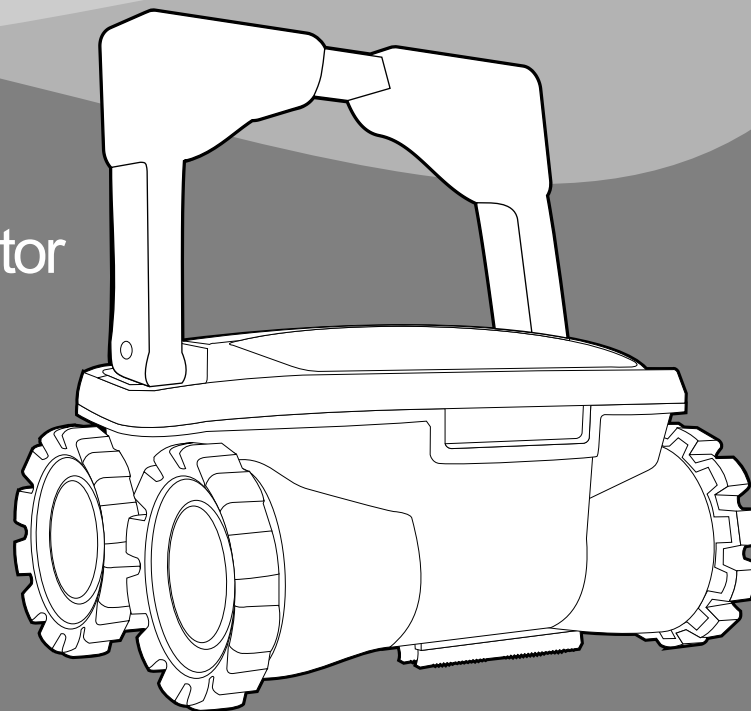


Operating Instructions

Robotic Pool Cleaner
With Integrated Salt Chlorinator



BK 0014400

ENGLISH

IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL THE INSTRUCTIONS

CAUTION: Do not plug the power supply into a grounded outlet or do not switch the pool cleaner "ON" if it is not fully immersed in water. Operating the cleaner out of water will cause severe damage immediately and will result in loss of warranty.

Allow the cleaner to remain in the pool for 15 to 20 minutes following the end of its cleaning cycle. This will allow the motors to cool adequately. Do not leave the cleaner in the pool all the time. Always remember to turn the power supply "OFF" and unplug it from the power outlet before removing the cleaner from the pool.

WARNING: The cleaner must not be used when people are in the water. For use with swimming pool only

Safety Note

- The unit must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA
- The connection to the branch circuit should be consistent with the local and national wiring rules (electrical code).
- Mishandling of the unit can result in leakage of lubricants.
- If the supply cord is damaged, it must be replaced by the manufacturer's service agent or a qualified and trained person in order to avoid hazards.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



WARNING: A Ground Fault Current Interrupter (GFCI-USA) or a Residual Current Device (RCD-EUROPE) must be installed to protect your electric outlet and prevent any possible electric shock.

SAVE THESE INSTRUCTIONS

Dear Customer,

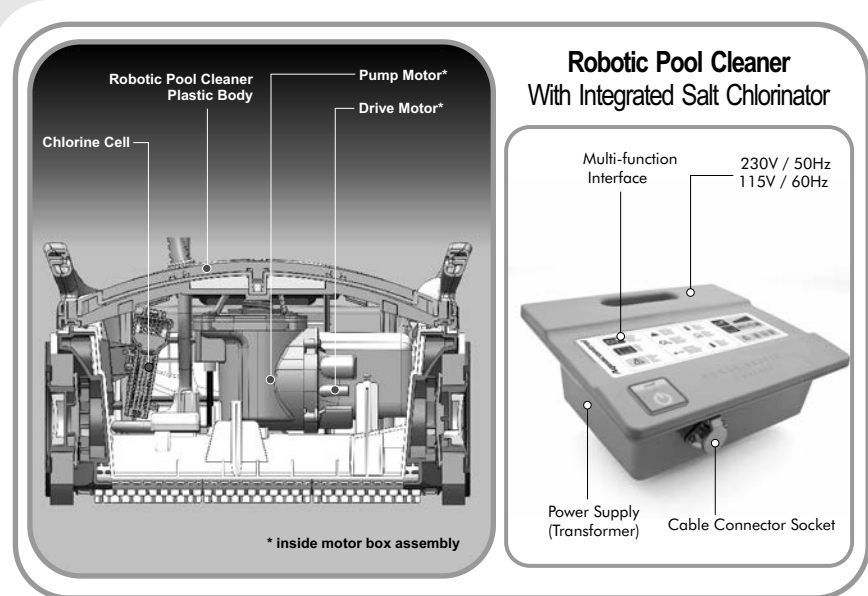
Thank you for choosing our product for your pool. We hope that you will enjoy using your new robot to clean and sanitize your swimming pool for years to come. Before you begin to use your robot, please take a few minutes to carefully read these operating instructions.

How does the system work:

The unit uses a compact electrolytic cell to produce chlorine from sodium chloride (salt). The salt is added into the pool in advance by the pool owner. The chlorination process occurs as pool water passes between a series of titanium plates which make up the cell. These plates pass low current between them causing an electro-chemical reaction leading to the production of chlorine.

Once the power supply is plugged in to the outlet, the robot will begin to sanitize (chlorinate) the pool. The robot will automatically clean the pool intermittently throughout the sanitizing cycle. This allows for proper sanitizer distribution and thorough cleaning throughout the day. The multi-function user interface is located on the power supply and displays the chlorination time and notifies the user about system status. This interface has indication LED lights indicating whether the robot is cleaning and/or sanitizing.

