



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°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 GM95-240375-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 vacuum 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.

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>

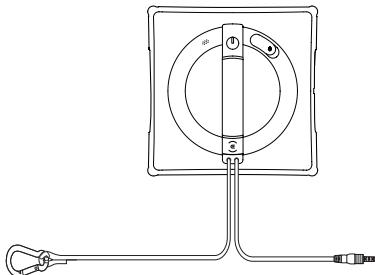


Correct Disposal of this Product

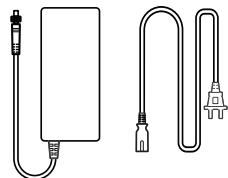
This marking indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To recycle your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

1. Product Overview

1.1 Package Contents



WINBOT (including the safety rope and its carabiner)



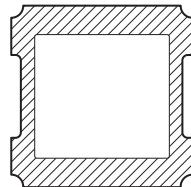
Power Adapter



Instruction Manual



ECOVACS WINBOT Cleaning Solution

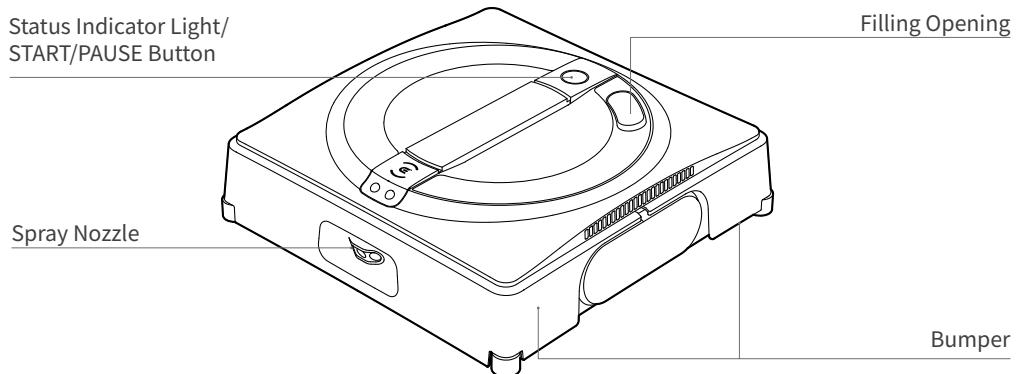


Wiping Pad

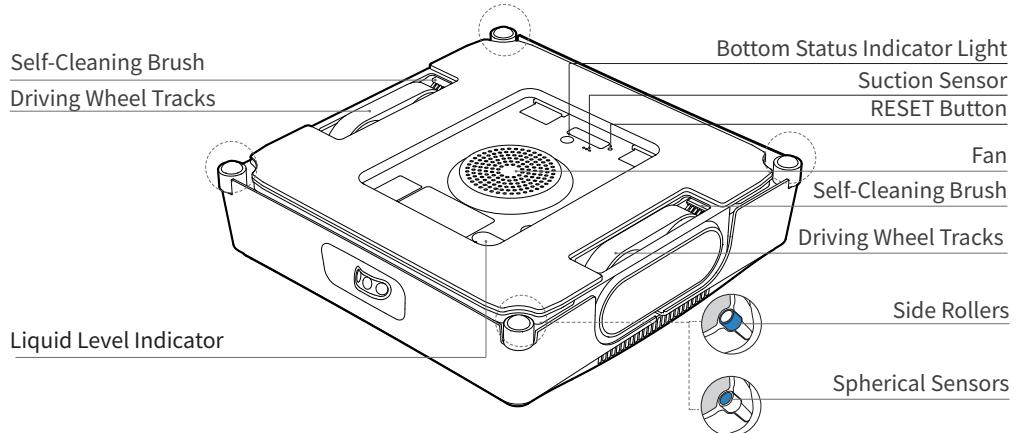
* Figures are for reference only and thus may differ from the product's actual appearance. Product design and specifications are subject to changes without notice.

