Robotic Pool Cleaner
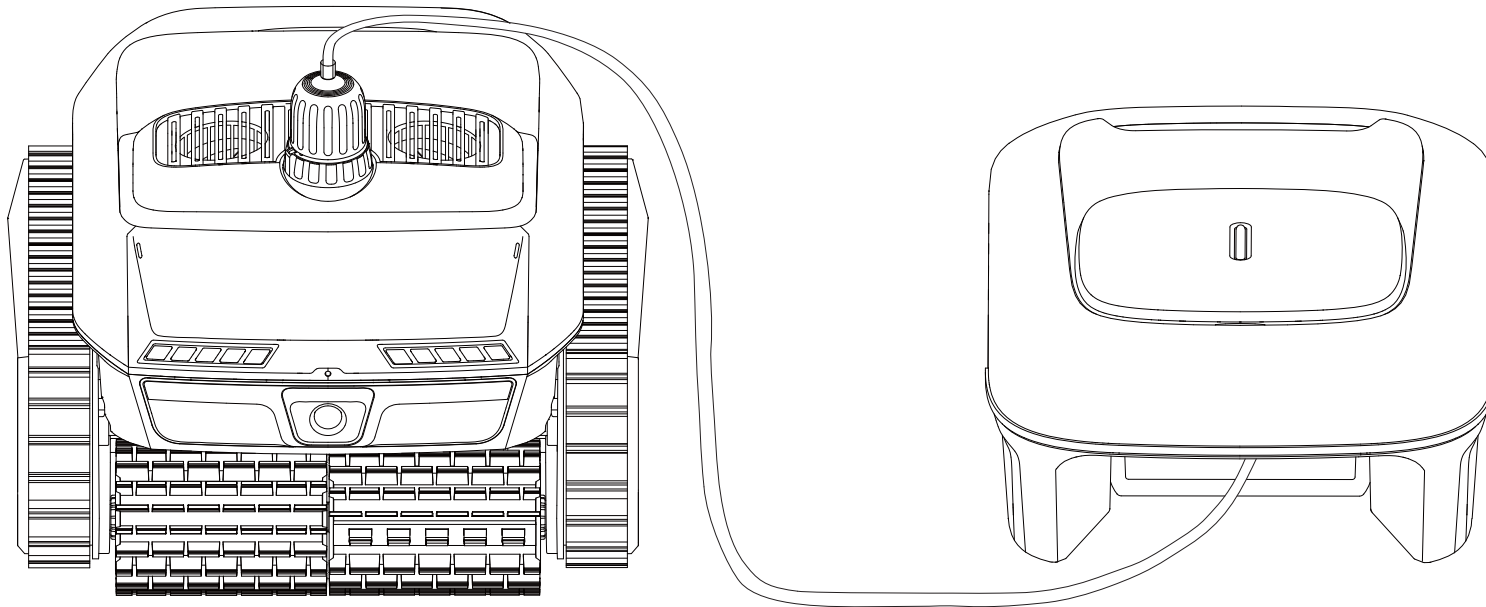
User Manual

Please read this manual carefully before using the product and store the manual properly.

Contents

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1. WARNINGS

Thank you for purchasing Airrobo Robotic Pool Cleaner.
Please read this manual carefully before using the product for the first time and keep this manual for future reference.

- This product is intended for domestic use only and not for commercial or industrial purposes.
- This product has undergone rigorous testing before leaving the factory, including underwater testing. Therefore, there may be a small amount of water droplets or dirt remaining inside, which will not affect the operation of the product. Please feel free to use it normally.
- Do not operate the device when people or animals are in the pool.
- Please fully charge the robot before using it for the first time.
- Use only the adapter provided with the product for charging. Never use a third-party adapter. Do not use extension cables under any circumstances. Keep the product away from combustible materials when charging.
- Do not use a damaged power adapter to charge the product. A damaged power cord must be replaced by the manufacturer, a service agent, or personnel with similar qualifications. Never try to repair a damaged power cord by yourself. If repair is required, contact us.
- Make sure that the charging port is dry before connecting the product to the power supply.
- Please charge the product in a safe place away from water.
- Ensure that the power outlet is protected by a ground fault interrupter (GFI) or a ground leakage circuit breaker.
- Do not charge or use the robot when any abnormality is detected. Please contact customer service.
- This robot is not intended for use by people with reduced physical, sensory, or mental capabilities or lack of experience and knowledge (including children) unless they have been given supervision or instruction for using the robot by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the robot.
- Cleaning and maintenance must not be performed by children without supervision.
- All packaging materials should be disposed of properly and kept away from children and pets.

