



WINBOT Lite

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°C/32°F or above 40°C/104°F, 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 Appliance unattended when using it. To prevent bodily injury or property damage caused by accidental falling of the Appliance, please make sure there are no people, animals, or valuable, fragile objects under the working area of WINBOT.
6. Do not use the Appliance 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 Appliance's 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 Appliance 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 glass with a frame smaller than 5 mm (0.2 in).
14. Do not use on glass less than 3 mm (0.12 in) thick or mirrors less than 4 mm (0.16 in) thick.
15. Do not use on glass or mirrors with a handle height of 70~105 mm (2.76~ 4.13 in).
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 BLJ66WB240275P-D 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.
 37. If the insulated glass, which WINBOT is working on, is leaking, remove WINBOT immediately after cleaning is completed.
 38. 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.
 39. Clean the Wiping pad in time and make sure that any small particles on it are completely removed to avoid scratching the glass.
 40. The appliance is only to be used with the unit provided.
 41. Keep the appliance out of reach of children when it is energized or cooling down.
 42. The appliance has to be unplugged after use and before carrying out user maintenance on the appliance.
- 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

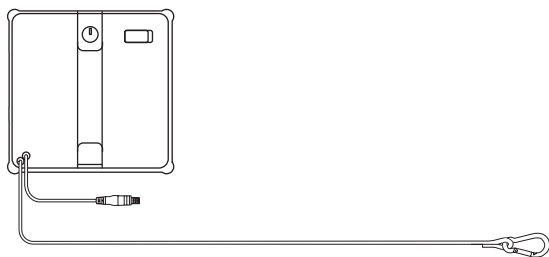


Correct Disposal of this Product

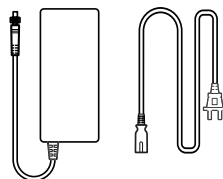
This marking indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To recycle your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