1.2 Key Components

Front View



Bottom View



2. Quick Start

2.1 Notes Before Cleaning

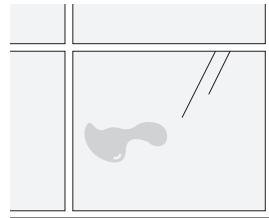
The following situations are not recommended for using WINBOT:

1 Do not use WINBOT in high humidity or extremely cold environments.

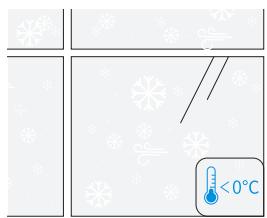
WINBOT may have difficulty moving in the following conditions.



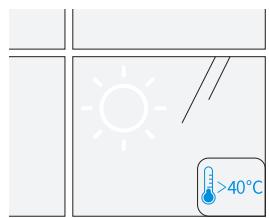
Condensation



Oil stains



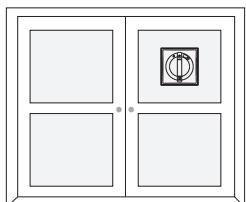
Below 0° C



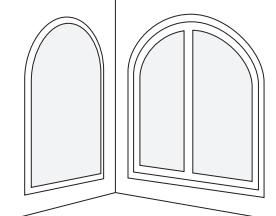
above 40°C

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



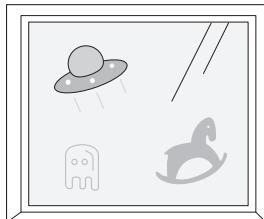
WINBOT delivers optimal performance on square and large windows.



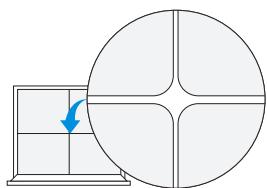
WINBOT performs better on dry surfaces and in temperatures above 0° C.

3 Do not use WINBOT on uneven windows.

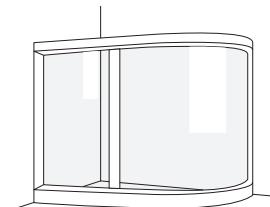
WINBOT may experience insufficient air pressure in the following conditions.



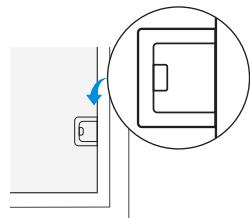
Electrostatic Window Decals,
Stickers, etc.



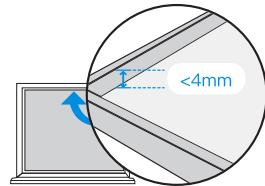
Cracks



Curved Glass



The height of obstacles is
less than 4 mm.

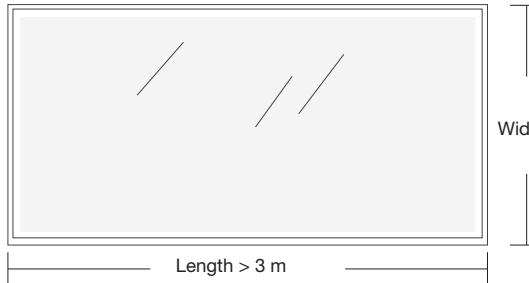


The height of frames is less than 4 mm.

 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 be unable to complete the task due to the length limitation of the compound cable.

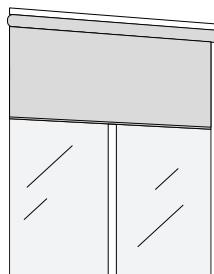
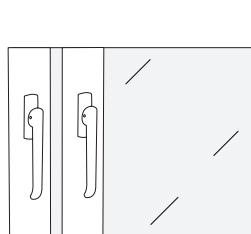


Width > 2.5 m

Length > 3 m

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

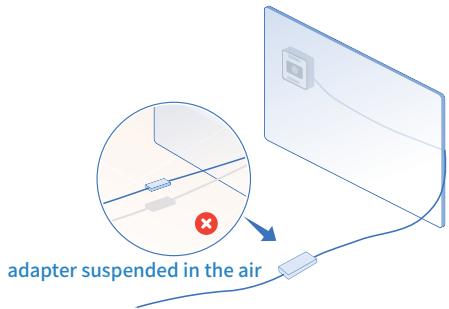
WINBOT may get stuck when nearby narrow spaces, openings, or gaps between window handles/door handles/ curtain boxes/cabinets and surfaces such as walls/windows, are close to its height.



