

# ***AlfaBot***

## **Window Cleaning Robot – Dual Ultrasonic Spray**



### **User Manual for AlfaBot GLS400**

Thanks for your purchase. Any questions please don't hesitate to contact us, We will handle all your problem ASAP. Your feedback is vital to us! And we will always try to do better. For more details, please contact us by email **[alfaboteu@hotmail.com](mailto:alfaboteu@hotmail.com)** (Write your seller's Order #on the subject of the email, so that we can find your order and better assist your issue)

# 1. Safety Precautions

Always read all instructions carefully before use and keep this manual for future reference.

## 1.1 About the Scope of Product Application

The product is suitable for cleaning all kinds of smooth surfaces, including glass, floor, ceramic tile, marble, etc.

\* Do not use it on windows with broken silicone/rubber edges to prevent the window washing robot from losing suction and falling. The place and safety of use must be judged and responsible by the user.

## 1.2 Safety Information & Warming Before Use

- Fasten the safety rope and tie it to an indoor fixture to avoid falling of the machine.
- Please check if the safety rope is damaged and the knot is loose before use.
- For glass doors and windows without a balcony, a hazard warning area must be set up on the ground downstairs, to prevent people from approaching.
- **The machine must be connected to the power cord to working normally.**
- **Use the machine when the built-in battery is fully charged (green light on).**
- Please turn power on before putting the machine on the glass.
- When putting the machine onto window, make sure it sticks to the surface.
- Please take off the machine before turning the power off.
- **Please be cautious when using on frameless glass.**
- Make sure to put the cleaning pad onto the device correctly to avoid air leakage.
- Do not use in rainy or humid weather.
- Do not spray water or pour water directly on the machine.
- Prohibit children from using this device.
- Remove any obstructions on window. Do not use on cracked window. Reflective or coated window may be scratched during operation by dirt on the window.
- Keep hair, loose clothing, fingers, and all body parts away from the openings and moving parts.
- Do not use in areas containing flammable or combustible liquids or gases.
- Only fill the water tank with fresh water.
- Empty the water tank before putting the device away.
- Do not expose your device to rain or excess humidity, and keep it away from liquids (such as beverages, faucets, and so on).
- Avoid exposing your device to direct sunlight or sources of intense light, and keep it away from sources of heat (such as radiators, space heaters, stoves, and so on).
- Do not place the device in the vicinity of strong magnetic fields.
- Keep the device and accessories away from children.
- Product operating temperatures: 0°C~40°C (32°F~104°F).
- Product storage temperatures: -10°C~50°C (14°F~122°F).

