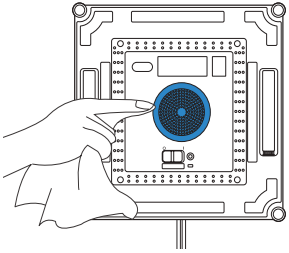


3

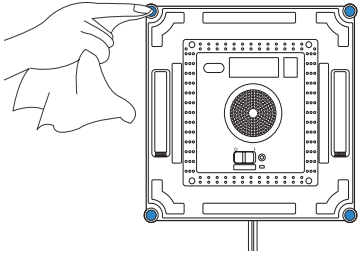
After maintenance, you can install the Mopping Pad to continue cleaning task. Or turn the power switch to "O" to end task.



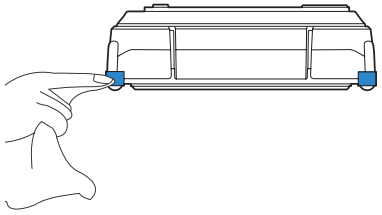
Fan



Spherical Sensors



Side Rollers



* After WINBOT reports low battery, please fully charge it before usage and storage to avoid reducing the service life of battery.
* If WINBOT will not be used for a long time, please fully charge it and turn it off before storage. Recharge it every six months to prevent the battery from being over-discharged.

Status Indicator Light

Light Effect	Status
Status Indicator glows a continuous BLUE.	WINBOT is fully charged.
	WINBOT has successfully adhered itself to the glass and is ready to clean.
	WINBOT is cleaning.
	WINBOT is paused.
	The network setup is complete.
Status Indicator flashes BLUE slowly.	WINBOT is paused and charging.
Status Indicator flashes BLUE.	WINBOT is spraying.
Status Indicator stops glowing BLUE.	WINBOT is in sleep mode. Press ⏻ to wake it up.
	WINBOT is powered OFF.
Status Indicator glows a continuous RED.	WINBOT has a low battery. Please remove it from the window.
Status Indicator flashes RED.	WINBOT has a problem. Please refer to section 5 Troubleshooting for details.

Troubleshooting

NO.	Malfunction	Possible Causes	Solutions
1	WINBOT moves in an irregular pattern during cleaning.	The Mopping Pad is too wet.	Replace the Mopping Pad as described in Maintenance. Use the ECOVACS WINBOT Cleaning Solution as described in manual and restart the cleaning cycle.
		The Driving Wheel Tracks are dirty.	Clean the Driving Wheel Tracks as described in Maintenance.
2	WINBOT does not move.	The Mopping Pad is attached improperly.	Please remove the Mopping Pad and reattach.
		There are gaps or cracks on the surface to be cleaned.	Hold the Driving Wheel Tracks or the Power Cord. Meanwhile, press Direction Buttons in ECOVACS HOME App to let the WINBOT leave the gap or barrier.
		The Mopping Pad Plate is blocked by small obstacles on the glass.	
3	WINBOT cannot move or moves in circles.	The Driving Wheel Tracks are stuck.	Check if there is any dust or debris on the Driving Wheel Tracks. If so, please clean the Driving Wheel Tracks as described in Maintenance. Start WINBOT again. If problem persists, please contact Customer Service.
4	Voice prompts insufficient water in the Reservoir.	No ECOVACS WINBOT cleaning solution in the Reservoir.	Please add ECOVACS WINBOT cleaning solution. Do not add purified water and filtered water.
5	WINBOT stays still or moves in an irregular pattern during cleaning.	The bumper rail is stuck.	Remove WINBOT from the window. Check if the bumper rail is stuck. Clean the bumper rail and restart WINBOT. If problem persists, please contact Customer Service.
		The bumper rail is damaged.	
		Spherical Sensors signal abnormity.	A. Remove the Mopping Pad and re-attach it making sure it will not cover or affect the Spherical Sensors. B. Clean the Spherical Sensors as described in Maintenance. C. If the problem persists, please contact Customer Service.
		Fan malfunction.	A. Clean the Fan as described in Maintenance. B. If the problem persists, please contact Customer Service.

NO.	Malfunction	Possible Causes	Solutions
6	WINBOT stops moving after adhering to the glass.	WINBOT is too close to the edge of the glass or obstacles.	Use the Direction Control buttons in the App to move WINBOT away from the problem area and at least 10cm/4” from window corners and obstacles. Restart WINBOT. Alternatively, remove WINBOT from the window and put it at least 10cm/4” from window corners and obstacles. Restart WINBOT.
7	WINBOT is stuck.	It is stuck by obstacles.	Fix the Safety Rope firmly. Hold WINBOT power cord and meanwhile, use ECOVACS HOME App to move WINBOT away from the stuck area. If the problem persists, please contact Customer Service.

App Connection

Before connection, make sure WINBOT and the mobile phone meet the following requirements:

1. The Bluetooth of the mobile phone is turned on.
2. The WINBOT power switch has been turned on and the indicator light has been lit.
3. Please pair WINBOT in ECOVACS HOME App instead of the phone setting.
4. Co-frequency interference might occur between Bluetooth and Wi-Fi. It is recommended to keep WINBOT close to the mobile phone and distant from the Wi-Fi router during pairing.
5. If the connection failed, please try to disconnect other Bluetooth devices, make sure WINBOT is not connected to other mobile phones, and try again.
6. Bluetooth may be disconnected if WINBOT is too distant from the phone. Try to reconnect at a short distance.
7. For using WINBOT, you need to allow ECOVACS HOME App to obtain access to the location, Bluetooth, and mobile phone storage.
   If the problems persist after trying the above methods, please contact customer service.

Technical Specifications

WINBOT Model	**WG819-14**		
Rated Input	24V ⎓ 4A	Rated Power	96W
Frequency	2402-2480MHz		
Power Adapter: BLJ96W240400P-S			
Input: 230-240V ~ 50Hz 2A		Output: 24V ⎓ 4A 96W	

Output power of the wireless module is less than 100mW.
Note: Technical and design specifications may be changed for continued product improvement.

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