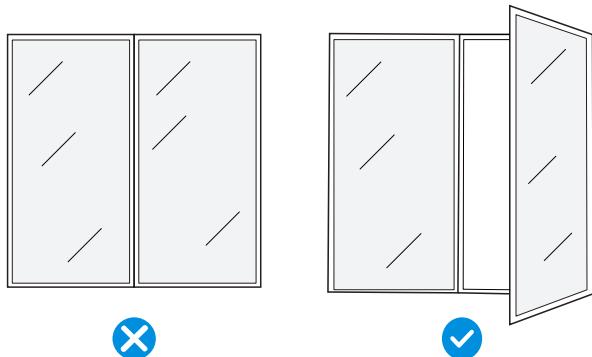
 Try placing WINBOT between the gap to confirm safe passage; if it's stuck, refrain from using the robot there to prevent damage to either itself or surrounding furniture.

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.

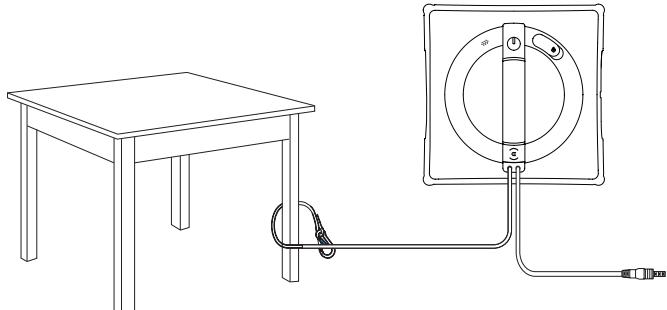


To clean glass panel doors, open the door before attaching WINBOT to avoid WINBOT falling due to narrow door gaps.



Before use, ensure that the safety rope is properly connected to prevent accidents.

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



2.2 Network Connection

Download the ECOVACS HOME App to control your WINBOT and unlock more features.

a. Multiple Cleaning Modes

Deep cleaning: Thorough cleaning efforts deliver better cleaning results.

Fast Cleaning: Quick removal of light dust.

Edge Cleaning: Cleaning along edges to clear accumulated dust.

Spot Cleaning: Repeated wiping to remove localized dust.

b. Manual Control & Corner Return

In the APP, switching views between interior and exterior windows is supported. Manual remote control helps remove stubborn stains. The "Return to Corner" function instantly sends the robot back to a specified corner.

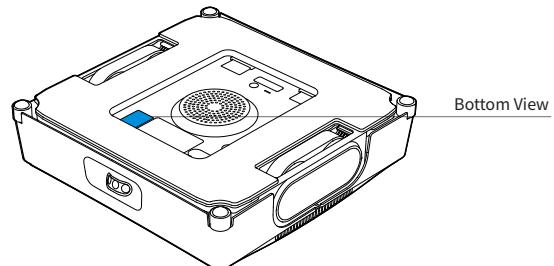
C. Automatic & Manual Spraying

WINBOT sprays water automatically by default for better cleaning results. Manual water spraying is also available via remote control.

d. Accessories Replacement Alerts for Better Cleaning Experience

1. Scan the QR Code on the bottom to download the ECOVACS HOME App, or search and download the APP in the APP store.

2. When installation is completed, complete registration, login, and network connection according to the guidance in the App.



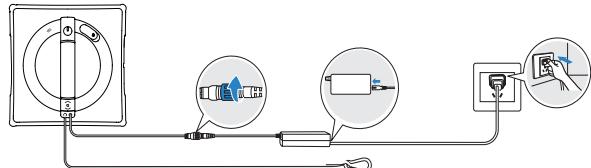
Or



2.3 Getting Started

① Connect WINBOT's Power Cable, Power Adapter, and Plug.