1. Product Contents

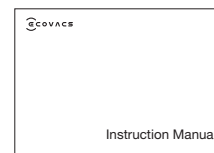
1.1 Package Contents



WINBOT + Safety Rope



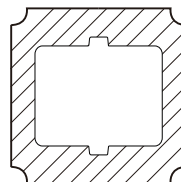
Power Adapter + Power Cord



Instruction Manual



ECOVACS WINBOT Cleaning Solution

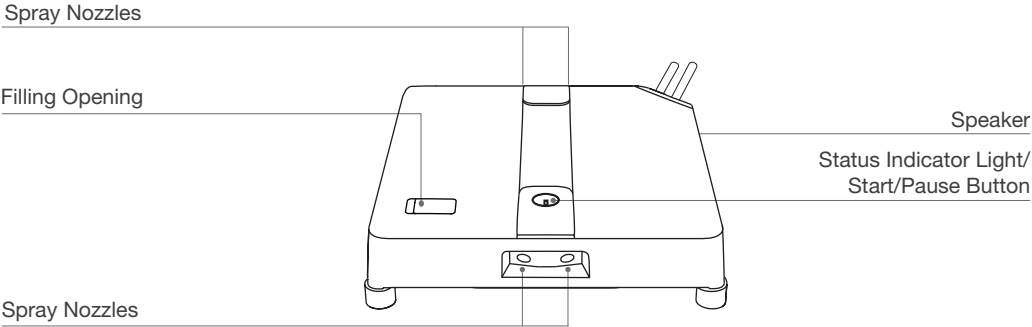


Wiping pad

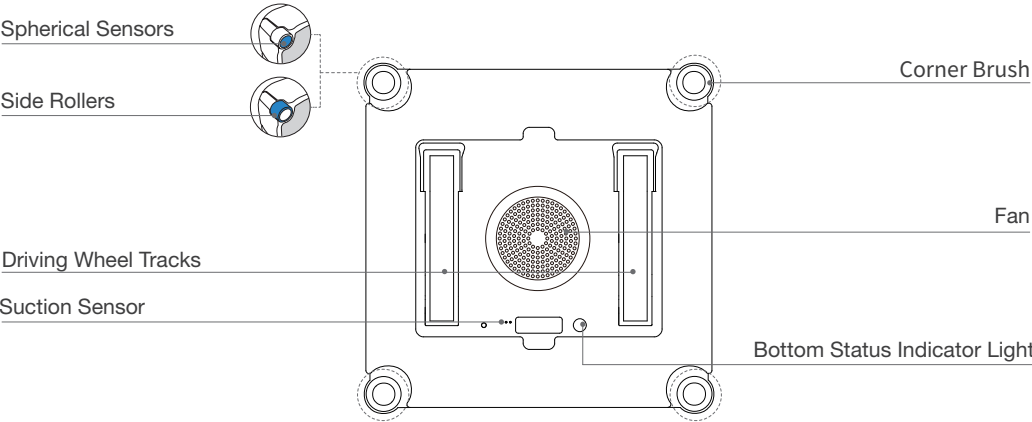
* Figures and illustrations are for reference only and may differ from actual product appearance.

1.2 Product Diagram

Front View



Bottom View



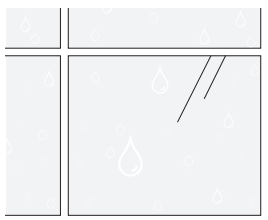
2. Quick Start

2.1 Notes Before Cleaning

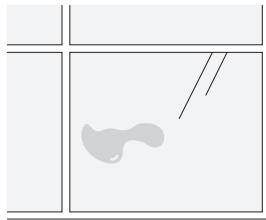
The following situations are not recommended for using WINBOT:

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

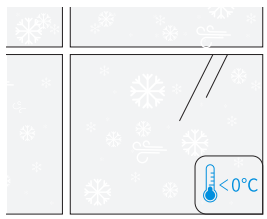
WINBOT may have difficulty moving in the following conditions.



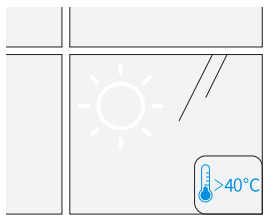
Condensation



Oil stains



Below 0°C

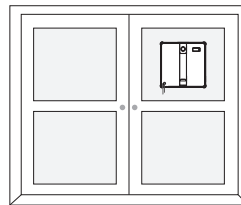


Above 40°C

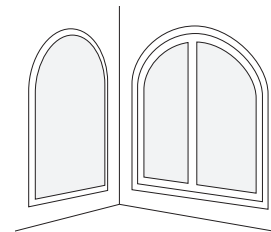
 WINBOT performs better on dry surfaces and in temperatures above 0°C.

- 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

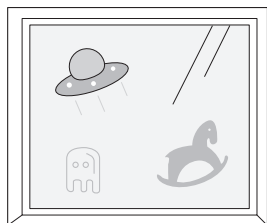


Irregular Shapes

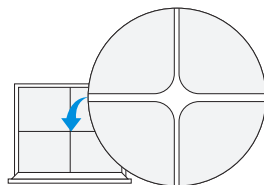
 WINBOT performs better on square and large windows.

3 Do not use WINBOT on uneven windows.

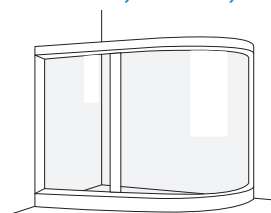
WINBOT may experience insufficient air pressure in the following conditions.



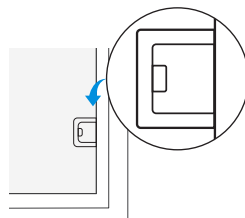
Electrostatic Window Decals, Stickers, etc.