### 1.3 Safety Information About Adapter/Battery

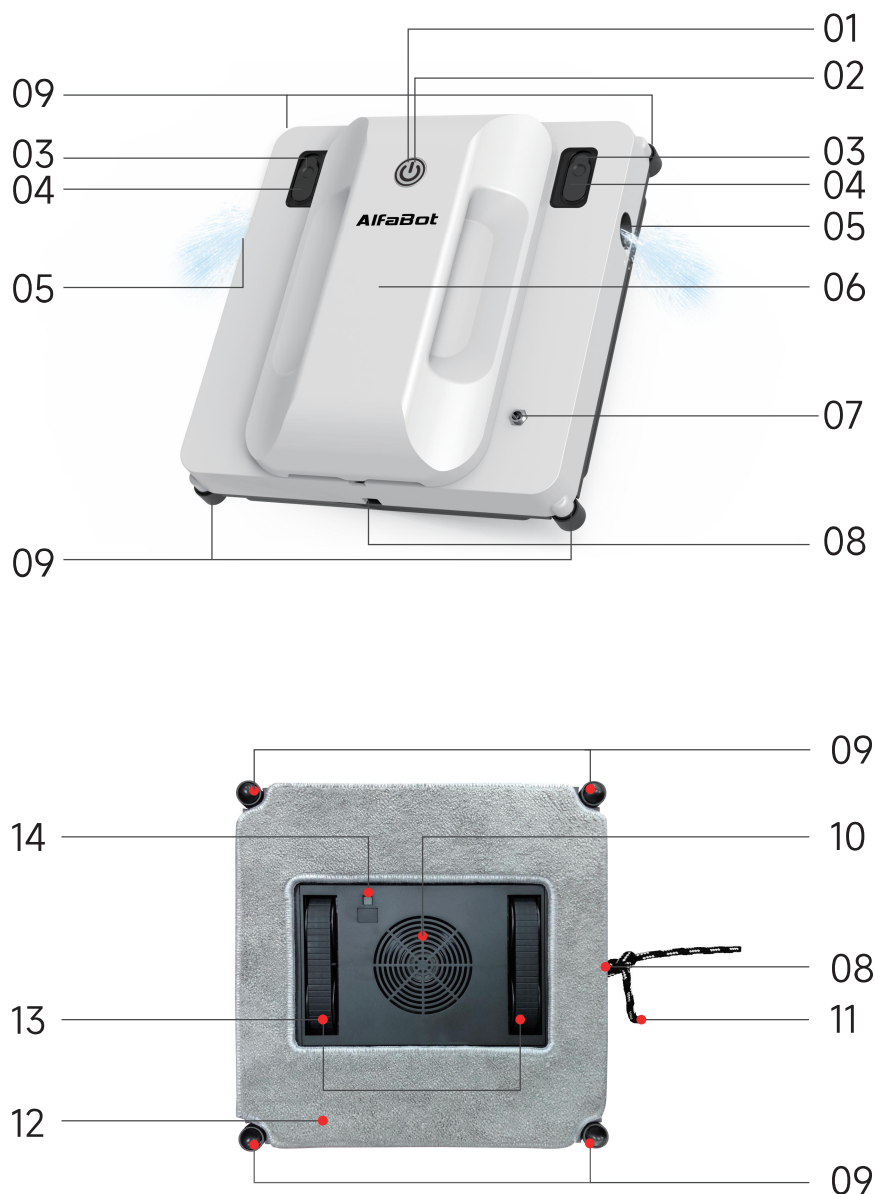
- Use only the original adapter supplied with this device. Use of other types of power adapters will result in malfunction and/or danger.
- Please use a proper electrical outlet and make sure no heavy objects are placed on the power adapter or the power cord.
- Allow adequate ventilation around the adapter when using it to operate the device.
- Do not cover the power adapter with objects that will reduce ventilation and cooling.
- Do not use the adapter in a humid environment. Never handle the adapter with wet hands.
- Connect the adapter to a proper power source. The voltage requirements are listed on the adapter.
- Do not use a broken adapter, power cord, or plug.
- Do not attempt to service the adapter by yourself. There are no service parts included.
- The battery used in this device may present a risk of fire or chemical burn if mistreated.
- Do not disassemble, short the contacts, heat above 60°C (140°F), or incinerate.
- If you have to dispose of old equipment, please take it to the local recycling center for recycling electrical and electronic parts.
- **Please charge the battery every 3 months to conserve the battery life.**

## 2. Product Informations

AlfaBot GLS400 window cleaning robot has AI Technology embedded that calculates paths and auto-detects window edges; you can clean your windows as easy as in one touch. The robot also brings revolutionary bio-mimicry technology into play! The new patented invention carries double water tank along with an ultrasonic water spray nozzle which nebulizes water to 7µm mists then sprays it evenly on glass like the effect of human exhales on glass surface. And it is very water-conservation and eco-friendly, it can clean more than one square meter area with just one milliliter water or detergent. Additionally, the easily-replaceable microfiber cloth not only attracts dirt into fibers but also absorbs water to offer smear-free finish.

## 2.1 Product Structure Introduction

1. Button: Start / Stop
2. Blue light: normal status  
Red light: abnormal status  
Orange light: charging  
Green light: full-charged
3. Water tank cover
4. Water tank
5. Ultrasonic nozzle
6. Handle
7. DC power jack
8. Hanging hole
9. Anti-slip casters
10. Suction area
11. Safety rope
12. Cleaning pad
13. Wheels
14. LED indicator



## 2.2 Product and Accessories

- Window cleaner robot X 1
- AC power cord X 1
- DC extension cord x 1
- Water filling bottle X1
- Remote controller X 1
- Cleaning pads X 3
- Safety rope X 1
- Adapter (100~240VAC, 50~60Hz) X 1
- User Manual X 1