- * Please ensure the battery is fully charged before using it. Charging time will be approx. 3 hours.
- * To maintain charging time and efficiency, charge within a temperature range of 4~40° C.
- * Do not power off WINBOT while it is running, as it may risk falling.



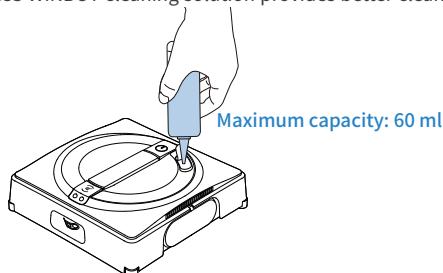
Follow the illustrated steps for the correct connection. Incorrect connection may result in charging failure or battery damage.

② Preparation Before Use

Fill the Water Tank with Cleaning Solution

It is recommended to use the ECOVACS WINBOT cleaning solution. The maximum volume of the water tank is about 60 ml.

- * Do not overfill the water tank with cleaning solution.
- * Do not add purified water and filtered water.
- * Please use the ECOVACS WINBOT cleaning solution. Using other cleaning solutions may result in suboptimal cleaning performance or cause damage to the product.
- * If the cleaning solution runs out, tap water can be used temporarily. However, the ECOVACS WINBOT cleaning solution provides better cleaning results.



Install Wiping Pad

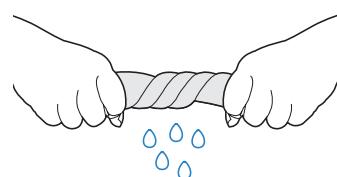
① Wet the wiping pad

Before using, wet the wiping pad.



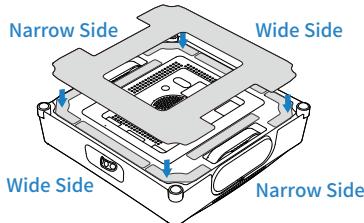
② Wring out the wiping pad

Wring out the wiping pad to remove excess water. For optimal cleaning performance, ensure it is wrung out as much as possible.



③ Stick the wiping pad

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

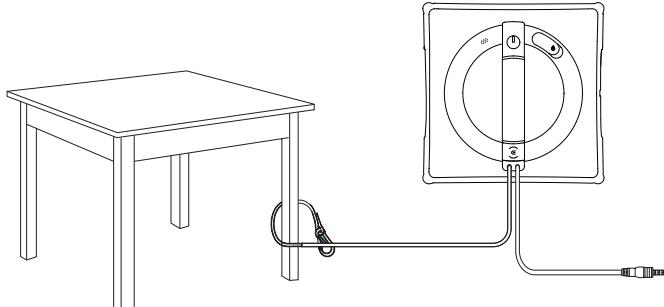


Tie the Safety Rope

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.

Note: Please make sure to use it under supervision.

People or animals are prohibited from standing directly below WINBOT's working area. Ensure there are no valuable or fragile objects below this area.



For safety, ensure the carabiner is securely fastened before use.

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

3. Start Cleaning

1. Before cleaning, ensure a clean area larger than WINBOT's size, then attach it to the glass.

2. Connect the power supply, then press and hold the WINBOT's START button for 2 seconds.

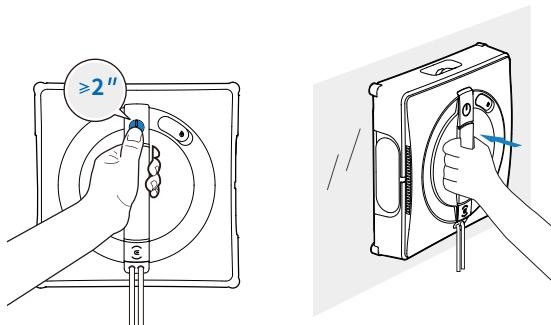
3. After hearing the fan start, place WINBOT's bottom (the side with the wiping pad) against the glass. WINBOT will adhere to the window automatically and start cleaning.

* Do not attach WINBOT too close to the edge when cleaning the frameless glass. It's recommended to keep it at least 10 cm away from the edge.

