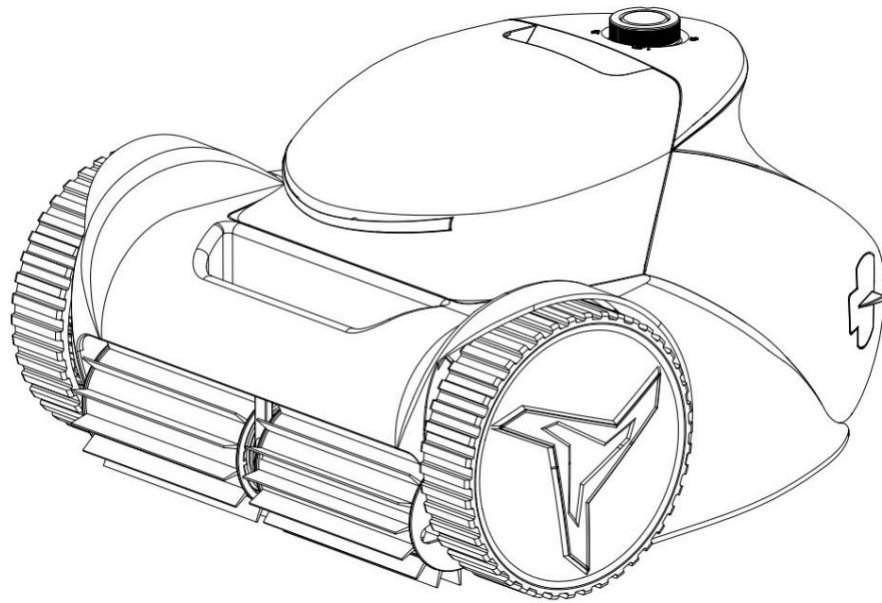


CORDLESS ROBOTIC VACUUM CLEANER USER MANUAL



INVERX - XA20

THANK YOU FOR PURCHASING THE XA20 ROBOTIC POOL CLEANER

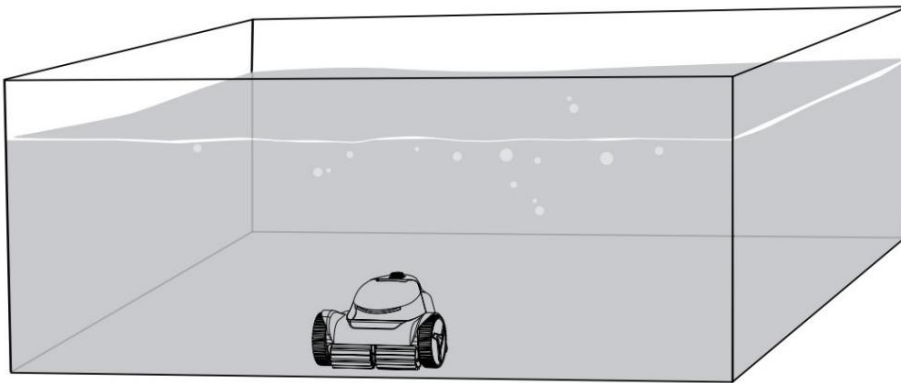
Read the instructions carefully before use and keep for future reference.

★ ★ TIPS ★ ★

Robotic vacuums are designed to keep your pool clean, not to clean it heavily.
polluted swimming pool.

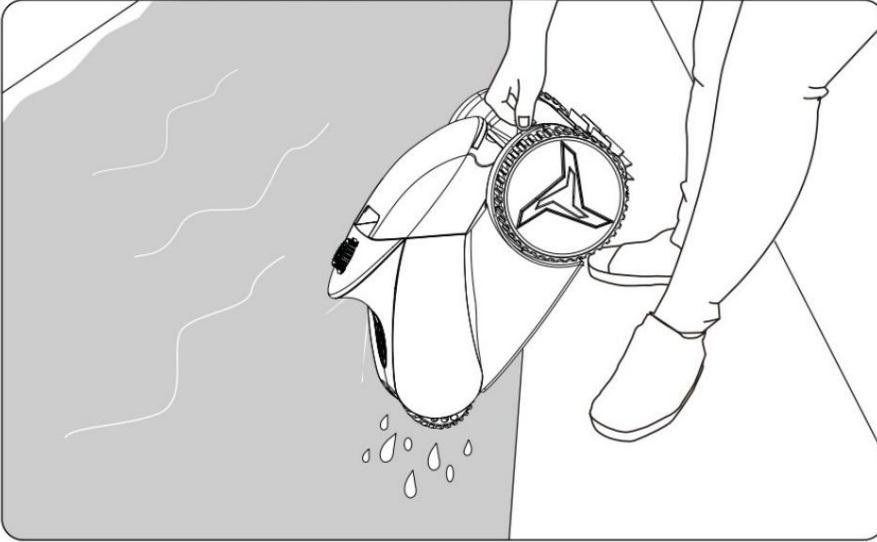
How to achieve the most effective cleaning

By placing the robot at the edge of the pool, you can quickly clean the entire pool bottom area.