## 2.3 Product Features


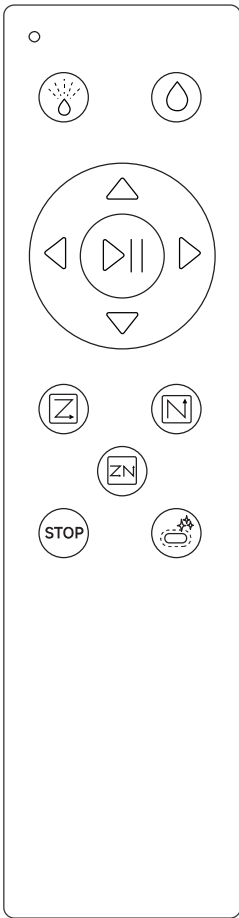









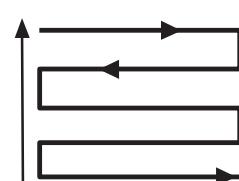

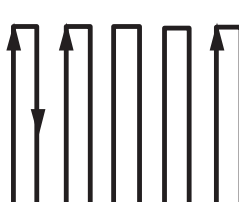

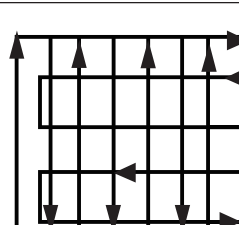
- Smart automatic dual-side water spray.
- Can wipe any thickness of glass.
- AI Technology.
- 3 directions of automatic modes for cleaning the whole window.
- Automatically stop after cleaning.
- Built-in UPS (uninterruptible power system) support 40mins after power outage.
- Anti-drop design.
- Automatically detect window frame.
- Manual remote control mode.
- Return to start position after finishing cleaning
- Microfiber cleaning pads.
- High-strength safety rope(150Kgf), safety rope buckle.
- OTA Upgrade the firmware version.
- Super low noise won't affect daily life.
- Ultra-thin body could working on narrow outside windows.
- Walking belt-cleaning modes make users maintain the robot clean better.

## 2.4 Technical Specifications

Model:	AlfaBot GLS400
Item Size (L*W*H):	24,5 x 24,5 x 8,9 cm /9,6 x 9,6 x 3,5 in
Net weight:	1,3 Kg (2,8 lbs)
Package Size (L*W*H):	32 x 25,5 x 10,5 cm/12,6 in x 10,0 in x 4,1 in
Package Weight:	2,5 kg/5,5 lbs
Input Voltage:	100-240 VAC, 50-60 Hz
Output voltage:	Minimum 24 V/3,0 A
Power:	72 W
AC power cord:	1,2 M/3,9 ft
DC power extension cable:	4 M/13,1 ft
Safety rope:	4,5 M/14,8 ft
Strength:	150 Kgf
Water tank capacity:	50 ml (left 25ml + right 25ml)
Nozzle type:	Ultrasonic, 160±5 Khz (Kilo Hertz)
Water particle size:	7-8 µm (Micrometer)
Back-up Battery:	4 x Li-Ion battery, 3,7V
Suction Maintenance Time After Power Failure:	>40 Mins
Cleaning speed:	1,1 min/m <sup>2</sup> (6,6 sec/ feet <sup>2</sup> )
Noise:	64 dB

## 2.5 Remote Control Instructions

The remote control is equipped with 2.4G wireless technology. Be sure to insert AAA batteries before using it. Just pull down the cover to replace the battery.

Icon	Button	Features	
	Auto spray switch	Press it to switch the auto and manual spray modes.	
	Manual spray button	Press it to spray water in manual, spraying once for each press.	
	Upward cleaning button	Press it to move upward and stops at the edge.	
	Downward cleaning button	Press it to move downward and stops at the edge.	
	Left cleaning button	Press it to move left and stops at the edge.	
	Right cleaning button	Press it to move right and stops at the edge.	
	Switch button	Press it to start the Auto-N mode, to stop or to continue cleaning.	
	Stop button	Press it to stop cleaning.	
	Wheel belt cleaning Mode button	When the robot is on and in working, place it flat with the bottom facing up, press this button and the machine will start this mode. Press this button again to stop this mode. The machine returns to standby working state.	
	Auto-Z cleaning mode	The robot goes up and down the "Z" cleaning path automatically and returns to the starting point after finishing cleaning.	
	Auto-N cleaning mode	The robot goes up and down in the "N" cleaning path automatically and returns to the starting point after finishing cleaning.	
	Auto Z&N Cleaning mode	The robot goes up and down in "Z" mode and then moves left and right in "N" mode, returns to the starting point after finishing cleaning.	