* WINBOT can only clean flat surfaces. Ensure the glass thickness is not less than 3mm.

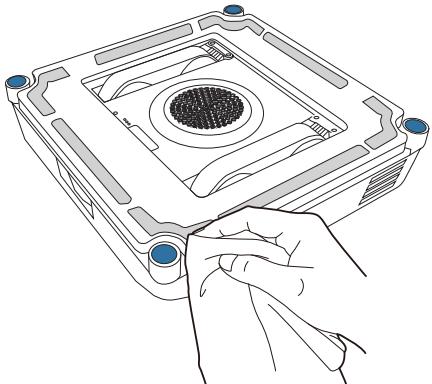
* After powering on, keep the fan away from hair and small objects to prevent blockages.

* Regularly clean the wiping pad and remove any small particles on the pad to avoid scratching the glass.



4. Maintenance During Cleaning

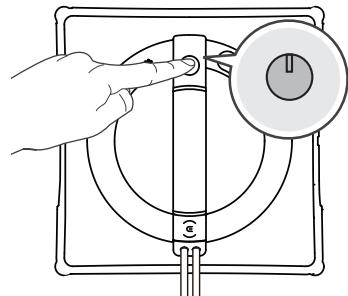
For heavily stained glass, wash or replace the wiping pad as needed, then wipe it repeatedly. Meanwhile, ensure the 4 spherical sensors are cleaned regularly for optimal cleaning performance.



5. Finish

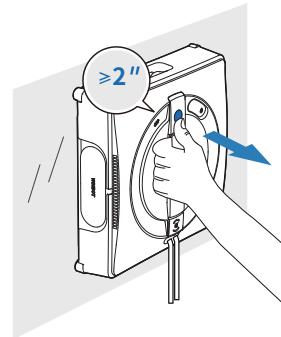
Pause

During cleaning, press  on WINBOT or pause the robot via App.



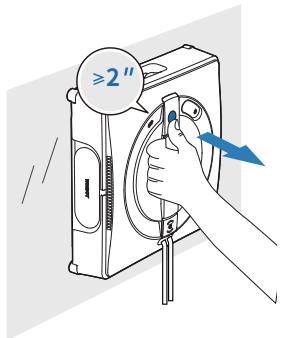
Remove WINBOT

When cleaning is complete, WINBOT will return to the starting position and beep. Please hold the handle tightly, then press and hold  for 2 seconds until the fan stops before removing WINBOT.

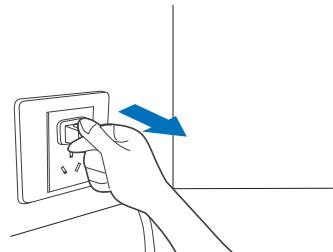


Power Off

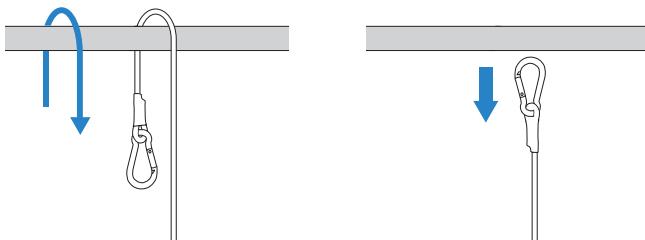
Press and hold WINBOT's START button for 2 seconds to stop the fan.
Follow the voice prompt to remove WINBOT.



Power Off



Unfasten Safety Rope

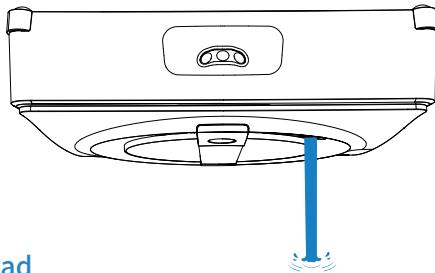


6. Component Maintenance

Water Tank

Cleaning the Water Tank

After WINBOT completes cleaning, empty the remaining cleaning solution from the water tank.