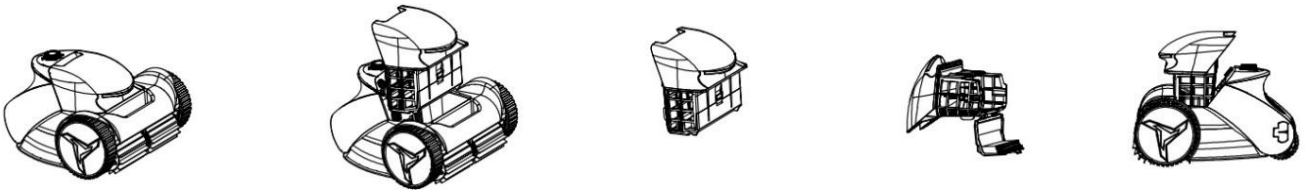


How to drain water from the robot

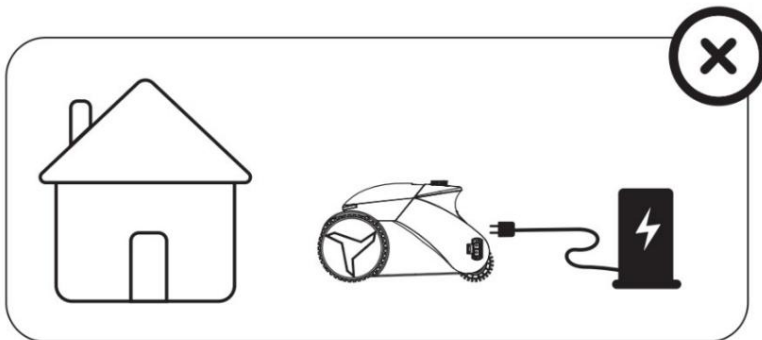
Place the robot on the edge of the pool for a while and let the water drain.



How to remove the filter basket

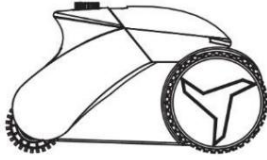


Do not charge the robot outdoors.





Do not expose the robot to sunlight for long periods of time.



NOTICE

This page contains information to help you operate the robot safely, avoid hazards, and damage to the robot or other property.

GENERAL WARNINGS

- Read the operating instructions before using the robot.
- The robot is designed for cleaning swimming pools; do not use it for any other purpose.
- Keep the robot out of the reach of children or persons with reduced physical, sensory or mental capabilities.
abilities without supervision or instruction.
- The robot must be installed, operated and maintained according to the instructions in this manual.
- The robot must be installed in accordance with the manufacturer's instructions and in accordance with the applicable requirements of local or national installation standards. The manufacturer is not responsible for any result related to failure to follow the installation instructions.
installation, use or maintenance.
- Incorrect installation or use of the robot may cause serious property damage or personal injury.
- Do not enter the pool while the robot is in the water.

WARNINGS FOR USE

- Only use the power adapter supplied with the robot to charge the battery. We recommend charging away from
at least 3.5 meters from the edge of the pool.
- Before performing any maintenance on the robot, disconnect it from the power supply and check that the power switch is off.
- In the event of a malfunction, do not attempt to repair the robot yourself or open the motor housing, contact your
seller.
- If any malfunction occurs during charging or the robot emits an odor, immediately disconnect it from the
power supply and contact your dealer.
- For service and repairs, use only original spare parts supplied by the manufacturer.

GENERAL OPERATING CONDITIONS

Depth range water (m)	Water temperature(°C)	PH	NaCl(PPM)	Chlorine (PPM)
1-2.5	4-35	7.0-7.8	5kg/1m ³ Max.	4 MAX

Note: Water temperature lower than 15°C may affect the battery (robot) life.

- The robot is recommended for private pools.
- The robot will automatically stop if the water depth is less than 40 cm to protect the motor.
- Do not use the robot during shock chlorination.
- Do not use the robot during thunderstorms or stormy weather.
- Do not expose the robot to direct rain or sunlight for extended periods of time.

NOTICE

- Before removing the robot from the pool, hold it at the edge of the pool to allow the water to drain out slowly,
to prevent back injuries.
- Clean the filter basket after each cleaning cycle.
- Do not pull the robot out of the water using the brush roller.