- This product contains a non-replaceable battery. Do not disassemble the battery. When the battery life ends, the robot should be disposed of properly.
- Do not attempt to repair or modify any part of your product. All repairs must be done by qualified personnel only. No user-serviceable parts are included. If repair is required, contact us.
- This product must be serviced by a qualified professional with sufficient experience in the installation and maintenance of swimming pool equipment so that all instructions in the complete installation and operation manual can be accurately followed. Be sure to explicitly follow all safety instructions in the complete manual to prevent the risk of injury. No user-serviceable parts are included. Please contact us when you need repair services.
- Before cleaning or maintaining the robot, be sure to unplug the power plug from the power outlet.
- Do not pierce the robot casing with nails or other sharp objects. Do not hammer, impact, or throw the robot.
- Do not expose the product or battery to excessive temperatures.
- Be sure to remove the battery from the robot before recycling or disposing of the robot. When removing the battery, always disconnect the robot from the power supply.
- Please dispose or recycle used batteries in accordance with local administrative regulations. Consult a professional recycling agency if necessary.
- The oil sealing around the motor contains grease, which may cause a small amount of water pollution if the motor is damaged. If you believe there is a leak, stop using the product immediately.
- The charging position of the product should be at least 3 meters away from the edge of the pool
- Only use the robot under the following water conditions:

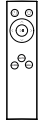| Chlorine	Max 4 ppm
PH	7.0-7.4
Sodium chloride	Max 5000 ppm
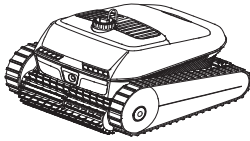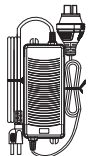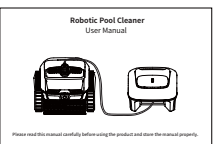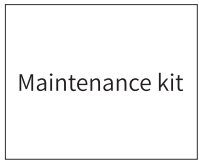
Before charging, read the instructions.

Maximum operating depth：3m.
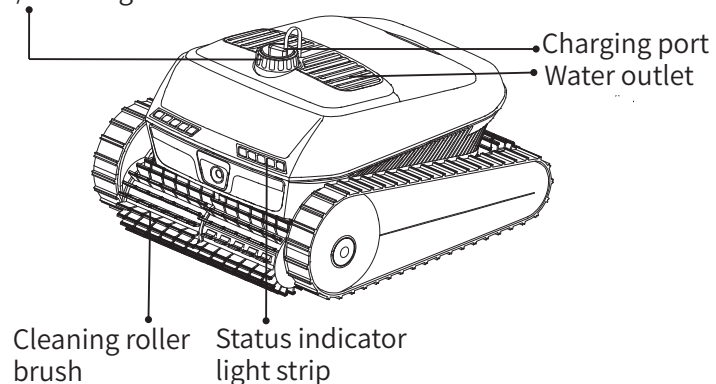
3 m

2.Packing List

Robotic Pool Cleaner (With built-in filter) × 1	Power adapter × 1	Hook × 1
Remote controller Without AAA batteries × 1 (Optional)	Water surface cleaning module (Including connecting cable) × 1	User manual × 1

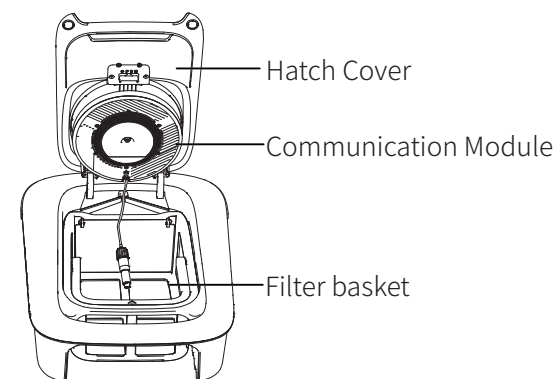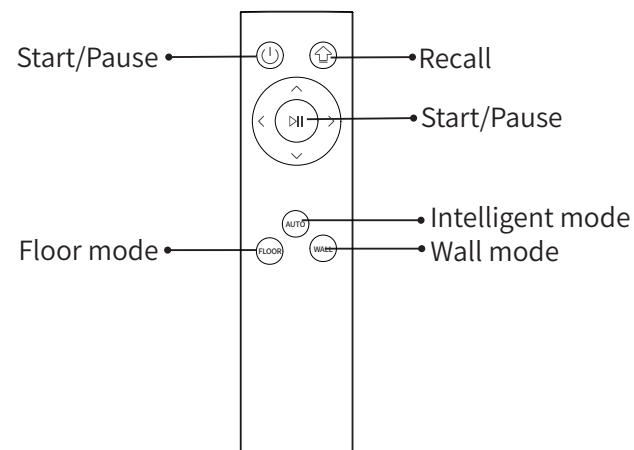| Maintenance kit	Maintenance kit × 1 Including: Combined machine screw 1 × 2pcs. Self-tapping screw 1 × 4pcs. Combined machine screw 2 × 2pcs. Self-tapping screw 2 × 4pcs. Buckle hand piece press strip × 1pcs. Circlip × 4pcs. Flip buckle hand piece × 1pcs. Washer × 4pcs.

3.Product Overview

Robotic Pool Cleaner

Power switch/Cleaning mode selection

Charging port
Water outlet

Cleaning roller brush

Status indicator light strip

Water surface cleaning module

Hatch Cover

Communication Module

Filter basket

Remote controller

Start/Pause

Recall

Start/Pause

Floor mode

Intelligent mode
Wall mode

Note:
• Before using, install two AAA batteries in the remote control, making sure that the positive and negative ends follow the markings indicated in the battery compartment.
• Two AAA batteries are not included in the package.
• Remove the batteries from the remote control if you will not use it for a long time.
• Non-rechargeable batteries are not to be recharged.
• Different types of batteries or new and used batteries are not to be mixed.
• Batteries are to be inserted with the correct polarity.
• Exhausted batteries are to be removed from the appliance and safely disposed.
• The supply terminals are not to be short-circuited.