Cracks



Curved Glass



Obstacle Height < 2 mm



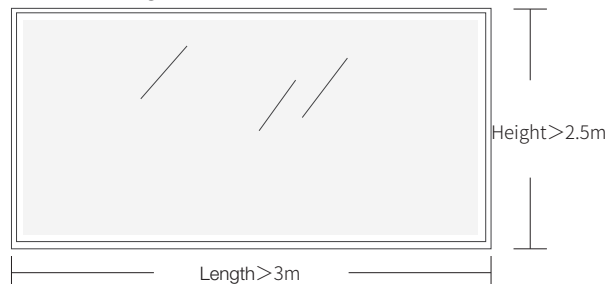
Frame Height < 1 mm

Frame Height < 1 mm

 WINBOT performs better on a smooth and flat surface to ensure stable suction and smooth movement.

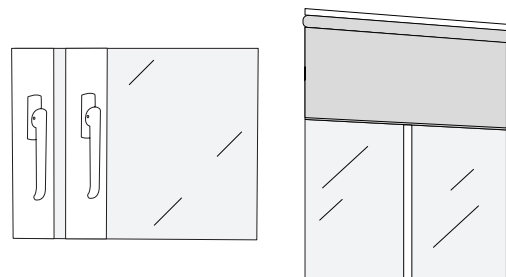
4 Do not use WINBOT on windows that are too large.

WINBOT may fail to complete the task due to the length limitation of the connecting cord.



5 Do not use WINBOT near narrow gaps close to its height.

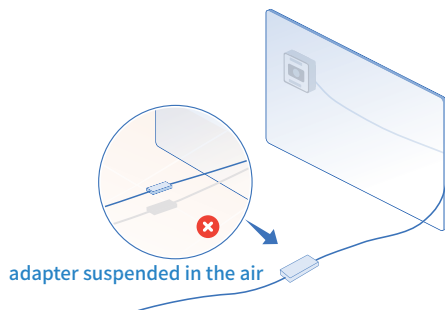
WINBOT may get stuck when nearby narrow spaces, openings or gaps between window handles/door handles/ curtain boxes/ cabinets and surfaces such as walls/windows, are close to its height.



 Try placing WINBOT between the gap to confirm safe passage; if it's stuck, refrain from using the robot there to prevent damage to either itself or surrounding furniture.

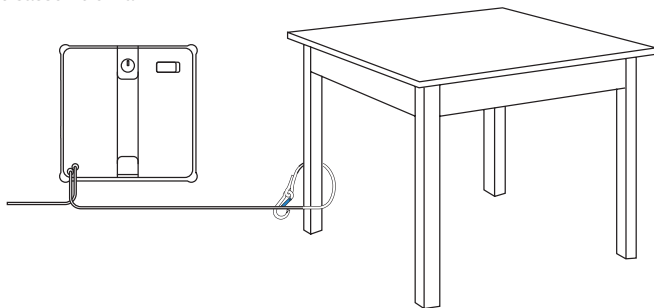
6 Do not leave the adapter suspended in the air when cleaning large glass windows.

WINBOT may fall due to prolonged suspension. Therefore, always place the adapter on the ground.

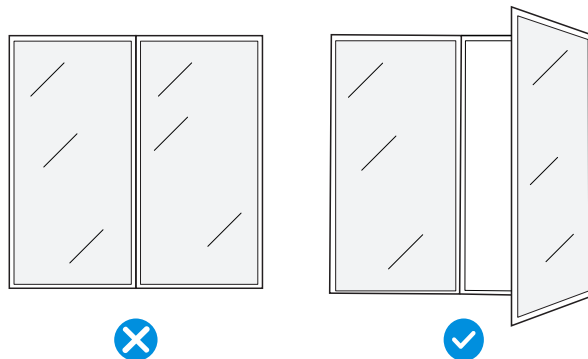


Before use, ensure WINBOT's carabiner is properly installed to prevent any accidents.

*The safety rope and its carabiner are pre-installed at the factory. Do not disassemble it at will.



To clean glass panel doors, open the door before attaching WINBOT to avoid WINBOT falling due to narrow door gaps.