If at anytime you choose to run a complete cleaning cycle, press the mode button and switch into cleaning mode.

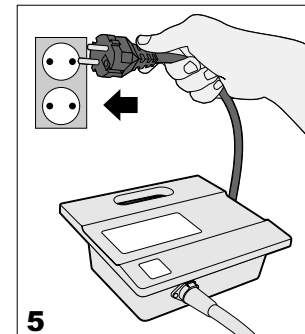
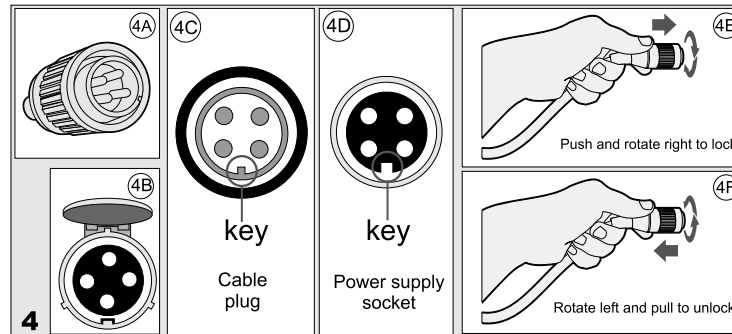
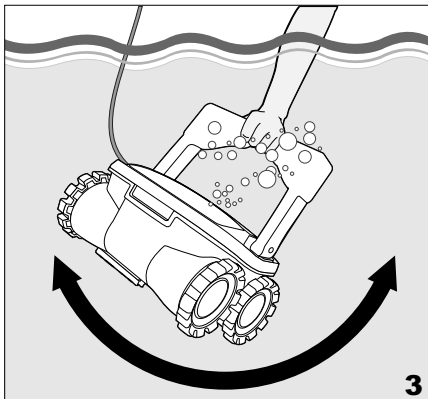
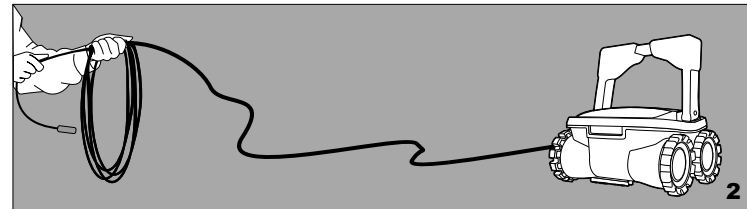
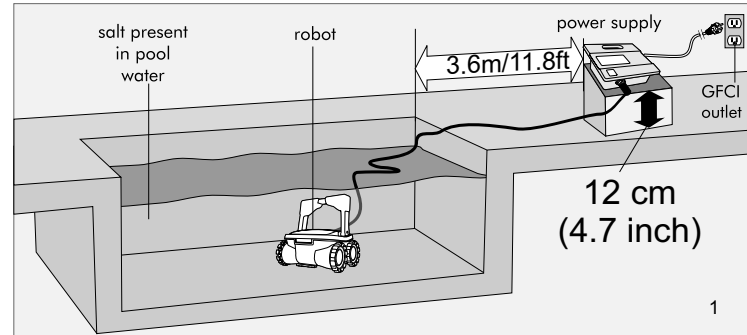


Operating the Pool Robot

Your New Robotic Pool Cleaner contains:

- The robotic pool cleaner which includes the chlorination system
- The special Power Supply (Transformer)

1. Check the salt level in the pool. The salt level needs to be a minimum of 3500 PPM (*refer to salt table on the next page*).
2. Place the power supply (transformer) at least three meters / ten feet from the pool and uncoil the cable (fig.1, 2). The power supply will provide low voltage to the robot.
3. Place the robot in the water. Turn the robot side to side in the water to allow air to escape from the body and then let the robot sink to the bottom of the pool (Fig.3). Then, spread the cable over the surface of the pool as evenly as possible (Fig.1).
4. **Plug the cable into power supply (Fig. 4):**
 - Prepare plug as seen in (Fig. 4C) with key exactly as shown.
 - Align key from cable plug with corresponding key on the power supply socket (Fig. 4D).
 - Push plug into the socket of the power supply, once plug is in, rotate the plug to the right to lock it in place (Fig. 4E).
 - To remove the plug, rotate to the left to unlock, then pull out (Fig. 4F).
 - Plug power supply into a grounded outlet. Insure that the electrical outlet has been grounded (Fig. 5)
 - Press the ON/OFF button on the power supply to begin operating the robot in Combo Mode.



Sanitizing (Chlorinating) Operating Instructions

Adding SALT to the pool:

- Before adding salt, make sure the robot is unplugged and outside of the pool.
- Measure the existing salt level in the pool. Some pools may have residual salt from years of liquid chlorine use.
- Determine how much salt is needed to achieve **3,500 PPM** (Parts per Million). **See Salt Table below.**
- When adding salt, turn on the pool pump for 24 hours in order to keep the pool water circulating.
- Add salt directly to the pool making sure the salt is spread evenly. Brush the pool bottom to help dissolve the salt. Wait a minimum of 8 hours before testing again. **For optimum operation**, check salt level once per week.

Salt Table: Amount of salt needed to achieve **3500 ppm** level in your pool.