| Applicable pool size	swimming pool of 3,229 square feet (300 square meters)
Pool depth	0.5-3 m (1.64-9.84 ft)
Robot dimensions	477×419×278 mm/18.8×16.5×10.9 inches
Robot weight	11 kg/24.3 lbs
Charger input	100-240 V~50/60 Hz
Charger output	29.2 V ⎓ 5 A
Host input	29.2 V ⎓ 5 A
Lithium battery capacity Max.	10,400 mAh
Battery life	2.5 hours
Charging time	2 hours
Filter density	180 μm
Moving speed	15 m/min (49.2 ft/min)
Waterproof rating	IP68
Storage temperature	-20°C to +45°C
Model	PC200, CP400

4.Instructions for Use

4.1 Charging

• Please fully charge the robot before using it for the first time.
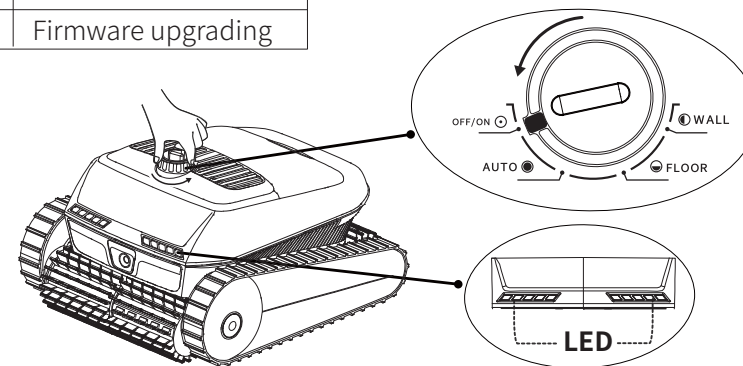• Make sure that the charging port is dry.

Initial charging
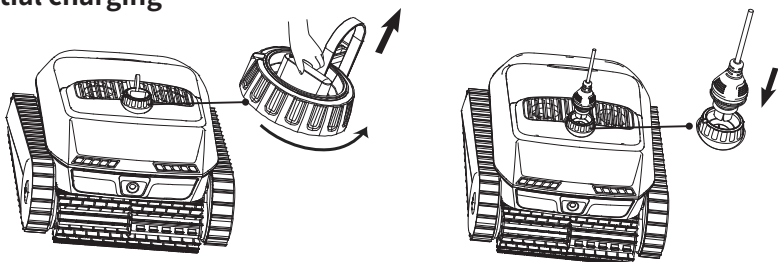
Charging after use
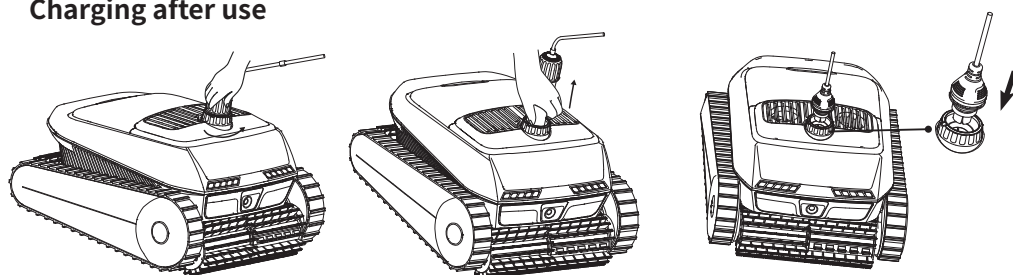
4.2 Power and status indicators

LED Color	Status
Green	Sufficient battery
Blue	Insufficient battery
Orange	Very low battery
Red	Fault
White	Firmware upgrading

LED

Robot fault indicator

| The robot temperature is too high	The indicator quickly blinks red.		
The water pump is blocked	The indicator blinks red. The fourth and fifth LEDs turn on and then off at the same time. Then, the sixth and seventh LEDs turn on and off, blinking alternately with the fourth and fifth LEDs.	❶ ❷	
The motor is blocked	The indicator quickly blinks red until the status changes.		
The robot is trapped/ turned over	The indicator quickly blinks red until the status changes.		
The IMU initialization failed:	The indicator quickly blinks red until the status changes.		
Water entered the robot	The indicator quickly blinks red until the status changes.		

Water surface cleaning module indicators

LED Color	Status
Green	Sufficient battery
Blue	Insufficient battery
Orange	Very low battery
Red	Fault
White	Firmware upgrading
The orange indicator slowly blinks red and then turns off.	The robot shuts down due to low battery.
Network pairing	The indicator quickly blinks blue.

LED ──
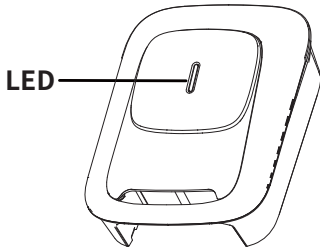
4.3 Cleaning mode

Cleaning Mode	LOGO	Cleaning Area
Intelligent cleaning	● **AUTO**	Clean the floor/wall/waterline
Floor cleaning	◒ **FLOOR**	Clean only the floor
Wall cleaning	◑ **WALL**	Clean the walls and waterline
• Waterline cleaning	/	Clean only the waterline

• Waterline Cleaning：Rotate in the order of 3-2-3 within 2 seconds.