2.2 Preparation before Use

1 Install Wiping Pad

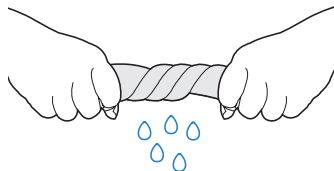
1. Wet the wiping pad

Before using, wet the wiping pad.



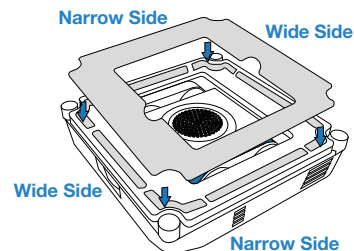
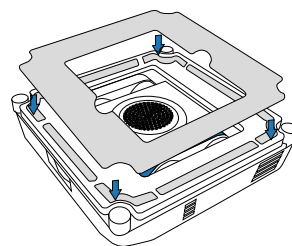
2. Wring out the wiping pad

To protect WINBOT, wring the pad out as much as possible until it's damp but not dripping.



3. Stick the wiping pad

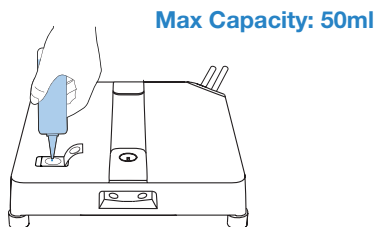
Stick the wiping pad onto the velcro on the bottom of WINBOT, ensuring the narrow and wide sides are aligned correctly. Then press firmly to secure the pad in place.



2 Add Cleaning Solution

Add the ECOVACS WINBOT cleaning solution to the water tank. The maximum capacity of the water tank is about 50 ml. In Fast Cleaning, a full tank can spray approximately 30 m².

- * Do not add excessive cleaning solution to overflow the water tank.
- * Do not use purified water or filtered water.
- * It is recommended that the ECOVACS WINBOT cleaning solution be used for optimal cleaning results. Using any cleaning solutions other than the ECOVACS WINBOT cleaning solution may reduce cleaning performance or damage the product.
- * If the ECOVACS WINBOT cleaning solution runs out, tap water can be used temporarily. However, the ECOVACS WINBOT cleaning solution provides better cleaning results.



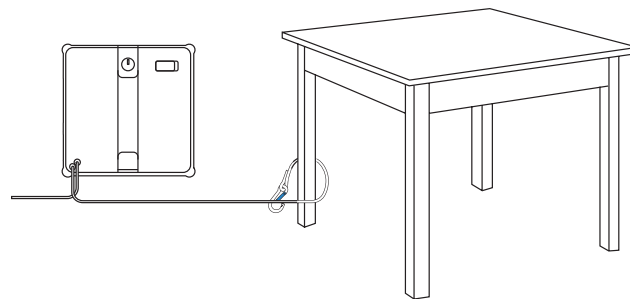
Note:

1. Do not put your fingers into the filling opening.
2. Wipe the water droplets on the body and the four spray outlets clean, so as not to affect the normal operation.

3 Secure Safety Rope and its Carabiner

Ensure the station's carabiner is securely attached to a stable, immovable object such as a table leg, chair leg, bed leg, sofa leg, curtain rod, or staircase handrail. Lock the carabiner as shown below to prevent any accidents.

Note: Keep someone nearby to monitor WINBOT. Do not allow people or pets to stand directly below WINBOT, and make sure no valuables or fragile items are below the cleaning area.



To ensure safety, please make sure to secure the carabiner before use.