## 2.6 LED Indicators

Situation	LED indication	Sound
Auto-Spraying function is on	Blue LED is flashing	/
Manual Spraying function is on	Blue LED is always ON	/
Battery charging	Yellow LED is ON	/
Battery charged full	Green LED is ON	/
No electrical power	Red LED flashing	Repeat beep
Hardware error	Red-LED flashing	Beep 3-8 times
Robot stops / Standby status	Blue LED is flashing	/
Wheel belt cleaning mode	Blue LED is flashing	/

## Malfunction Indicator

Situation	LED indication	Sound
Prolonged suspension during movement	Blue light always on, red light flashing (observation may be purple light)	/
Difficulty in running the machine	Red and blue lights alternate	/
Gyroscope failure	Red light flashes 5 times	/
2.4G failure	Red light flashes 7 times	/
Switch malfunction	Red light flashes 8 times	/

## 2.7 UPS (Uninterrupted Power System) Function

- (1) The UPS function will be enabled automatically when no electric power is supplied.  
The backup time of this UPS is 40 minutes.
- (2) If no electric power is supplied, the device will stop automatically, sound an alert, and flash a red light. The user should take the device down from the glass as soon as possible.
- (3) The safety rope can be used to gently pull the machine back; when pulling the safety rope, it should be as close to the glass as possible to avoid falling.

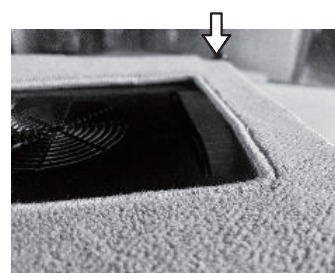
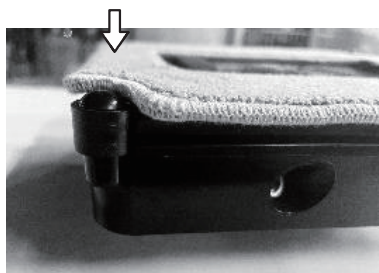
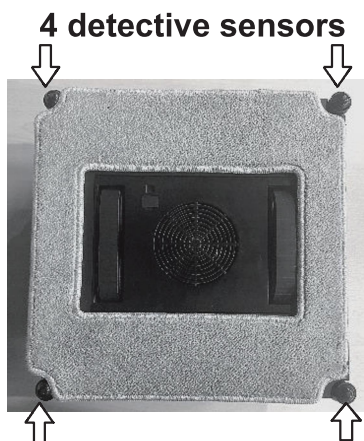
## 3. Steps for Usage

To work properly, the robot must always be connected to the power supply in the process of using.

### 3.1 Put the Cleaning Pad on the Robot.

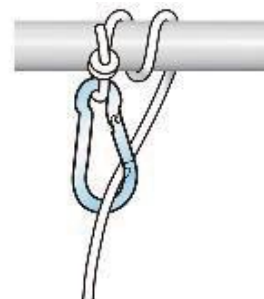
Make sure to put the cleaning pad onto the device correctly to avoid air leakage.

Robot has 4 detective sensors for detecting glass edge. Put cleaning pad onto device flatly and do not let pad cover the caterpillar wheel and these four sensors.



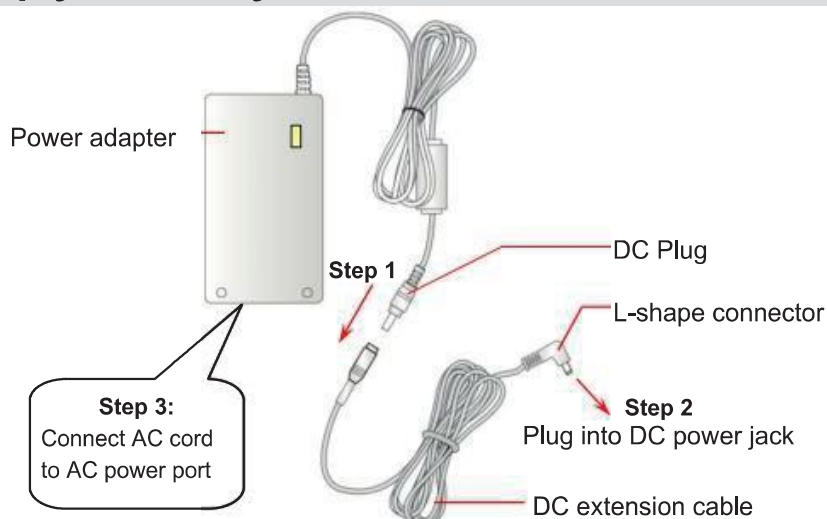
### 3.2 Connect the Safety Rope.