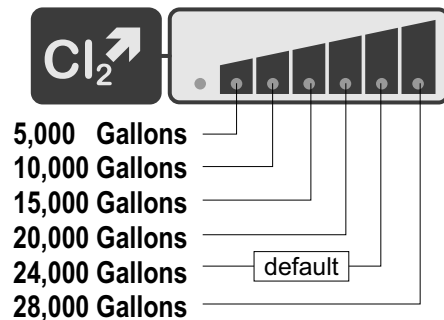
NOTE -This table works based on the current salt level in your pool.

If your measurement shows 0 salt in the pool please reference the column with a "0" in it.

Pool Size in Gallons/ (Cubic Meters)	Salinity (ppm) measured in pool							
	0	500	1000	1500	2000	2500	3000	3500
4,000 (15m ³)	117 lbs/ (53 kg)	100 lbs/ (45 kg)	83 lbs/ (38 kg)	67 lbs/ (30 kg)	50 lbs/ (23 kg)	33 lbs/ (15 kg)	17 lbs/ (8 kg)	0
6,000 (23m ³)	175 lbs/ (79 kg)	150 lbs/ (68 kg)	125 lbs/ (57 kg)	100 lbs/ (45 kg)	75 lbs/ (34 kg)	50 lbs/ (23 kg)	25 lbs/ (11 kg)	0
8,000 (30m ³)	234 lbs/ (106 kg)	200 lbs/ (91 kg)	167 lbs/ (76 kg)	134 lbs/ (60 kg)	100 lbs/ (45 kg)	67 lbs/ (30 kg)	33 lbs/ (15 kg)	0
10,000 (38m ³)	292 lbs/ (132 kg)	250 lbs/ (114 kg)	210 lbs/ (95 kg)	170 lbs/ (76 kg)	125 lbs/ (57 kg)	85 lbs/ (38 kg)	42 lbs/ (19 kg)	0
12,000 (45m ³)	351 lbs/ (159 kg)	300 lbs/ (136 kg)	250 lbs/ (114 kg)	200 lbs/ (91 kg)	150 lbs/ (68 kg)	100 lbs/ (45 kg)	50 lbs/ (23 kg)	0
14,000 (53m ³)	409 lbs/ (185 kg)	351 lbs/ (159 kg)	292 lbs/ (132 kg)	235 lbs/ (106 kg)	175 lbs/ (79 kg)	117 lbs/ (53 kg)	58 lbs/ (26 kg)	0
16,000 (61m ³)	467 lbs/ (212 kg)	401 lbs/ (182 kg)	335 lbs/ (151 kg)	270 lbs/ (121 kg)	200 lbs/ (91 kg)	135 lbs/ (61 kg)	67 lbs/ (30 kg)	0
18,000 (68m ³)	526 lbs/ (238 kg)	451 lbs/ (204 kg)	375 lbs/ (170 kg)	300 lbs/ (136 kg)	225 lbs/ (102 kg)	150 lbs/ (68 kg)	75 lbs/ (34 kg)	0
20,000 (76m ³)	584 lbs/ (265 kg)	501 lbs/ (227 kg)	420 lbs/ (189 kg)	335 lbs/ (151 kg)	250 lbs/ (114 kg)	167 lbs/ (76 kg)	83 lbs/ (38 kg)	0
22,000 (83m ³)	643 lbs/ (291 kg)	551 lbs/ (250 kg)	459 lbs/ (208 kg)	367 lbs/ (167 kg)	275 lbs/ (125 kg)	184 lbs/ (83 kg)	92 lbs/ (42 kg)	0
24,000 (91m ³)	701 lbs/ (318 kg)	601 lbs/ (273 kg)	501 lbs/ (227 kg)	401 lbs/ (182 kg)	300 lbs/ (136 kg)	200 lbs/ (91 kg)	100 lbs/ (45 kg)	0
26,000 (98m ³)	759 lbs/ (344 kg)	651 lbs/ (295 kg)	542 lbs/ (246 kg)	434 lbs/ (197 kg)	325 lbs/ (148 kg)	217 lbs/ (98 kg)	108 lbs/ (49 kg)	0
28,000 (106m ³)	818 lbs/ (371 kg)	701 lbs/ (318 kg)	584 lbs/ (265 kg)	467 lbs/ (212 kg)	351 lbs/ (159 kg)	234 lbs/ (106 kg)	117 lbs/ (53 kg)	0




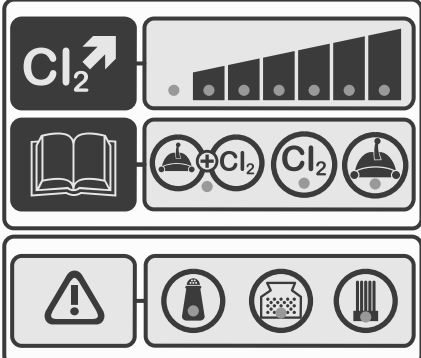





Adjusting the (Cl²) Chlorine Output on the Power Supply

The Cl²(Chlorine Output) can be adjusted at any time. Each pool has its own chlorine demand based on volume, weather conditions, cleanliness, number of bathers, etc. The default level is set to handle a 24,000 gallon (91 m³) pool. Each LED referencing the Cl² represents a predetermined amount of chlorination time. Therefore, the more LEDs illuminated the higher the Chlorine Output.