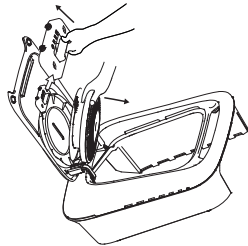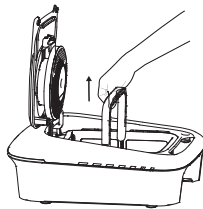0 ←→ OFF/ON ⊙   ◑ WALL ←→ 3
1 ←→ AUTO ●   ◒ FLOOR ←→ 2
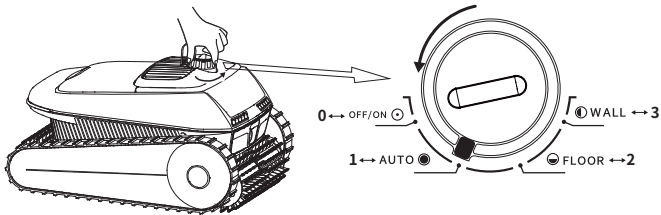
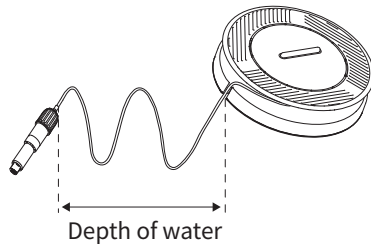## 4.4 Assembling and disassembling the water surface cleaning module

① Unscrew the plug housing connected to the robot.
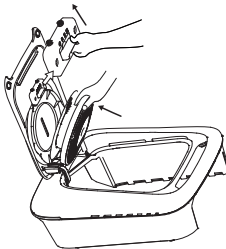
② Unplug the cord connected to the robot.
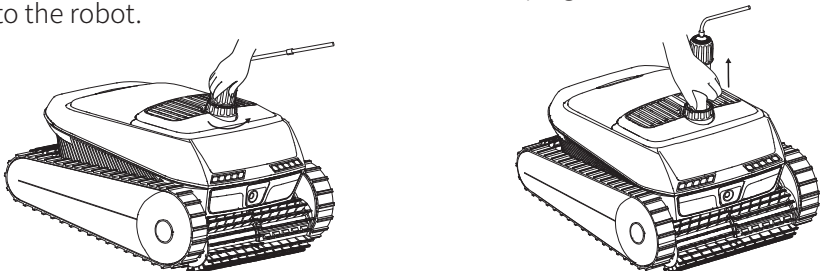
③ Take out the debris basket from the water surface cleaning module.

④ Remove the communication module from the water surface cleaning module.

⑤ Adjust the length of the buoyancy line so it matches the pool water depth.

⑥ Correctly install the communication module to the water surface cleaning module.

Depth of water

Note: Adjusting the length of the buoyancy line to match the pool water depth can improve the efficiency of surface debris removal.

⑦ Clamp the buoyancy line.

⑧ Place the debris basket into the water surface cleaning module.
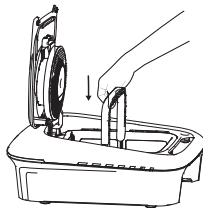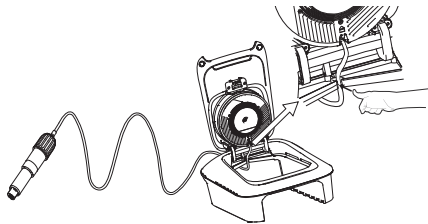
⑨Connect the water surface cleaning module to the robot.

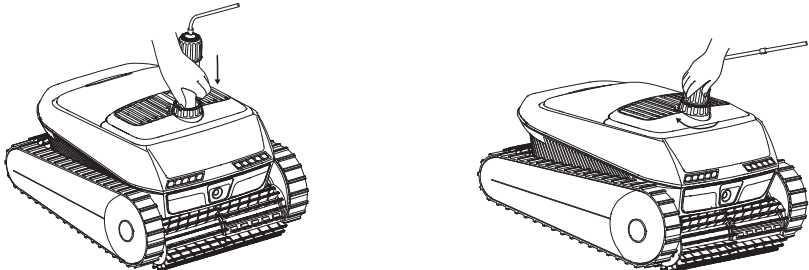## 4.5 Robot works without water surface cleaning module

• You can choose to disassemble the water surface cleaning module according to the actual situation of the swimming pool.The robot will not be able to clean the water surface and cannot be controlled by mobile phones or remote controller.

① Unscrew the plug housing connected to the robot.

② Unplug the cord connected to the robot.
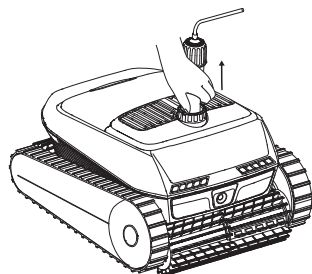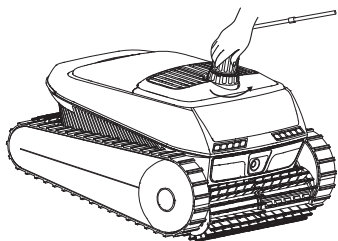
③ Tighten the charging port cover.
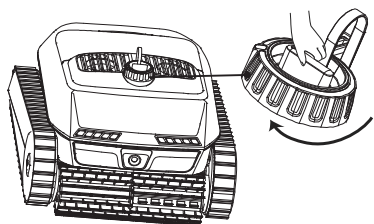
4.6 Placing the robot into the water

① Select the desired cleaning mode, and place the robot in the water as soon as possible.