- (1) For glass doors and windows without a balcony, a hazard warning area must be set up on the ground downstairs, and people are prohibited from approaching.
- (2) Please check whether the safety rope is damaged and the knot is loose before use.
- (3) Be sure to fasten the safety rope before use, and tie the safety rope to the fixed objects in the house to avoid danger.



### 3.3 Connect the Power Supply Correctly.

1. Connect the adapter to the DC extension cord.
2. Connect the DC extension cord to the robot.
3. Plug into the socket.





### 3.4 Charge the Back-Up Battery.

The machine has a built-in battery for backup power in case of power failure. Before use, please make sure that the battery is fully charged (green light is on).

- (1) Plug it into a power source. Yellow light ON means charging.
- (2) Green light ON means the battery is fully charged.

### 3.5 Fill in Pure Water.









Fill the two water tanks with clean water and tighten the tank lids fully after filling. Only use clean water or clean solutions with pure water.

### 3.6 Attach the Machine to the Window.

- (1) Turn on the machine and confirm the fan is working.
- (2) Put the machine onto the glass, and keep 10 cm away from the window frame.
- (3) Confirm that the machine can be attached to the glass before releasing it.

**Warning: the robot must be placed on a window with an orientation of 15 to 90 °. Otherwise it could get into error and not work.**

### 3.7 Automatic Cleaning Mode and Manual Cleaning Mode.

- (1) Press the switch button on the robot or the button (  ) to start the "N" automatic mode with auto spray mode.
- (2) Press the 3 auto mode buttons "  " "  " "  " by remote control to automatically clean the window.
- (3) Press the 4 arrow buttons (     ) to control cleaning in manual mode.

### 3.8 Finish the Cleaning and Remove the Machine from the Window.

- (1) After complete cleaning, make the robot move to low edge.
- (2) Grasp the window cleaner with one hand and turn off the power with the other hand.
- (3) Remove the window cleaner.

## 4. How to Clean Windows

### 4.1 Dry Wipe First

- The first time you wipe, you must "dry wipe" (turn off the water spray function and do not spray any water), and first remove the wind and sand on the glass surface.
- If you spray some water on the cleaning cloth or glass first, the water will mix with the sand and turn into yellow muddy water, and the wiping result will be poor.

※ If it's slipping on the glass, you can spray a little water on the cleaning pads ※

### 4.2 Then Wet Wipe

Replace the clean cleaning pad, turn on the automatic water spray function. Spray a little water on the cleaning pad or on the window. Do not make it too wet, the completely wet cleaning pad will affect the machine Running.

### 4.3 Cleaning Tips

1. Wipe with a dry pad first, then wipe with a damp pad for best results. For the dirtiest glasses, you can wipe them several times to ensure the cleaning effect.
2. Dusty windows must be cleaned with a dry-cleaning pad or with the device without turning on the spraying function.
3. Use the machine in sunny or low-humidity weather, dry wiping works best.
4. The surface of window with water molecules becomes slippery and has white streaks left on the window so it is not suggested using the device to clean exterior windows on rainy or high humidity days.
5. Do not get the cleaning pad completely wet during normal use.
6. If the machine runs slowly, please replace the cleaning pad.

## 5. Cleaning and Maintenance

### 5.1 Mainstenance for robot

- When the device easily slips on the surface of window, it is because belts are stained with accumulation of dust after using. Please follow 3 steps below.

Step 1: Turn the device upside down.

Step 2: Press remote control button  , the device's caterpillar belts continually rotate for your better clean up the dirts and dusts on the belts.

Step 3: Use cloth clean caterpillar belts and keep cloth in the middle of belts to avoid cloth being jammed in the belts. If cloth is jammed, users can press the same button to stop and draw it out.



- **Clean the four corner detective sensors**

Use a clean and dry soft cloth to clean these four sensors.  
Frequency: Before each use

- **Replace or wash the pads when the pad is too dirty**

Make sure when you use it next time it won't too dirty or too wet (after wash it should dried before use).