Sanitizing (Chlorinating) - Operating Instructions

Aquacontrol

 <p>Chlorine output Niveau de chlore Nivel del cloro Uscita cloro Chlorgehalt Produção de cloro</p>	 <p>Cleaning mode Mode de nettoyage Modo en limpieza Modalità di pulizia Reinigungsmodus Modo de limpeza</p>	 <p>Check cell Vérifier la cuve Verifique la celda Verifica cella Zelle überprüfen Verificar célula</p>	
 <p>Mode Modalità Modo Modus Modo Mode</p>	<p>Cl₂</p> <p>Chlorination Mode Mode de chloration Modo en cloro Modalità di clorazione Chlorungsmodus Modo de cloração</p>	 <p>Check filter Vérifier le filtre Verifique el filtro Verifica filtro Filter überprüfen Verificar filtro</p>	
 <p>Warning Avertissement Advertencia Avviso Warnung Advertência</p>	 <p>Combination Mode Mode combinaison Modo en combinacion Modalità di combinazione Kombinationsmodus Modo de combinação</p>	 <p>Check salt Vérifier taux de sel Verifique la sal Verifica salinità Salzmenge prüfen Verificar sal</p>	

Power Supply Overlay

Push buttons for overlay



Adjustment chlorine production level



Select mode

- Combination mode – robot cleans and produces chlorine
- Chlorine output mode – robot produces chlorine only
- Cleaning mode – Robot cleans the pool for 1 complete cleaning cycle (approximately 90 min.)

Warnings



Check salt level in the water



Check filter



Check cell

Shocking Your Pool

At some point, you may need to shock your pool. The system is not designed to disperse large amounts of chlorine at one time. See your local dealer for the correct shock additive for your pool.

To shock your pool:

- 1) (IMPORTANT) Remove your unit from the pool before shock treatment. Leaving your robot in the pool while shocking will void the warranty.
- 2) Add shock additive per manufacturer instructions.
- 3) Return the unit to the pool only when pool is safe for swimming.

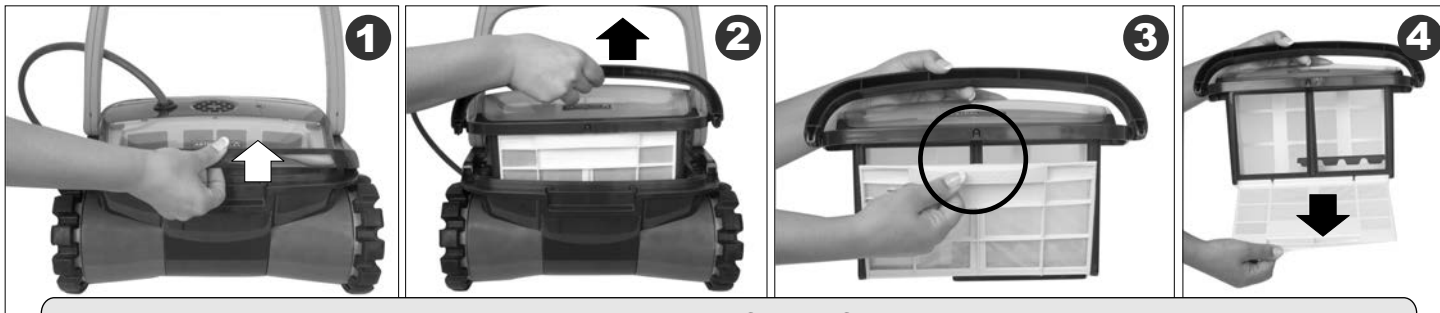
The system has a built-in combo mode

The unit will turn itself ON every day in order to sanitize and clean the pool. Once you plug the power supply into the outlet, the robot remembers the exact time of day and will work at that same time each day. If you would like to choose the time of day to run your unit, simply plug in the power supply into the outlet at the time of day you desire.

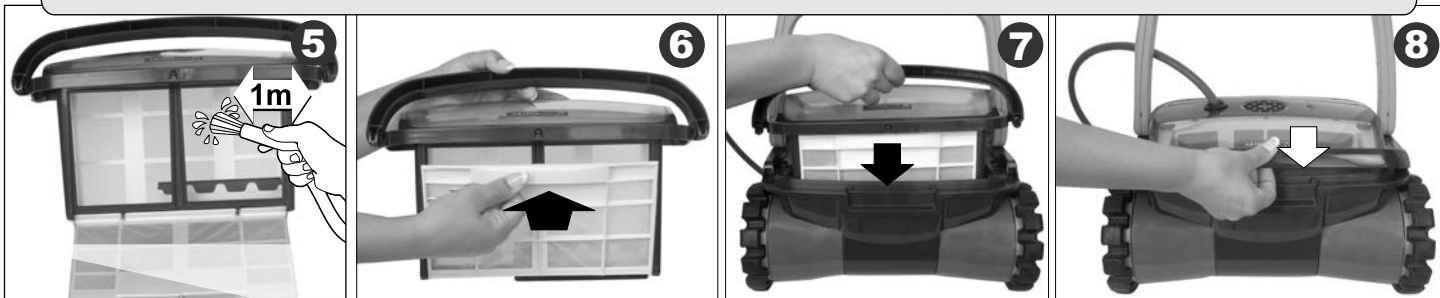
Power Outage:

In the event of a power outage, it may be necessary to once again re-adjust your timer by plugging in the robot at the time of day you desire. If you don't choose to re-adjust the timer, the robot will work each day at the time of day when power was restored.