REMARK

- If the robot's battery level is below 30%, the robot only cleans the floor.
- If the robot fails to climb over a wall five times in a row in Bottom/Wall/Waterline mode, it will automatically
switches to Bottom mode:

- Storing the robot:
 - a) Make sure the robot is completely dry before storing. This will prevent degradation or damage.
engine or internal structure.
 - b) The filter basket should be cleaned thoroughly after use and no dirt or residue should be allowed to dry in it.
 - c) The charging cable must be stored neatly and without being twisted during long-term storage.
- The optimal storage temperature is between -10-45°C and the storage humidity is between 30-70%/RH.
- In bottom mode, the robot cannot operate at a 30° incline.

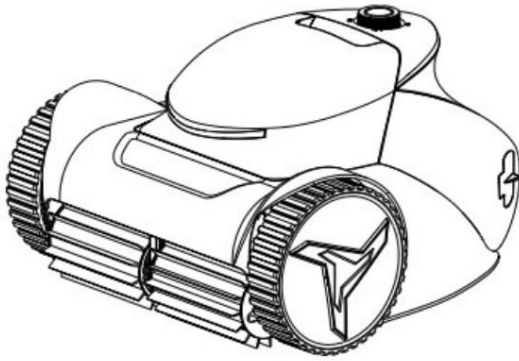
Contents

1. PRODUCT OVERVIEW.....	9
1.1. Package contents	9
1.2. Technical specifications.....	10
1.3. Preparation.....	11
2. OPERATION.....	12
2.1. Control panel overview	13
2.2. Operation on the device display	15
2.3. Cleaning the filter basket	17
2.4. Charging the robot.....	18
3. MAINTENANCE.....	19
3.1. Filter basket	19
3.2. Impeller maintenance.....	19
4. TROUBLESHOOTING	21

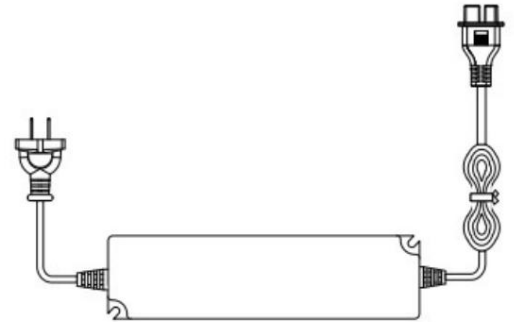
1. PRODUCT OVERVIEW

1.1. Package contents

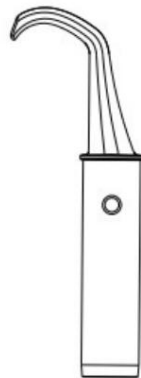
The robot package includes the following items. In case of damage or losses, contact your dealer.



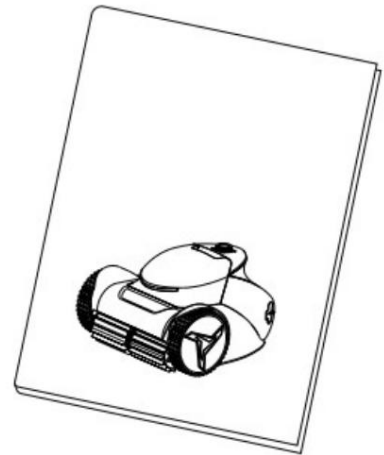
①



②



③



④

• Robot • Charger • Hook • User Manual

Note:

The power must be on when the robot is operating or charging. When the robot is not in use, turn off the power to protect the battery.

1.2. Technical specification

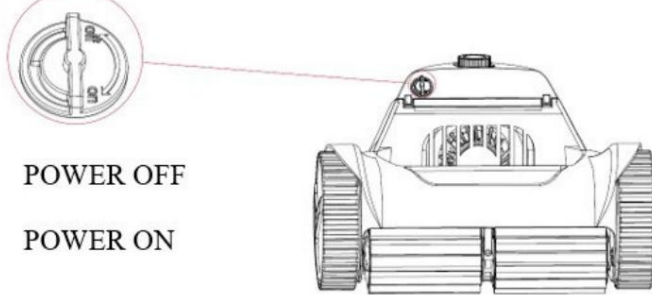
Model	XA20
Battery life conditions reference*: Bottom mode	
Shelf life	2.0 hours
Charging time	3.5 hours
Battery	5.0Ah
Pool size	6 × 10 m
Optimal pool temperature	4 ~ 35°C
Cleaning mode	Bottom only; Bottom/Walls/Waterline
Cleaning time	1 hour / 1.5 hours / Max
Filter capacity	3.2 liters
Filtration accuracy	120 μm
Pump flow	15 – 20 m3/h
Operating performance	20 – 100W
Movement speed	12 m/min
Number of engines	3
Charger input	240V AC ~ 50/60Hz
Operating voltage/current	25.5V / 1A
Robot weight	6.5 kg
Robot dimensions (L*W*H)	440*400*238mm
Robot packaging dimensions (L*W*H)	504*450*300mm