OFF/ON
WALL
AUTO
FLOOR
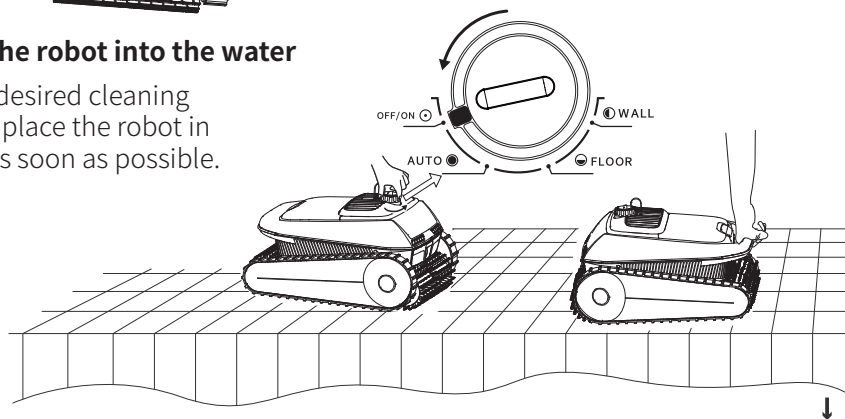
② Slowly put the robot into the water. Then, the robot will release the air in the body and sink to the bottom of the pool.
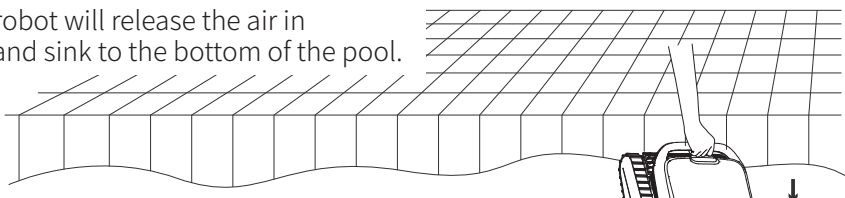
③ The robot will start working within 60 seconds after reaching the bottom of the pool.
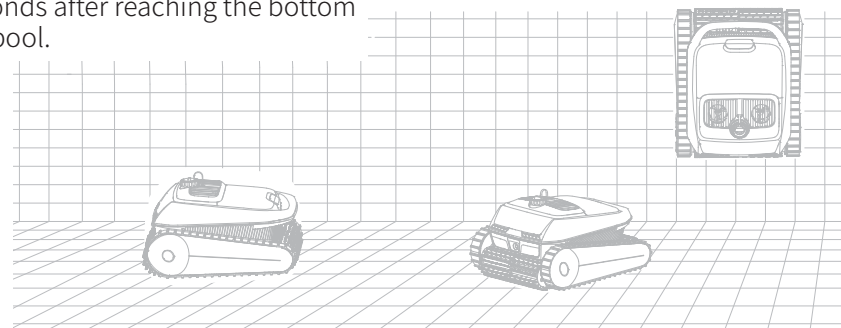
4.7 Removing the robot from the swimming pool

① The robot will automatically stop at the pool waterline after the cleaning task is completed or when the battery level is low. After the robot stops at the waterline, the app will notify you. Please remove the robot from the swimming pool and shut it off as soon as possible.
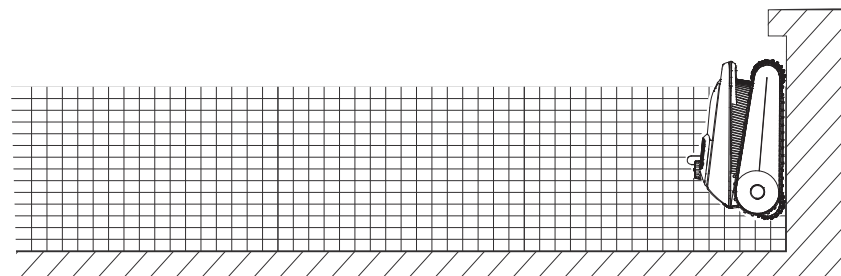
② If the robot has not been removed after staying at the waterline for 3-10 minutes, it will automatically sink and stop at the bottom edge of the swimming pool. Then, you can use the app or remote controller to call the robot to the waterline.
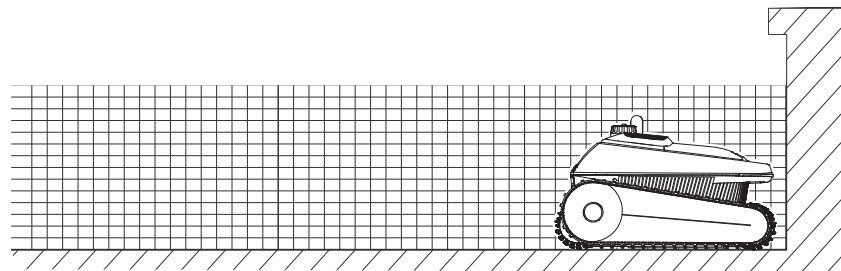
③ When the robot stops at the bottom edge of the swimming pool, use the hook to lift it out of the pool.
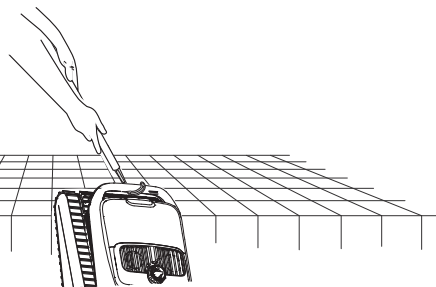
④ Remove the robot from the pool and turn it off.