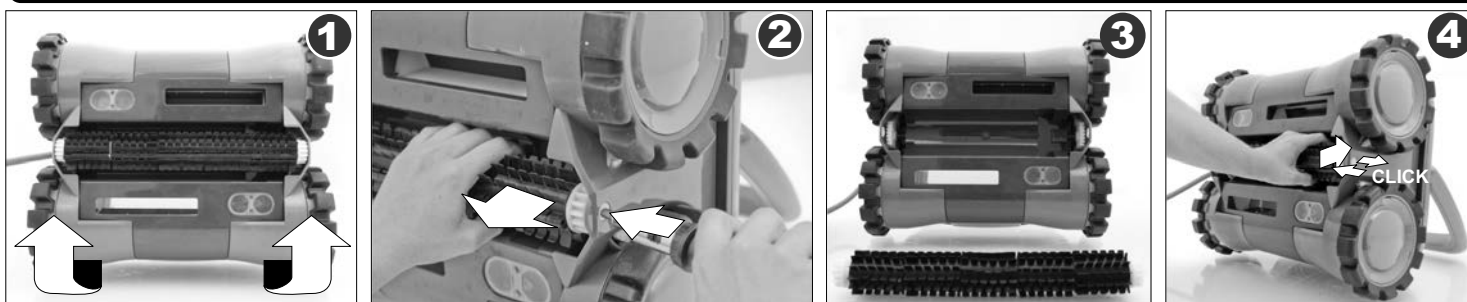
Cleaning the filter



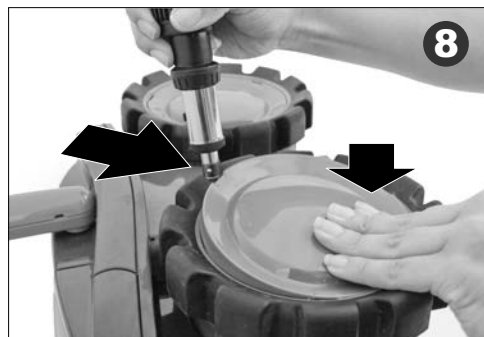
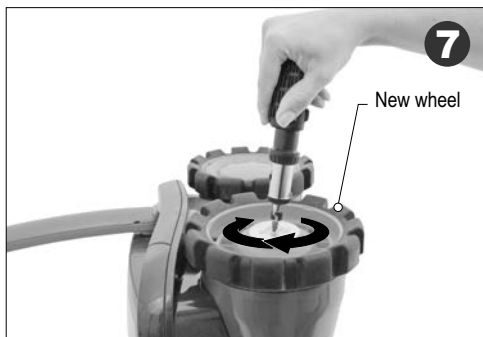
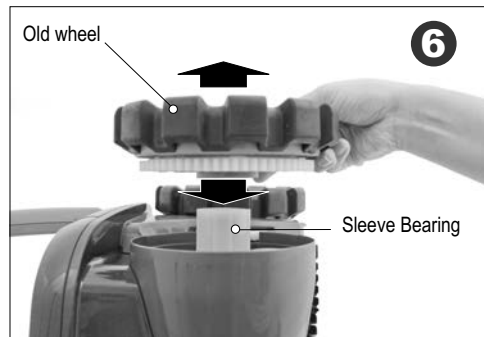
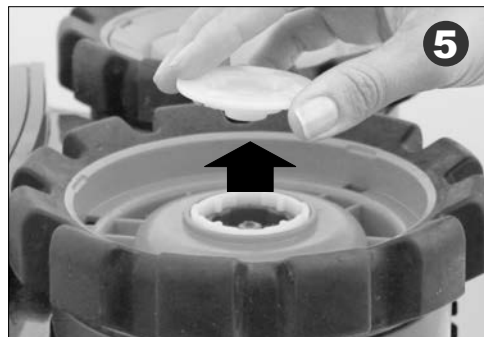
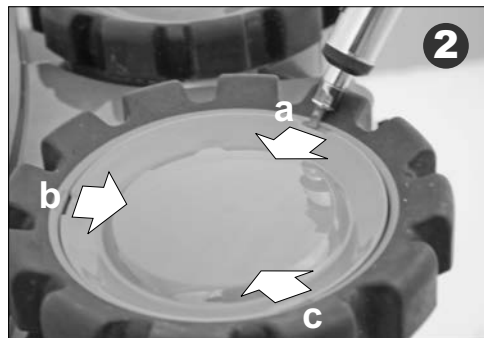
It is recommended to clean the filter after each working-cycle