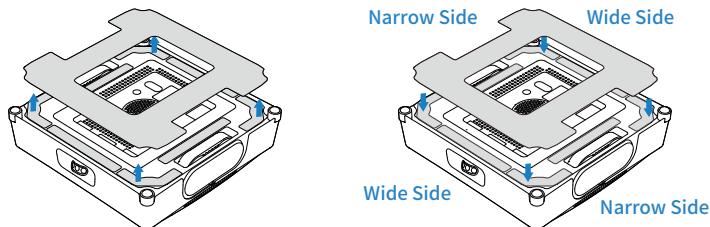


Wiping Pad

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. 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.

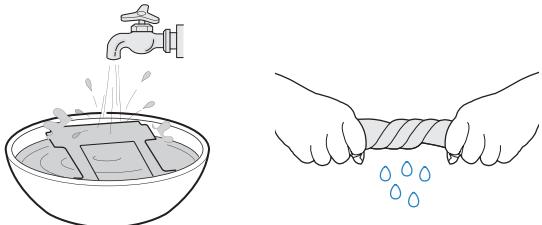
* Be careful not to stick the wiping pad outside the holder to avoid affecting WINBOT's operation.



* 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 the bottom of the robot, which may cause damage.

b. Wash Wiping Pad

Remove the wiping pad. Wash it with tap water, and wring it as dry as possible before use.



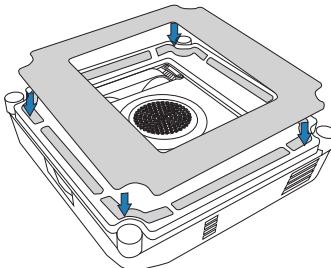
* Regularly clean the wiping pad to extend its service life. If the wiping pad becomes worn or no longer adheres securely to the velcro, replace it with a new one to achieve optimal cleaning performance. Explore more accessories at the ECOVACS HOME App or at <https://www.ecovacs.com/global>.

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.

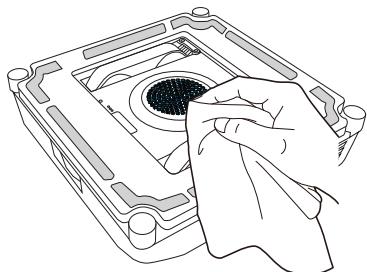


After cleaning the driving wheel tracks, install the wiping pad and resume cleaning tasks.

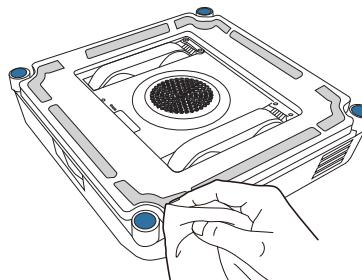


Bottom Components

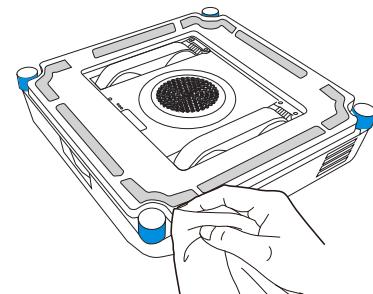
Fan: Wipe clean with a dry cloth to prevent damage to WINBOT's suction force.



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



Side Rollers: Wipe clean with a dry cloth to maintain its sensitivity.



* 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 will not be 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.

7. Status Indicator Light

Indicator	Light Effect	Meaning
START button/ Bottom Status Indicator Light	Solid Blue	WINBOT is in a normal operational state.
	Breathing Blue	Charging
	Flashing Red	Malfunction. WINBOT is unable to function properly
Adapter Status Indicator Light	Solid Green	WINBOT consumes a low current, for instance, in the standby mode.
	Solid Red	WINBOT consumes a high current, for instance, in the charging mode.