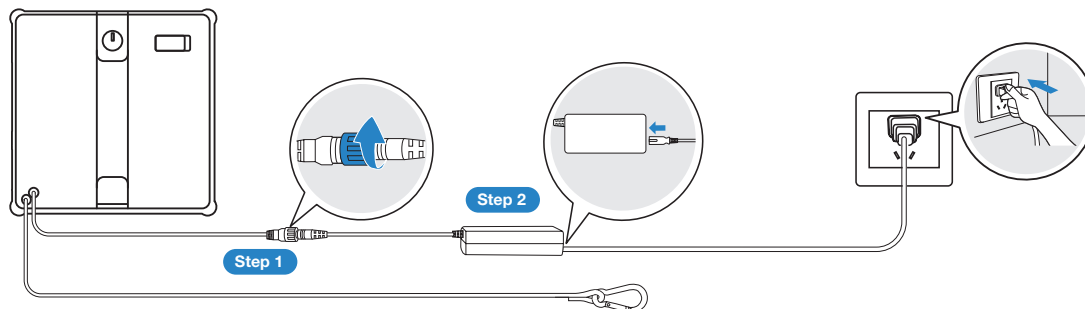
- * It is recommended to fasten the safety rope with the carabiner on a firm and safe metal railing.

4 Connect WINBOT's Power Cord, Power Adapter, and Plug

Please ensure the battery is fully charged before using. Charging time will be approximately 3 hours.

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

* It is particularly emphasized that the aviation plug needs to be firmly connected.

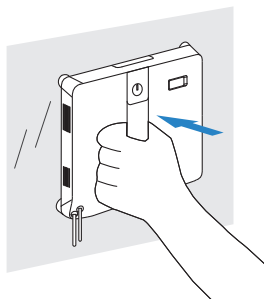
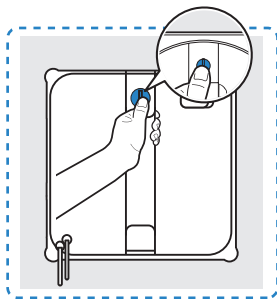


Connect correctly in the order shown above. Improper connection may cause charging abnormalities or damage to the battery.

2.3 Getting Started

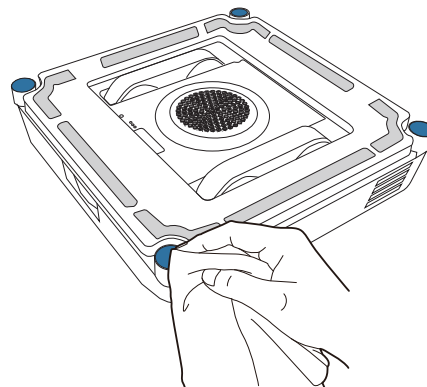
1 Start Cleaning

1. Before cleaning, ensure a clean area larger than WINBOT's size, then attach to windows.
 2. Connect the power supply and long press the WINBOT start button for 2 seconds.
 3. After hearing the fan start, place the bottom of the WINBOT (the side with the wiping pad) on the glass. WINBOT will adhere to the window automatically and start cleaning.
- * 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.
 - * Do not put the fan close to hair and other small objects after power on, so as not to block the fan.
 - * Please dry the water droplets at the spray outlet before cleaning.
 - * Do not stand below or near the WINBOT while it is cleaning.



2 Maintenance during Cleaning

For heavily stained glass, wash or replace the wiping pad and corner brushes as needed, then wipe it repeatedly. Meanwhile, ensure the 4 spherical sensors are cleaned regularly for optimal cleaning performance.

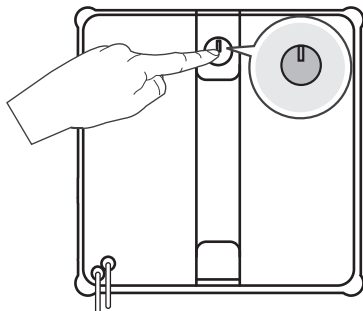


* Clean the wiping pad and corner brushes in time and make sure that any small particles on them are completely removed to avoid scratching the glass.

2.4 Finish

Pause

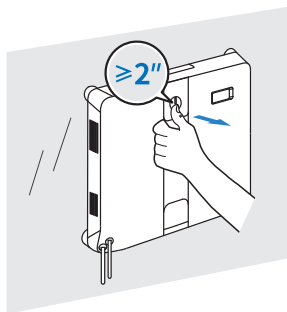
During cleaning, press  on WINBOT or pause it via App.