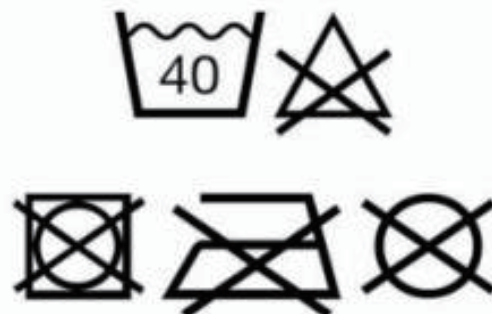


## 5.2 Washing for cleaning pads

Washing instructions for the cleaning cloth.

- Washing temperature is under 40°C (104°F).
- Do not use bleach.
- Do not tumble-dry.
- Do not iron.
- Do not dry clean.

Maintenance frequency: after each use.



## 6. Troubleshooting(FAQ)

**Q1: When the power switch is turned on, the fan does not rotate, and no any beep sounds.**

Cause	LED indication / Sound	Solution
<b>1. Battery voltage is too low</b>	Blue: flash Red: off Orange: on Sound: no beep	Wait for battery to fully charge (green light is on). If machine still can't be used after charging for 5 hours, the battery should be replaced.
<b>2. Hardware failure</b>	Blue: flash Red: flash Sound: beep	Must replace the hardware, please contact the seller for repair.




**Q2: When the power switch is turned on, the fan is rotating, Blue-LED is lighting, Red-LED is flashing, with repeat beep sounds.**

**Ans:** No electrical power supplied. Please check power cord, adapter, and the device, and connect again the power supply to normal working.


**Q3: When the power switch is turned on, the robot can't start up by remote control.**

Cause	LED indication / Sound	Solution
<b>1. The vacuum pressure is not enough</b>	Blue: on Red: flash one time Sound: single beep	Re-attach cleaning cloth onto device again, or change a new cleaning cloth.
<b>2. Remote control failure</b>	Blue: on Red: off Sound: no beep	Please contact the seller for repair or replacement.

**Q4: The Robot slips and cannot detect the upper frame of window in “N” mode.**

**Ans:** Press  or  to stop the robot, switch to  manual mode to lower the half of the device and then switch to “N” mode again, or switch to “Z” or “Z/N” mode.

**Q5: The robot cannot finish cleaning the whole window and stops in the middle area.**

**Ans:** Press  or “Z” or “N” mode to continue cleaning.

**Q6: The robot slips and cannot reach the top of window.**

**Ans:**

- (1) The cleaning pad already got heavy dirt or too wet. It shall change cleaning pad.
- (2) The caterpillar belt might be too wet or got heavy dust. It shall clean caterpillar belt.
- (3) Spray two or three times water to the mop or on the window surface in front of the robot running.

**Q7: The robot does not move smoothly, or it moves irregularly.**

**Ans:**

- (1) Cleaning pad is too dirty. Please change a clean-cleaning pad and clean again.
- (2) Window surface has different friction factor areas due to glass stickers, window film, and so on. Please limit use the robot to certain areas of the window.

**Q8: What to do if the robot stops due to a power outage?**

**Ans:**

- (1) User can pull the robot back with the safety rope. Gently pull the safety rope at an angle close to the glass to prevent it from falling off the window.
- (2) Switch the power switch to “off”.
- (3) Check whether there is a poor connection or broken cord.

**Q9: What to do if the robot unexpectedly stops and the red light is flashing, with no alarm sounding?**

**Ans:**

- (1) User can move the robot to safe area by remote control, or pull the robot back with the safety rope. Gently pull the safety rope at an angle close to the glass to prevent it from falling off the window.
- (2) Remove obstacles on the window surface.
- (3) Check whether there is air leakage caused by a gap or uneven window frame.

**Q10: The robot cannot spray water.**

**Ans:**

- (1) Check if you have turned on the spraying function.
- (2) Clean the surface of the ultrasonic nozzle with a soft, dry and clean cloth.

## 7.Warranty

If the product does not work properly due to internal component problems within one year from the date of sale, you can contact the seller to repair it for free.

### Not Covered By Warranty

- Normal wear and tear (e.g. cleaning cloth, safety rope, water tank, etc).
- Reduction in battery discharge time due to battery age or use.
- Damage caused by assembly or installation that is not in accordance with the instructions included with the AlfaBot.
- Damage caused by using the window cleaning robot for anything other than normal domestic household purposes.
- Damage caused by using parts and accessories which are not specified by AlfaBot.
- Damage caused by accidents, abuse, or misuse.

### Contact us

If you receive a defective item or have any problems with this item, please email us at **alfaboteu@hotmail.com**

- Amazon Order ID
- Short description or videos of the defect