OFF/ON ⊙   ◐ WALL
AUTO ◉   ◯ FLOOR
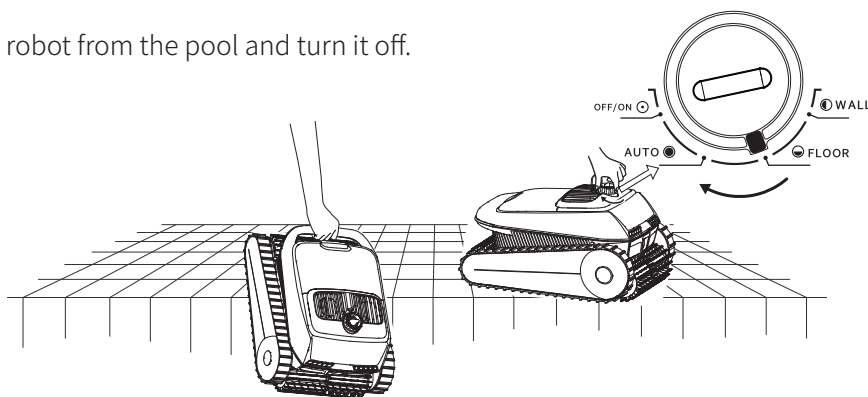
4.8 Cleaning the filter basket

We strongly advise cleaning the filter basket after each cleaning task.

① Open the robot compartment cover.
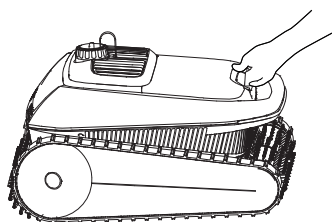
② Remove the filter basket.
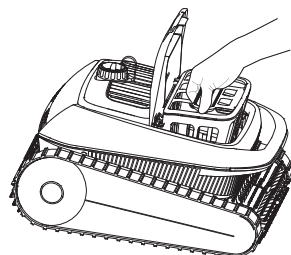
③ Open the filter basket cover and remove the debris.
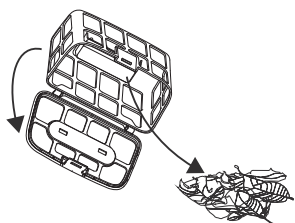
④ Rinse the filter basket.
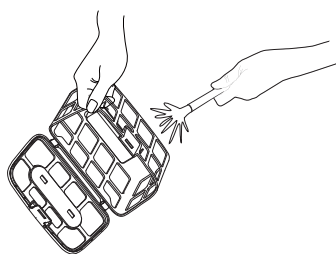
Note: Please clean the filter basket in time.A clogged filter can affect the overall cleaning performance of the robot, making it difficult to generate suction or trap dirt and debris in the filter basket. If cleaning has no effect, the filter basket needs to be replaced.

4.9 Using the Airrobo mobile app

① Search in Google Play or the App Store for "Airrobo," or scan the QR code in the figure below to download the app.
② Sign up and log in to the app.

Q AIRROBO
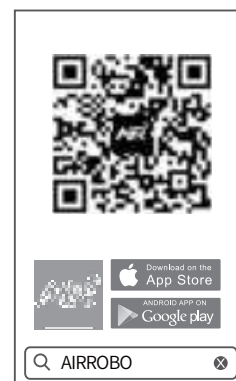
③Connect the device.

Note: Check the following items before the connection:

• Location on your phone is enabled and the app is allowed to access the location.

• Bluetooth on your phone is enabled.

• Wi-Fi signal coverage is good.

• Your phone is close to the robot (within 5 meters) for better connection.

APP   ＜5m
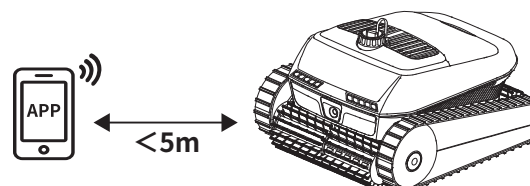
④ Select the cleaning mode.
   Select the cleaning mode you want. Then, the robot will start working in the selected mode.
⑤ Remotely control the cleaning.
   You can remotely control the movement direction of the robot.
⑥ Perform spot cleaning.
   The robot will perform spot cleaning with the current position as the center.

⑦ Recall the robot.