8. Troubleshooting

8.1 Issue Resolution

No.	Issues	Possible Causes	Solutions
1	The driving wheel tracks slip, causing WINBOT to deviate from its cleaning path. A voice alert indicates slipping.	The wiping pad is too wet.	Refer to [Component Maintenance] in this manual to replace the wiping pad. Use the cleaning solution as instructed in the manual, then restart WINBOT for automatic cleaning.
		The driving wheel tracks are dirty.	Refer to [Component Maintenance] in this manual to remove dust from the driving wheel tracks.
2	WINBOT does not move and the 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 surface to be cleaned.	Hold the safety rope or power cable by hand, and meanwhile, use the ECOVACS Home App to control and move WINBOT away from the gaps, cracks, or obstacles.
		The cleaning surface has small obstacles that obstruct WINBOT's movement.	

3	WINBOT moves with difficulty or spins in place, with a voice prompt saying the driving wheel tracks are stuck.	The driving wheel tracks are stuck.	Check the driving wheel tracks for any foreign objects. If present, try using tools to remove them. After cleaning, restart WINBOT to begin automatic cleaning. If the issue persists, please contact customer service.
4	WINBOT remains stationary or moves abnormally, with a voice prompt saying the bumper is stuck.	The bumper is stuck by foreign objects.	If the bumper is blocked by foreign objects, remove them, then gently shake WINBOT and tap the bumper to check if it moves and rebounds automatically. If the bumper is operational, restart WINBOT to see if the issue is resolved. If the bumper is still stuck after these steps, please contact customer service.
		The bumper is damaged.	
5	WINBOT remains stationary or moves abnormally, with a voice prompt saying hardware malfunction.	The spherical sensor's signal is abnormal.	A. Check if the spherical sensor is obstructed or covered by the wiping pad. B. Check if there are foreign objects on the spherical sensor; if so, clean it promptly. C. Check if the spherical sensor is damaged; if damaged, please contact customer service.
		Fan malfunction.	Check if there are any foreign objects in the fan; if there are, clean them promptly. If the issue persists, please consult customer service.

6	When WINBOT is attached to the window, it moves and then stops, prompting not to place the robot near the edge.	WINBOT is too close to the edge or obstacles, such as handles.	Use the ECOVACS HOME App to control WINBOT, moving it approximately 10 cm away from the edge or obstacle, and then resume cleaning. Alternatively, remove WINBOT, restart it, and position it about 10 cm from the edge or obstacle to start cleaning.
7	WINBOT is stuck, with a voice prompt saying WINBOT is stuck. The driving wheels can rotate, but WINBOT cannot move.	Obstacles cause WINBOT stuck in place.	Secure the safety rope, then gently pull the power cable while using the ECOVACS HOME App to control WINBOT to move away from the stuck area. If the issue persists, please contact customer service.
8	After starting WINBOT and attaching it to the window, the voice prompt says the water tank level is insufficient.	The water tank does not contain the cleaning solution.	Please add the ECOVACS WINBOT cleaning solution to the water tank. Do not add purified water or filtered water.

8.2 Connect WINBOT with APP

When connecting the robot via Bluetooth in the ECOVACS HOME App, please ensure the following conditions are met for both the robot and your phone:

1. Bluetooth on your phone is turned on.
2. The station is powered on, and the indicator light is on.
3. Pair WINBOT via Bluetooth in the ECOVACS HOME App; avoid pairing through your phone's Bluetooth settings.
4. Bluetooth and Wi-Fi may interfere with each other during pairing. For optimal connection, keep WINBOT close to the phone and away from the Wi-Fi router.
5. If WINBOT fails to connect to the App, try disconnecting other connected Bluetooth devices, ensure WINBOT is not paired with another phone, and then try again.
6. When using remote control, Bluetooth may disconnect if the phone is too far away or if there are walls in between. If disconnected, try reconnecting at a closer distance.
7. When using WINBOT, allow the ECOVACS HOME App to access location, Bluetooth, and phone storage permissions.

Please contact customer service if the above methods fail to help connect.

9. Technical Specifications

Model	WG819-14	Power Adaptor	GM95-240375-D
Rated Input	24V === 3.75A	Input	100-240V~ 50-60Hz 2.5A
Rated Power	90W	Output	24V === 3.75A
WINBOT Dimensions (mm)	271*271*77.5		

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

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