Reference cleaning time: In “Bottom Only” mode 30 min, pool 4x8m

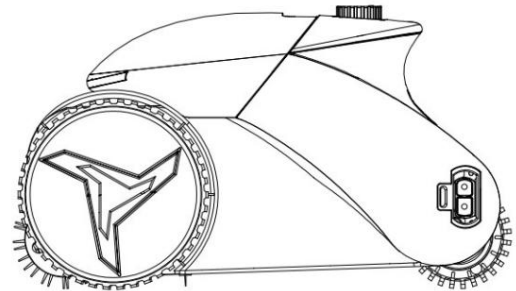
Note: The manufacturer reserves the right to change these specifications without prior notice.
notice.

1.3. Preparation

• Power switch.



• Remove the plug cover. After completely
After charging, cover the plug again. Do not immerse
the robot into water without putting the cover on
charging port back onto the robot.

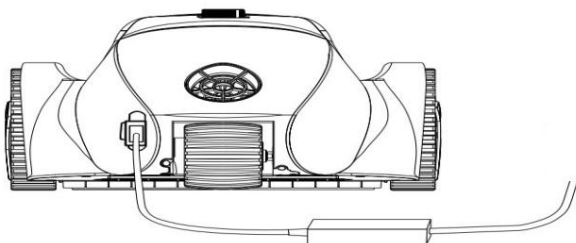


• Connect to power (240V) using the supplied
chargers.

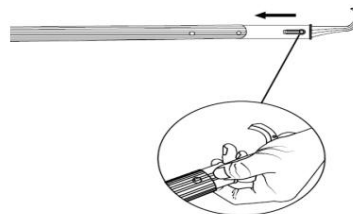
The battery level is displayed on the battery bar,
If all three lights are on, it is fully charged. 
charged. (When charging, pressing the button will display
battery status).

Fully charge the robot before using it for the first time.

* Recommended charging temperature: 6-35°C. (If
temperature higher than 50°C, the robot will not charge.)



• Install the included hook on the pole (pole not included)



2. Operation



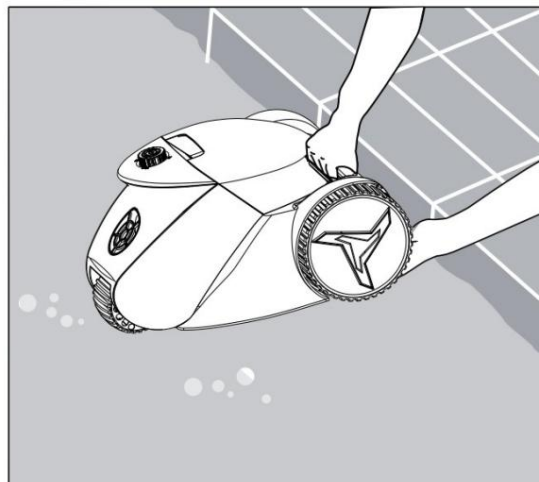
ATTENTION

To prevent possible damage to the robot or people, follow these instructions:

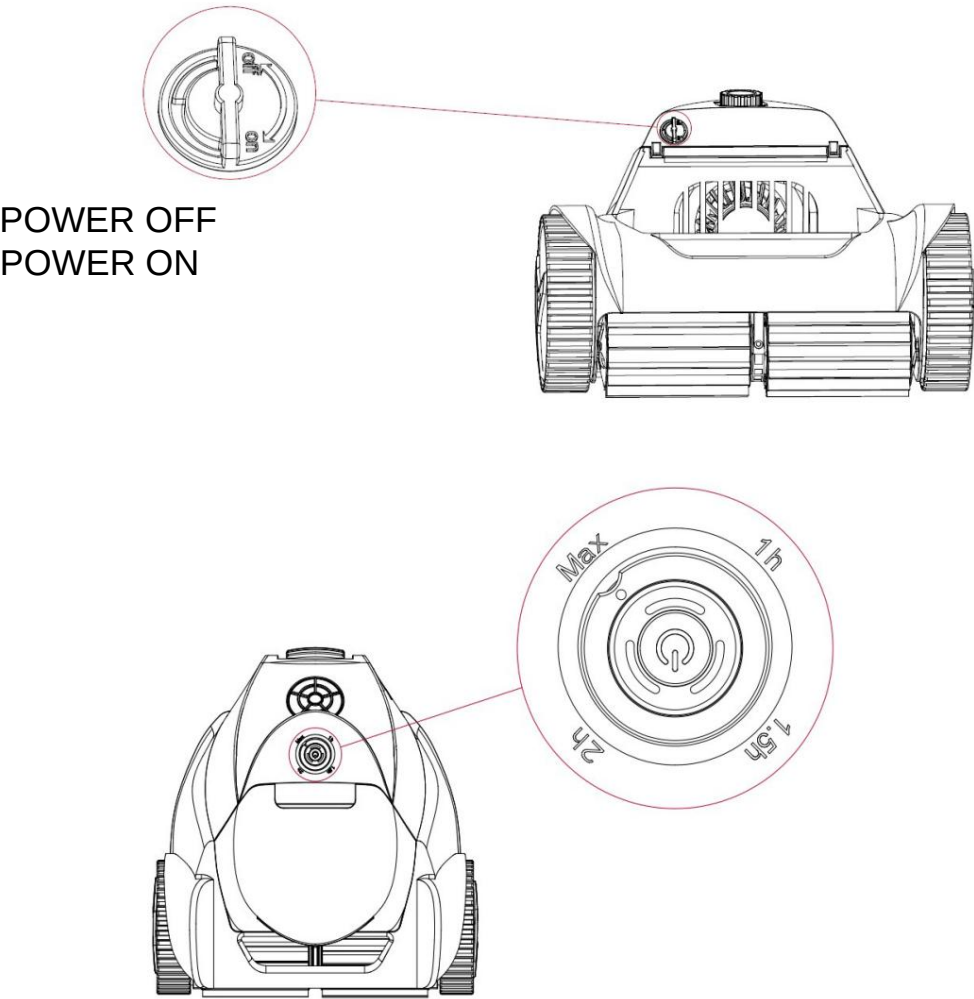
- After cleaning, store the robot in a cool, dry place out of direct sunlight.
- Before removing the cleaner from the pool, carefully lift it and drain the water.

IMPORTANT

- After setting up the robot, drop it into water for 3 minutes, otherwise it will go into sleep mode.
- After the cleaning cycle is complete, clean the filter basket. Do not clean the surface of the filter basket with a hands.
- The robot is equipped with a safety function that automatically stops operation if the depth water less than 40 cm. When placing the robot in the pool water, make sure it is completely submerged, then rotate the robot in all directions to release all the water before entering the water.
air trapped in the robot



2.1. Control panel overview



The following description shows that the robot is in the ON operating state:

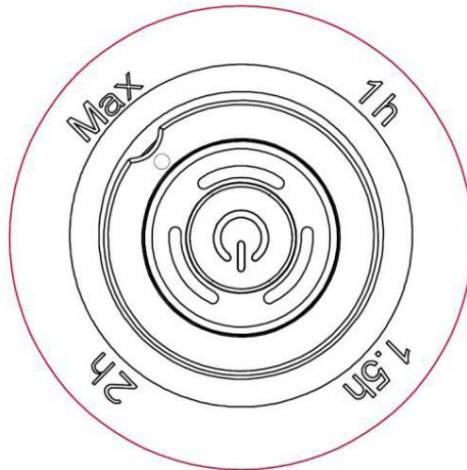
Button	Icon	Display status	Description
Switch power supply		The indicator light (green/blue) is flashing	Setting status
		The indicator light is off.	Sleep/power off state power supply
		The indicator light is on.	Operating condition / inspection condition underwater

Cleaning time		Arrow pointing 1h	Cleaning time: 1 hour
		Arrow pointing 1.5h	Cleaning time: 1.5 hours
		Arrow pointing 2h	Cleaning time: 2.0 hours
		Arrow pointing to Max	Cleaning until the battery runs out
Cleaning mode		Green light is on	Bottom cleaning mode
		Blue light is on	General cleaning mode (Bottom, walls, waterline)
Indicator light battery (state) without charging)		1 indicator light is on	Battery charge level: 30-40%
		2 lights are on	Battery charge level: 40-70%
		3 lights are on	Battery charge level: 70-100%
Low battery		1 light flashes	Battery charge level below 30%
Indicator light Battery (Charging status)		3 lights flash in a cycle	Charging
		3 green lights are on	Battery charge level 100%

Error		1 flashing red light (Left)	Left unit failure
		1 flashing red light (Right)	Right unit failure
		1 flashing red light (Lower)	Water pump failure
		2 flashing red lights (Left and lower)	Gyroscope malfunction
		2 flashing red lights (Left and right)	Water sensor failure

2.2. Operation on the device display

1. Turn on the power, the robot will beep and the indicator light will start flashing (the default cleaning mode is Bottom mode - green light) and you can start working with the settings.
Press the button to select the cleaning mode, turn the button to select the cleaning time,
Align the arrow on the knob with the time you want to select, as shown below.
Once the setup is complete, place the robot in the pool and it will automatically start cleaning after touching the pool bottom.
If no operation is performed within three minutes of the indicator light flashing, the robot stops working and goes into sleep mode. By briefly pressing the robot button
You wake up in sleep mode.