The recalled robot will automatically stop at the pool waterline. Please retrieve it within 3-10 minutes. Otherwise, it will automatically sink and stop at the bottom edge of the swimming pool. You can use the app or remote controller to manually recall the robot again or use the hook to retrieve it.
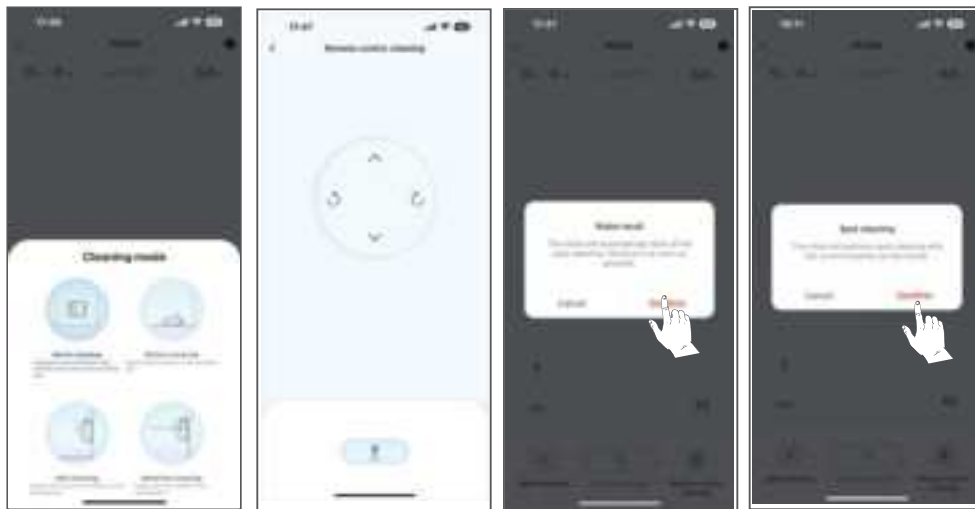
| Select the cleaning mode. | Remotely control the cleaning. | Perform spot cleaning. | Recall the robot. |

Tips：
• The App is currently not compatible with Android tablets and iPads.
• To use the App properly, please turn on Basic Google Services if you are using an Android phone.

4.10 Resetting the device

Note:
After you reset the device, all settings of the robot will be cleared, including the Bluetooth and Wi-Fi connection history.
Rotate in the order of 1-2-1-2-3-2 within 5 seconds.

0 ←→ OFF/ON ⊙   ◑ WALL ←→ 3
1 ←→ AUTO ◉   ◔ FLOOR ←→ 2
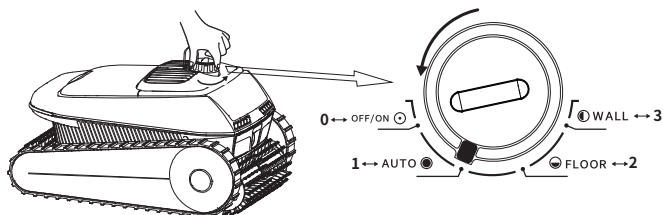
5.Daily Maintenance

For optimal product performance, follow these instructions to maintain the robot.

5.1 After daily use
• Clean the robot and filter basket after each cleaning.
• Keep away from direct sunlight.
• Make sure that the charging port is dry before charging.

5.2 Every 3-4 months or after a deep cleaning cycle (when the pool is dirty)
• Check to make sure that there is no debris in the roller brushes, tracks, and gears.

5.3 Every 12 months or when the robot is found to be working/rotating slowly
• Check the tracks and roller brushes for wear.If they are worn, replace them.

6.Off-season Storage

If the robot will not be used for a long time, perform the following storage steps:
• Thoroughly clean and dry the filter basket, roller brushes, and tracks.
• Ensure that there is no residual water in the cleaner.
• Fully charge the robot before storage. Place it in a well-ventilated, cool place with a temperature between 5°C and 45°C (41°F and 113°F) and a humidity below 80% RH. Avoid direct sunlight, rain, or frost.
• The battery should be charged at least every 3 months to prevent over-discharge.
• Do not leave the robot within the reach of children or people with reduced physical, sensory, or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction.

7.Parts Replacement

7.1 Roller brush replacement
① On the back of the roller brush belt, peel off the silicone buckles fixing the mounting grooves.
② Remove all the silicone buckles, replace the roller brush belt with a new one, align the silicone buckles with the mounting grooves, and press the buckles to fix them in the grooves.
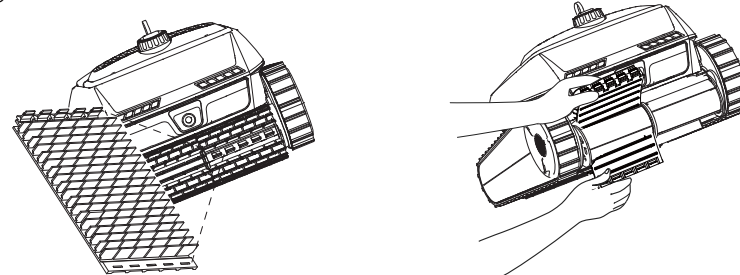
7.2 Track replacement

① Remove the side panels:

Remove the two screw covers. Using a Phillips screwdriver to unscrew the two screws holding the side panels and track panels in place. Remove the side panels and track panels and set them aside.

② Clean: Clean the inside of the side panels and dry them with a paper towel or cloth.

③ Replace: Replace the tracks as required.

Remove the screw cover and unscrew the screws.

Remove the side panels

Remove the tracks

Clean the inside of the side panels

8.FAQs

If an issue persists after the suggested solutions are implemented, contact customer support for assistance.