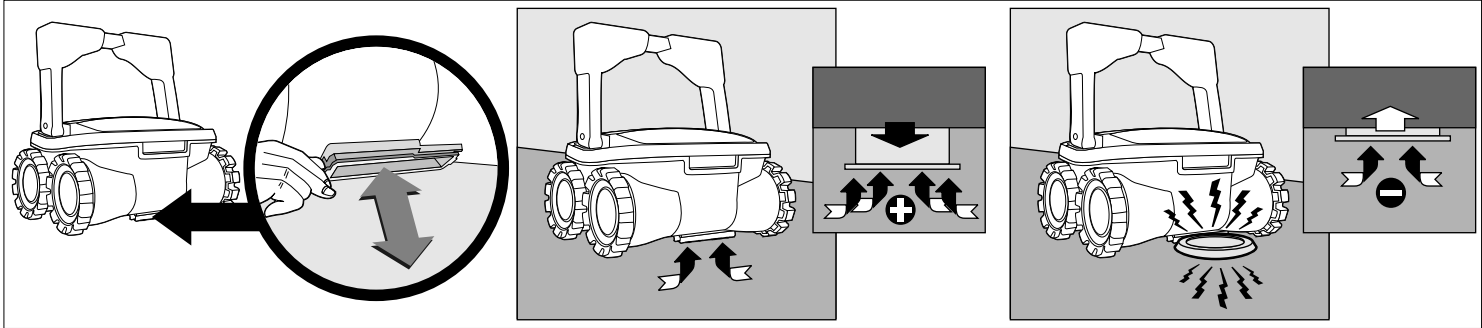
Changing the rolling brush



Replacing the wheel



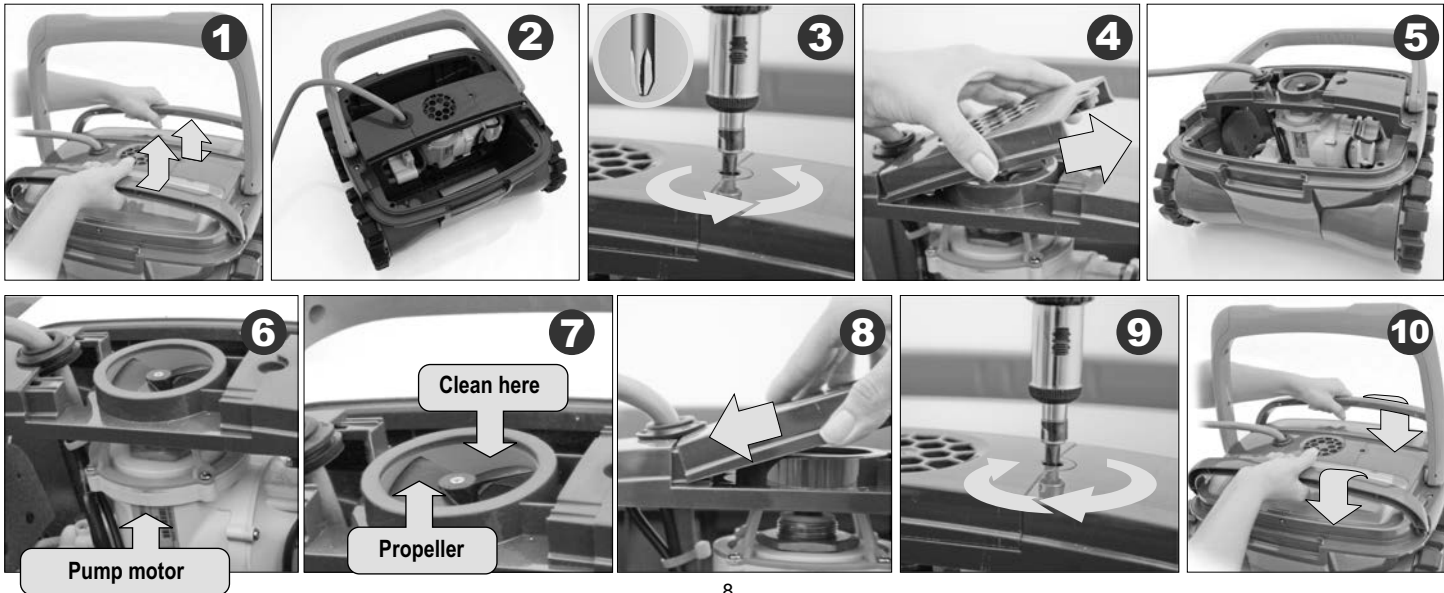
Telescoping intake valve adjustment



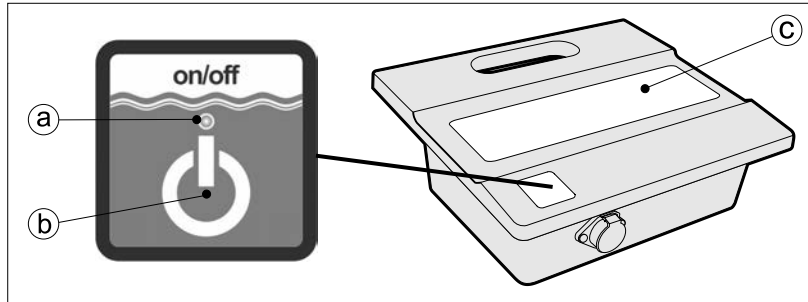
Accessing and cleaning the propeller



DISCONNECT THE ROBOT FROM THE POWER-SUPPLY BEFORE PERFORMING THIS ACTION



Operating the pool cleaner - Power button



a. Power LED

The blue LED flashes when the power supply is in standby mode and lights continuously when the pool cleaner is operating.

b. "POWER" button

The button switches between "ON" and "STANDBY".

c. Power Supply Overlay

IMPORTANT- After the selected mode has commenced, the pool cleaner will automatically go to "standby". In case you want to turn the machine off during the working cycle, press the "power" button once and the LED will start flashing, indicating that the machine has stopped running.

After a **Manual** clean cycle, the unit will default back to **Combo** mode. To automatically clean every 72 hours **without** chlorine, reduce the chlorine output to first LED + switch to "**Combo**" mode.