Remove WINBOT

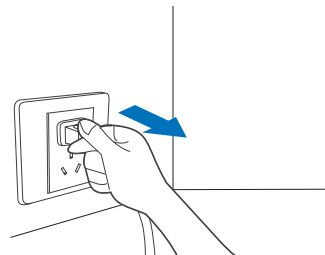
When cleaning is complete, WINBOT will return to the starting position and beep. Please hold the handle tightly. **Long press**  **for 2 seconds**, and remove it after the fan stops working.

* Please pour out the cleaning solution after cleaning.

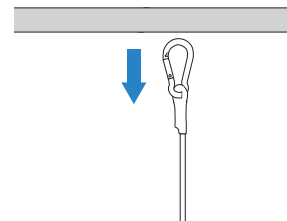
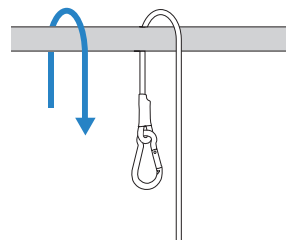


Power Off

Turn off the power to shut down.



Unfasten Safety Rope



2.5 Advanced Function

Download the ECOVACS HOME App to unlock more WINBOT features.

a. Multiple Cleaning Modes

Thorough Clean: Zigzag/N-shaped cleaning + clockwise cleaning along all four edges.

Fast Clean: Zigzag/N-shaped cleaning.

Spot Clean: Repeated wiping to remove localized dust.

Deep Clean: Two rounds of zigzag/N-shaped cleaning.

Edge Clean: Clockwise cleaning along all four edges.

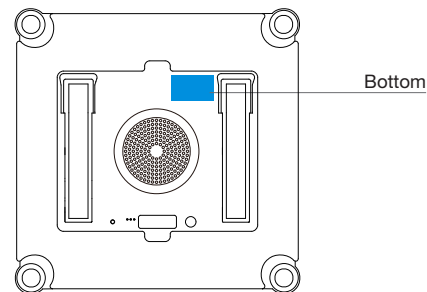
b. Troubleshooting

If WINBOT triggers an alarm, do not panic. Visit the App for detailed troubleshooting guidance.

c. Remote Control

Use the App to control WINBOT. Features include: interior and exterior window views, Spot Cleaning, and manual water spraying.

Option 1: Scan the QR Code on WINBOT to download the App.



Option 2: Scan the QR code or search and download the ECOVACS HOME App in the App Store.



Note: When installation is completed, please complete registration, login, and network connection as guided in the App.

3.Component Maintenance

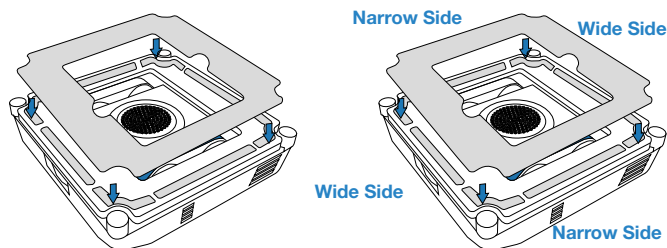
Wiping pad

a. Replace Wiping pad

Remove the dirty wiping pad and attach a new one flatly within the wiping pad holder at the bottom of WINBOT.

Ensure that the groove of the wiping pad corresponds to the blue mark at the bottom of WINBOT. Press and smooth the pad down to ensure a secure fit. Make sure the wide and narrow sides of the wiping pad align with those of the holder.