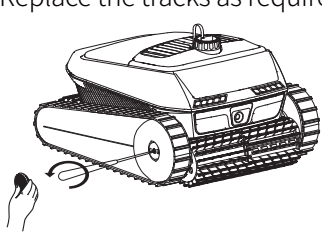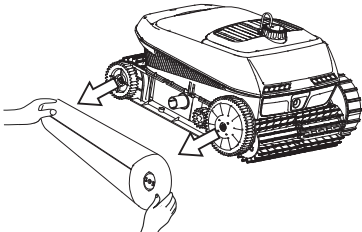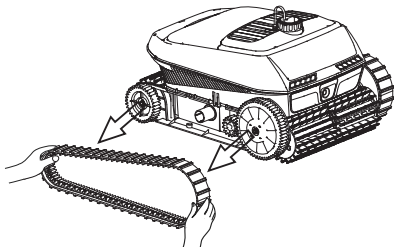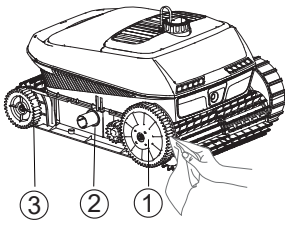| Issue	Possible Causes	Solutions
The robot does not charge.	• The power outlet has no power.	• Check whether the power outlet is working.
	• The power cord is not properly connected to the power outlet.	• Check the connection between the power cord and the power outlet.
	• The connection between tpower adapter and robot is loose.	• Check the connection between the robot and the adapter.

Issue	Possible Causes	Solutions
The robot does not charge.	• The power adapter does not work.	• Check whether the charging LED is displayed when the adapter is connected to the robot. If not, replace the charger.
	• Water entered the charging port.	• Dry the charging port and try charging again.
The robot does not work or the indicator does not turn on.	• The robot does not have enough battery.	• Use the robot after fully charging it.
	• The robot switch fails.	• Try turning the robot off and on again.
The robot does not climb walls.	• The battery is low.	• Use the robot after fully charging it.
	• Check whether the robot works in floor cleaning mode and cleans only the floor.	• Switch to wall cleaning mode.
	• The filter basket is clogged.	• Clean the filter basket.
	• There is algae on the wall and the pH value is not right.	• Check the levels of chemicals in the water. Poor water quality can allow algae to grow, making walls slippery. In this case, adjust the water quality and scrub the walls.
	• The tracks and/or roller brushes are worn.	• Replace the tracks and/or roller brushes.
The robot moves in circles.	• The filter basket is clogged.	• Clean the filter basket.
	• Debris gets stuck on the tracks or roller brushes.	• Remove debris from tracks or roller brushes. See page 8 for parts replacement instructions.
The robot stops underwater and the fault indicator indicates that the motor or water pump is blocked	• Debris gets stuck on the tracks or roller brushes.	• If the motor is stuck, check whether the left/right track can be manually rotated. If not, check for obstructions on the track.
	• Debris blocks the water pump motor impeller.	• If the water pump motor is stuck, check for obstacles on the impellers.
There are water droplets and dirt in the newly purchased robot.	• Every robot has undergone rigorous testing before leaving the factory, including underwater testing. Therefore, there may be a small amount of water droplets or dirt remaining inside. Please feel free to use the robot normally. motor impeller.	• This does not affect the operation of the robot.

9.Declaration of Conformity

9.1 WEEE Disposal and Recycling Information

All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

9.2 FCC compliance statement

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

9.3 FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment . This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body (for Robotic Pool Cleaner) .

9.4 EU RF Exposure statement

This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

9.5 IC Radiation Exposure Statement

• This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body (for Robotic Pool Cleaner).
• Cet équipement est conforme aux limites d'exposition aux rayonnements de la IC établies pour unenvironnement non contrôé. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.
Cet équipement doit être installé et fonctionner à au moins 20cm de distance d'un radiateur ou de votre corps (pour nettoyer de piscine robot).

9.6 ISEDC TO CANADIAN USERS

CAN ICES-3(B)/NMB-3(B)
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
This Class B digital apparatus complies with Canadian ICES-003.
This device complies with RSS-247 of ISEDC. Operation is subject to the condition that this device does not cause harmful interference.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil numérique de la Classe B conforme à la norme NMB‑003 du Canada.

Cet appareil est conforme à la norme RSS‑247 d'ISEDC. Le fonctionnement est soumis à la condition que cet appareil ne provoque pas d'interférences nuisibles.

9.7 EU Declaration of Conformity

Product description: Robotic Pool Cleaner
Type designation(s):PC200，CP400
Hereby we,
Name of manufacturer: Best Epoch Technology Co., Ltd.
Address:2201, Block C1, Nanshan I Park, No. 1001 Xueyuan Road, Nanshan District, Shenzhen City,P.R.CHINA
declare under our sole responsibility that the product described above is in conformity with the relevant Union harmonization legislations:European Directive(Radio Equipment Directive 2014/53/EU,Electromagnetic Compatibility Directive 2014/30/EU)

The following harmonized standards and/or other relevant standards have been applied, which included for Article 3.1a Health, Article 3.1b EMC, Article 3.2 Radio Spectrum, Article 3.1a Electrical Safety requirements:
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A1:2019+A2:2021
ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.2.4 (2020-09)
EN 300 328 V2.2.2 (2019-07)
EN IEC 62311:2020
EN IEC 60335-2-41:2021+A11:2021
EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021
EN 62233:2008

The performed the conformity assessment according to the European Directive, The laboratory issuing the report is Bay Area Compliance Laboratories Corp.(Dongguan).

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Signed for and on behalf of: Best Epoch Technology Co., Ltd.
Place: Shenzhen,China.