Important Tips

- Shut off and unplug the power supply every time you remove the cleaner from the water.
- It is recommended to clean the filter after every cycle.
- Periodically straighten out the floating cable.
- Save your cleaner's packaging for off-season storage or for shipping the unit to your dealer if service is required.
- **Do not leave your cleaner in direct sunlight when not in use.**
- **Never leave the power supply in direct sunlight and avoid leaving it in the rain.** Occasionally, you should rinse your cleaner in clean, fresh water. This will lengthen the service life of your cleaner.
- Clean the propeller once a month

ERROR SIGNALS



Filter compartment full

Clean the filter compartment



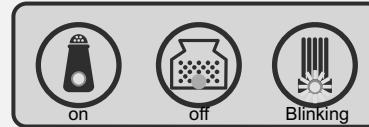
Replace Cell

Cell life has surpassed the recommended hours



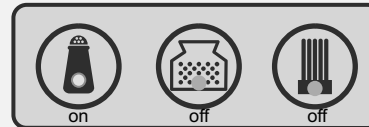
Low Salt

The pool most likely needs salt but can also be an issue with the cell



Critical low salt level

Probably very low salt level but could also be nearing the end of cell life



High Salt Level

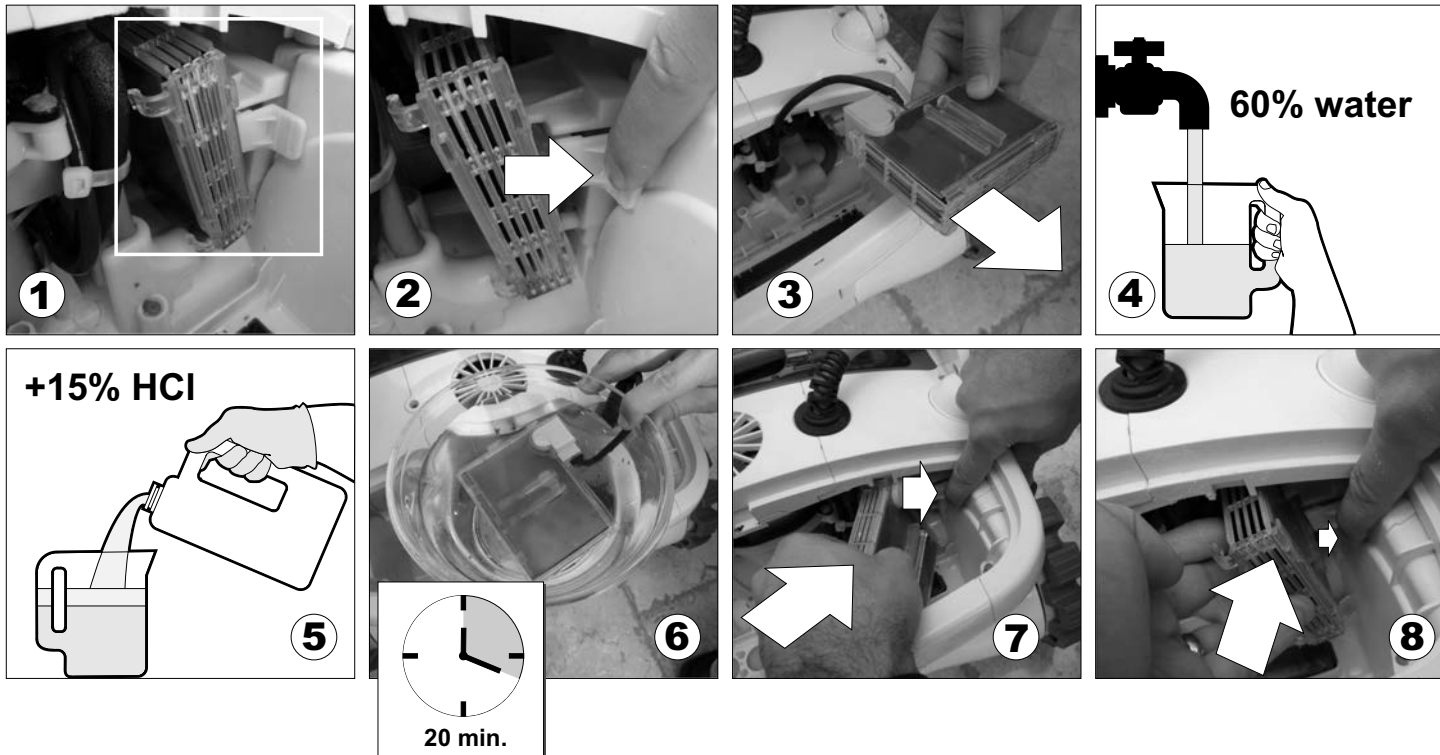
Cell seems to be OK. Make sure salt level is in the proper range.

Cleaning the cell

The cell should be checked periodically for calcium deposit. In order to eliminate the calcium, the cell should be removed from the robot (Fig. 12&13). Calcium can be easily removed with water pressure and using hand cleaning.

If the calcium deposit is excessive, the cell should be placed into a cup of diluted muriatic acid or regular strength white vinegar. ALWAYS ADD ACID TO WATER and not the other way around.

1. Take a large cup and fill it 60% with water (Fig. 4).
2. Add acid until the cup is 75% full (Fig. 5). Be sure not to fill the cup too high to prevent overflow when cell will be inserted.
WARNING: Always wear Latex gloves and eye protection when handling acid!
WARNING: Always add acid to water. DO NOT add water to acid!
3. Insert the cell into the solution (Fig. 6).
WARNING: Do not attempt to disconnect the cable from the cell! Cleaning procedure has to be done with the cell attached to the cable.
4. Wait for the solution to stop bubbling (20 mins).
5. Rinse cell with fresh water and insert back into the robot (Fig. 8).



Your unit is designed to Clean and Chlorinate your pool.

You will still need to check the chemistry of your pool regularly.