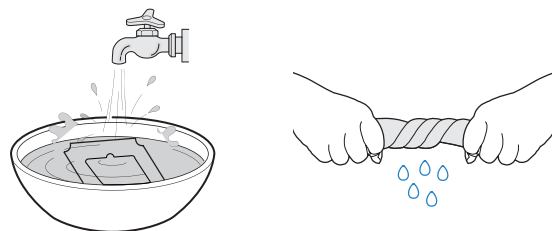
Be careful not to stick the wiping pad outside the holder to avoid affecting WINBOT's operation.



***If the velcro on the wiping pad holder is dusty, use a cleaning brush to remove the dust. Do not wash with water to prevent water from entering WINBOT's bottom, which may cause damage.**

b. Wash Wiping pad

Remove the wiping pad. Wash it with tap water, and wring it thoroughly until the pad is not dripping before use.

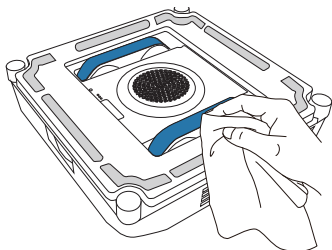


* Regularly clean the wiping pad to extend its service life. If the wiping pad becomes worn or no longer adheres securely to the velcro, replace it with a new one to achieve optimal cleaning performance.

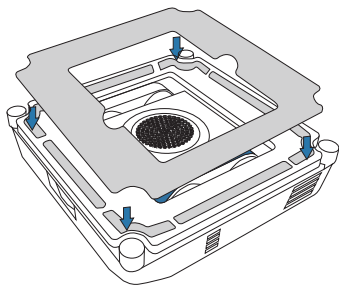
* Explore more accessories at the ECOVACS HOME App or at <https://www.ecovacs.com/global>.

Driving Wheel Tracks

Before cleaning, ensure the fan is not running. Use the ECOVACS HOME App to remotely control WINBOT and check the driving wheel tracks. Pause the driving wheel tracks' operation if dirt is found. Then wipe the tracks clean with a clean cloth.

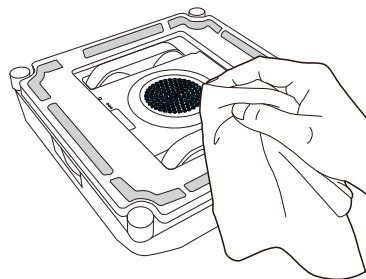


After cleaning the driving wheel tracks, install the wiping pad and resume cleaning tasks.

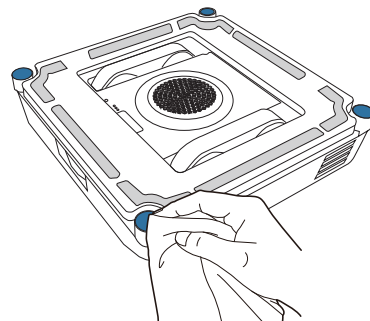


Bottom Component

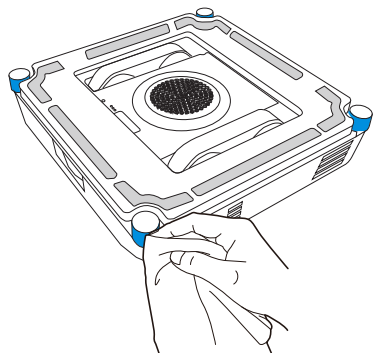
Fan: Wipe clean with a dry cloth to prevent damage to WINBOT's suction force.



Spherical Sensors: Wipe clean with a dry cloth to maintain their sensitivity.



Corner Brush and Side Roller: After cleaning is complete, clean the corner brush and side roller with a damp cloth to ensure optimal cleaning performance.



- * After WINBOT issues a low battery warning, ensure WINBOT is fully charged before using or storing it to avoid reducing battery service life.
- * If WINBOT is not used for an extended period, fully charge it, turn it off, and store it properly. To prevent battery damage and charging failure due to over-discharge, recharge it at least once every six months.

4. Status Indicator Light

Indicator	Light Effect	Light Effect Interpretation
START button/ Bottom Status Indicator Light	Solid Blue	WINBOT in standby or operation.
	Flashing Red	Malfunction. WINBOT is unable to function properly.