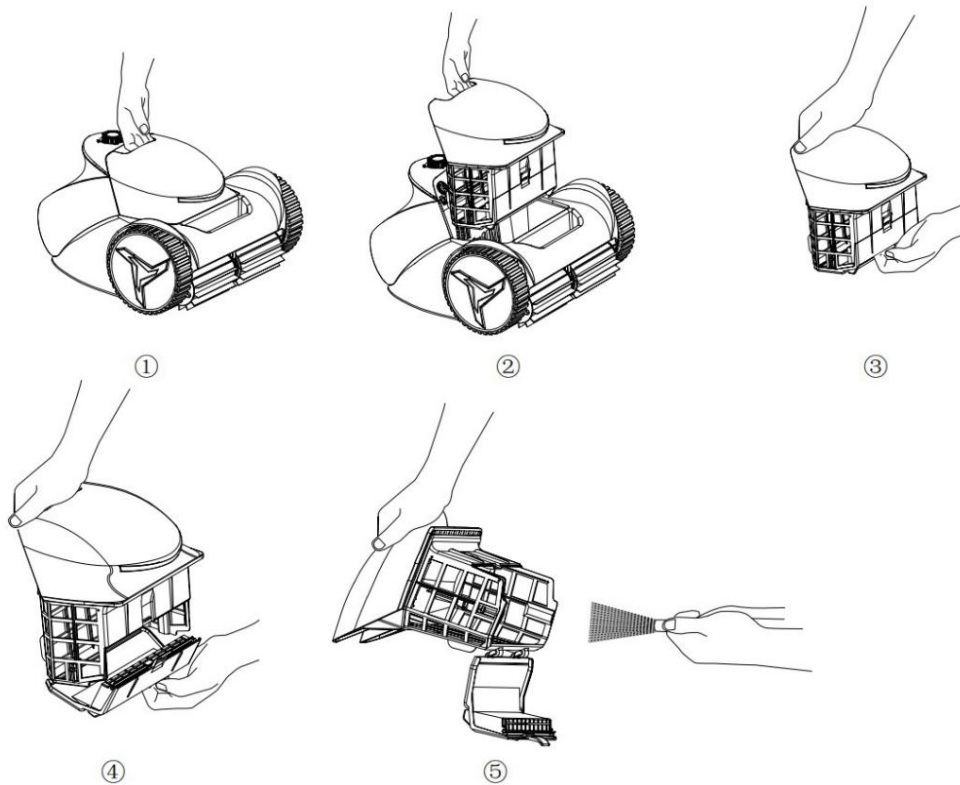


Note: Make sure the arrow on the knob is in line with the set cleaning time.
If the arrow is not in the correct position at the set time, the cleaning time will be subordinate to the left side of the arrow.

2. If the battery level is below 15% during a cleaning cycle, one light will flash indicator light, the robot will park itself on the side of the pool and after 3 minutes will go into sleep mode.

2.3.Cleaning the filter basket

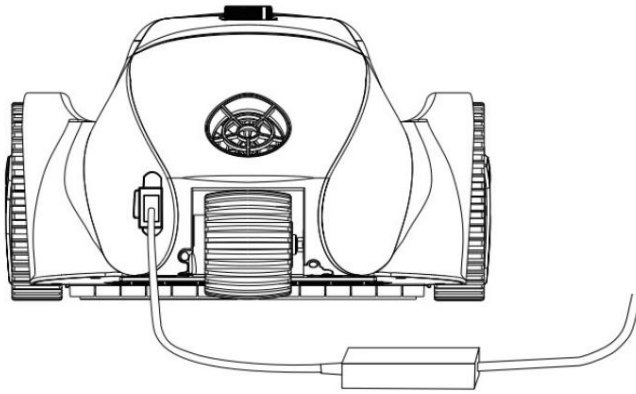
After the cleaning cycle is complete, the robot will park itself against the pool wall. Use the hook to grab the handle, Lift the robot out of the water, drain the water and clean the filter basket as shown in the picture below:



Note:

To prevent injury, wear rubber gloves when cleaning the filter basket.