The table below shows the recommended balanced levels for normal pools. Maintaining these levels will provide a safe and enjoyable pool environment. If your water chemistry is not in balance, contact an authorized dealer (pool professional) or pool store and they can provide you with the proper chemicals and procedures.

FACTORS	RECOMMENDED LEVELS
Salt	3000 to 4000 ppm (Parts per Million)
Free Chlorine	1 to 3 ppm (Parts per Million)
pH	7.2 to 7.8
Total Alkalinity	110 to 180 ppm (Parts per Million)
Stabilizer (Cyanuric Acid)	60 to 80 ppm (Parts per Million)
Nitrates	0 ppm (Parts per Million)
Metals	0 ppm (Parts per Million)
Phosphates	0 ppm (Parts per Million)
Calcium Hardness	Level established for each pool surface

Troubleshooting Guide for Chlorination

Evaluating the possible cause for each problem from top to bottom will avoid any extra labor or downtime

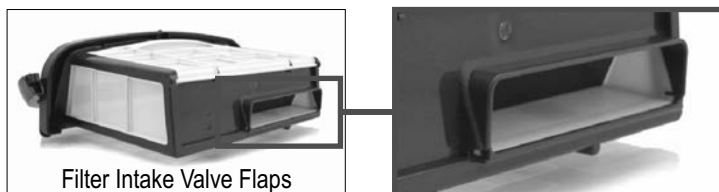
Problem	Possible Causes	Possible Solutions
Chlorine level low, or no chlorine	A. Chlorine generator is OFF B. Low Salinity C. Chlorine output too low D. Low stabilizer E. Chemical imbalance	1. Are any of the Cl ² LEDs illuminated? 2. Check the salinity level. Make sure it is at least 3500 PPM. 3. Increase the Cl ² output then re-check chlorine level after 24 hours 4. Check stabilizer(CYA) level. Make sure it is between 60-80ppm 5. Check pool chemistry and balance accordingly or consult a pool professional
Green pool water	A. Chlorine level too low B. Chemical imbalance	1. Increase the LEDs of the Cl ² output and then re-check chlorine level 2. Check pool chemistry and balance accordingly or consult a pool professional
Cleaner stopped & No chlorination	A. No power feed to the power supply unit.	1. Check floating power cord connection 2. Check GFCI receptacle and circuit breaker
Salinity high	A. Too much salt added to the pool	1. Drain some pool water and refill the pool with fresh water and re-check. Salt level should not exceed 4500 PPM.

Troubleshooting Guide for Cleaning

PLEASE CHECK THE FOLLOWING BEFORE CALLING YOUR SERVICE CENTER

Before troubleshooting, the pool cleaner must be disconnected from the power supply and the power supply must be unplugged from the electrical outlet to prevent damage to the unit and possible personal injury.

Problem	Possible Causes	Possible Solutions
Unit does not pump water or move	A. Unit is unplugged B. No power to the PSU C. Debris stuck on the prop	1. Check to see if electric outlet has power 2. Check if transformer is plugged into a grounded outlet and the cable assembly is plugged into the transformer 3. Switch the power supply "OFF" and "ON" a few times. Allow 45 seconds between "ON" and "OFF" 4. Check for and remove any debris such as hair, string, or leaves that may be obstructing the free movement of the wheels or propeller.
Unit does not pump water at all, or pumps slowly but moves	A. Debris stuck in the prop B. Filter is too full C. Pump is not functioning	1. Check to see if propeller is seized due to accumulation of hair or debris on the propeller. Remove the top screw on the outlet top and clean the propeller. When reassembling the top cover, do not over tighten the screw. 2. Check to see if the filters are thoroughly clean. Clean as necessary. 3. If "a" and "b" are negative, check the pump motor. If pump is not functioning send the unit to your service center.
Unit does not move but does pump water	A. Debris stuck in the wheels B. Debris stuck in the gears C. Broken Wheel D. Motor is not functioning	1. Check to see if forward/reverse motion is obstructed by foreign matter, hair, debris, etc. on wheels or there is an entanglement with the power cord. 2. Check if there is no debris stuck inside the wheel between gears. 3. Verify if the rolling brush is properly positioned and not broken. The brush is transferring the rotation to the wheels and –if broken – the robot will not move properly 4. Check the motor, if not functioning, send the unit to your service center.
Unit does not pick up dirt and debris	A. Pump is not working B. Intake not in the correct position C. Intake flaps are stuck	1. Check to see if the propeller is seized due to accumulation of hair or debris on the propeller. 2. Check to see if the filters are thoroughly clean. Clean as necessary 3. Check the filter intake valve flaps on the underside of your unit. The flaps should move freely to open and close. Clean and free the valve flaps if necessary.
Unit does not seem to cover the entire pool	A. Filter is dirty or full B. Floating cable is tangled C. Unit is shut off before cleaning cycle is finished	1. Most likely a thorough cleaning of the filter is needed. 2. Check to see if that the floating cable is properly spread out and is untangled. 3. Allow the unit to run in the pool in cleaning mode for the entire clean cycle. 4. Check that the motor is operating. 5. After checking all of the above, if there is still a problem, call your dealer for specific additional assistance.
Debris comes out of the unit when removing from pool	A. Filter is not closed properly B. Intake valves are stuck	1. Filter lock lever (top access lid does not close properly) – check that the lock release mechanism is not damaged. The lid edges should be aligned with the unit's body and the top filter is properly locked. 2. Intake valves – check that filter intake valves flaps move freely to open and close. Clean flaps if necessary.



Filter Intake Valve Flaps