5. Troubleshooting

5.1 Issue Resolution

NO.	Malfunction	Possible Causes	Solutions
1	WINBOT slips, such as sliding sideways or body shaking.	The wiping pad is too wet.	Refer to [Component Maintenance] in this manual to replace the wiping pad.
		WINBOT wipes non-recommended stains, such as oil stains.	Refer to [Component Maintenance] in this manual to clean the driving wheel tracks.
2	WINBOT voice prompts "Insufficient air pressure".	The wiping pad is not attached properly.	Remove the wiping pad and reattach. Make sure the wide and narrow sides of the wiping pad align with those of the holder.
		There are gaps or cracks on the window.	Do not use WINBOT on the surface with gaps.
		There are low obstacles on the window surface.	Manually cover the obstacles before using WINBOT.
3	WINBOT voice prompts "Stuck".	The Driving Wheel Tracks are stuck.	Check if there is any dust or debris on the driving wheel tracks. If so, clean them with tools. Then restart WINBOT for auto cleaning. If the problem persists, please contact customer service.
		There are low obstacles on the window surface.	WINBOT cannot detect obstacles or frames with a height lower than 2 mm. In this case, please go to the App and follow the instructions to help WINBOT out.
4	WINBOT does not spray water.	There is no cleaning solution in the water tank.	Please add the ECOVACS WINBOT cleaning solution in time.
		The auto-spraying function is turned off in the App.	Please go to the App and turn on the auto-spraying function.
		WINBOT is cleaning at a low water level.	If the auto-spraying function is on in the App and there is cleaning solution in the water tank, go to the App and follow the auto-spraying precautions to solve the problem. If the problem persists, please contact customer service.

NO.	Malfunction	Possible Causes	Solutions
5	WINBOT voice prompts "WINBOT encounters an obstacle".	The internal components are abnormal.	Firmly hold the compound cable and do not stand directly below WINBOT to prevent being injured by the falling WINBOT. Slowly drag WINBOT until it can be reached. Press and hold the START button for 2 seconds, and then remove WINBOT. Turn off WINBOT, disconnect the power, and then restart it. If the issue persists after restarting, please contact customer service.
6	WINBOT has not returned to the origin and cannot be removed.	There is an error in the algorithm.	Affected by the calculation accuracy, there may be a slight error. The normal error is less than 21cm. If the error of WINBOT returning to the origin is too large and it is inconvenient to retrieve WINBOT, please go to the App and remote control WINBOT to return to a position that is easy to remove.
		The remote control function was used after WINBOT was adhered, so WINBOT does not know the origin position.	Go to the App and use remote control to help WINBOT return to a position that is easy to remove.
7	WINBOT voice prompts "Please avoid the window corners."	When cleaning frameless glass, the adhering position of WINBOT is too close to the window frame.	Hold WINBOT's handle, press and hold WINBOT's START button for 2 seconds, and then remove and reattach WINBOT. It is recommended that the adhering position be more than 10 cm away from the window corners.

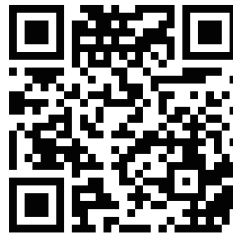
6. Technical Specifications

WINBOT Model	WG853-15	Power Adapter Model	BLJ66WB240275P-D
Rated Input	24V === 2.75A	Input:	100-240V~ 50-60Hz 2.0A
Rated Power	66W	Output:	24V === 2.75A
WINBOT dimensions (L × W × H mm)	215*215*55		
Off/Standby Mode Power	Less than 0.50W		
Frequency Bands	2400-2483.5 MHz		

Output power of the wireless module is less than 100 mW.

Note: Technical and design specifications may be changed for continues product improvement.

We are here to SUPPORT you.
Please reach out for any
questions or concerns with your
product/s!



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