2.4. Charging the robot



1. Remove the charging port cover. The charging port cover will remain attached to the robot body - the cover
Do not unscrew the charging port.
2. Make sure the charging port and charger are dry before charging.
3. First connect the charger to the robot and then to a 100 - 240V power source. When the battery indicator light
on the robot flashes in a circle, the robot is charging.
4. When the robot's battery indicator shows 3 green bars, it is fully charged.
5. After the robot is fully charged, turn off the power at the wall, disconnect the charger from the robot and from the power source.
power. Store the charger in a safe place. To protect the battery, do not leave the charger
connected to the robot after charging is complete.
6. Put the cover back into the robot's charging port.
7. If the robot is not used for a long time, it should be fully charged at least once every three months,
to protect the battery.

Note: Only use the original charger to charge the robot. Using another charger will result in
loss of warranty.

3. MAINTENANCE

WARNING

To prevent electric shock and other hazards that could result in serious injury, injury, unplug the adapter from the power source before performing any cleaning or maintenance. Turn off the power switch before performing any maintenance to prevent injury. caused by the rotation of the impeller.

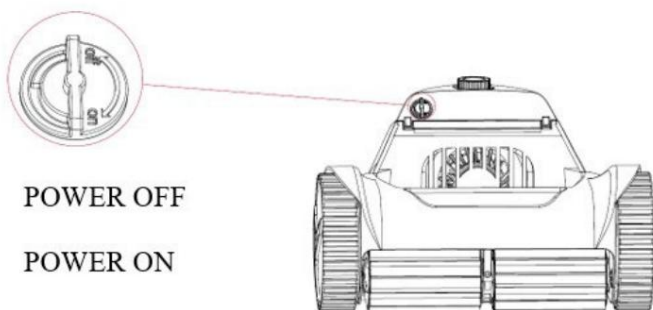
3.1. Filter basket

1. For better cleaning and better climbing performance of the robot, clean the filter thoroughly and regularly. Otherwise, cleaning and climbing performance may be affected, if the filter is full or clogged.
2. Clean the clogged filter annually with a mild acidic detergent. When cleaning wear suitable protective clothing

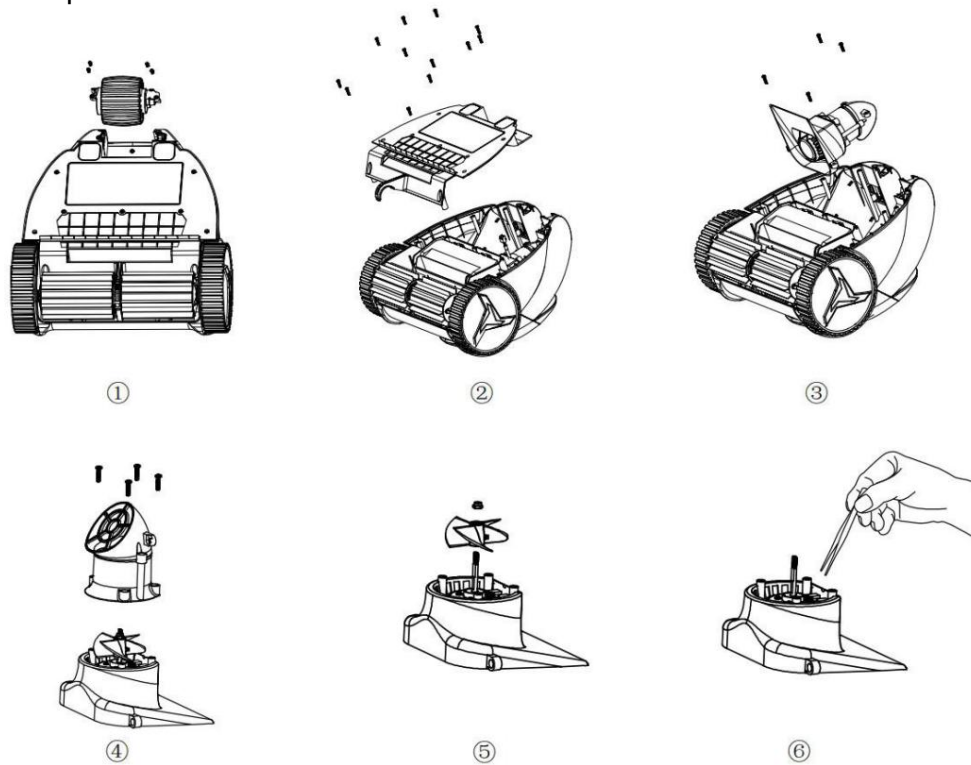
3.2. Impeller maintenance

Visually check for hair entangled in the impeller or impeller shaft or other debris. If the robot has reduced suction or climbing performance, clean the debris caught in the impeller.

*** The power switch MUST be turned off before any impeller maintenance.**



Follow these steps:



• Unscrew the rear wheel mounting bolt and remove the rear wheel.

• Unscrew the bottom cover fixing screws and remove the bottom cover.

• Unscrew the water pump motor cover fixing screws.

• Unscrew the screws that secure the air deflector and remove the deflector
air.

• Unscrew the impeller fixing screws and remove the impeller.

Note: Wear gloves when removing the impeller to prevent injury from
sharp edges.

• Clean the impeller from dirt and reassemble all the above parts in order.
assemble.

Note: In case of problems with impeller maintenance, contact your dealer who will advise you.
will help.

4. TROUBLESHOOTING

Failure	Possible reason	Solution
Disorder charging	Dirt on the charging electrode heads (without malfunction)	Cleaning up dirt
	The temperature is higher than 50 °C	Place the robot in an environment with a temperature of 6 ~ 35 °C.
	The charging kit is damaged.	Replacing the charging kit
Failure power on	The power switch is off.	Turn on the power
	Incorrect operation (failed)	Hold the button  for 3 seconds
	The battery is not charged.	Fully charging the robot
Not working (does not move, does not filter)	Battery flat (no fault)	Fully charging the robot
	Out of water (no malfunction)	Make sure the robot is underwater and the lights are on.
	Heavily clogged filter basket	Clean the filter basket
It moves, but does not filter	The impeller is stuck.	Check that there is not too much dust in the guide ring. many impurities that affect the rotation of the impeller. (Turn off the power before starting operation to avoid injury caused by the rotation of the impeller).
	Heavily clogged filter basket	Clean the filter basket
	The water supply is blocked (without disorders)	Remove the filter basket and clean the water inlet.
	Battery flat (no fault)	Fully charging the robot
Filters but does not move	The engine is stuck.	Contact your dealer for replacement.
	The belt is deflected (no fault)	Turn the robot upside down and roll the belt forward and backwards to put it in the correct position.
	The belt is damaged.	Replacing belts
	Stuck brush (no fault)	Clean the brush
	The robot gets stuck in an obstacle and shuts down due to automatic protection (without disorders).	Remove the obstacle and start again.
	Heavily clogged filter basket	Clean the filter basket

Doesn't climb walls	In bottom cleaning mode (no fault)	Switching to general cleaning mode
	The impeller is stuck.	Check that there is not too much dust in the guide ring. many impurities that affect the rotation of the impeller. (Turn off the power before starting operation to prevent injury caused by the rotation of the impeller).
	Heavily clogged filter basket	Clean the filter basket
	The water supply is blocked (no fault)	Remove the filter basket and clean the water inlet.
Bad ability cleaning	Battery flat (no fault)	Fully charging the robot
	The impeller is stuck.	Remove any dirt or hair in the guide ring.
	Heavily clogged filter basket	Clean the filter basket
	Blocked water supply (without disorders)	Remove the filter basket and clean the water inlet.
	Damaged brush	Brush replacement
	The filter basket is damaged.	Replace the filter basket
Unusual non-stop	Software failure	Turn the power off and on.
Error	a. Left drive failure b. Right drive failure c. Water pump failure d. Infrared sensor failure e. Water sensor failure	Turn the power off and on and check if the error disappears, if not, contact your dealer.

Note:

1. Do not use the cleaner when there are people or animals in the pool.
2. The charger **MUST be** unplugged before any maintenance on the robot .
3. For problems not listed in the Troubleshooting Guide,
contact the dealer.
4. Normally, the robot will stop at the pool when a fault occurs or when the condition is
battery level below 15%.
5. If the robot is not working properly, the indicator light on the control panel flashes red. Restart.
The robot can clear the error warning and allow operation. If the error occurs again, refer to the
troubleshooting guide.

Indoor use



For indoor use only with a switched power supply.

Recycling



The robot contains a lithium-ion battery that should be recycled by qualified battery electronics recyclers.

Recycling batteries and products containing batteries benefits the environment and human health.

DO NOT DISASSEMBLE the battery or throw it in the trash or municipal waste.

Warranty exclusions

The warranty is void if any of the following conditions apply:

- Incorrect operation of the device due to failure to follow the correct instructions.
- Damage to the robot caused by improper use or damage caused by other than through manufacturer's defect.
- If the robotic pool cleaner is repaired or serviced by an unauthorized dealer or service station.
- If an unauthorized service station has damaged the battery seal.
- If you overcharge the battery using a power adapter other than the designated input power adapter
- If you cause a malfunction in the operation of the machine by using non-specified accessories

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