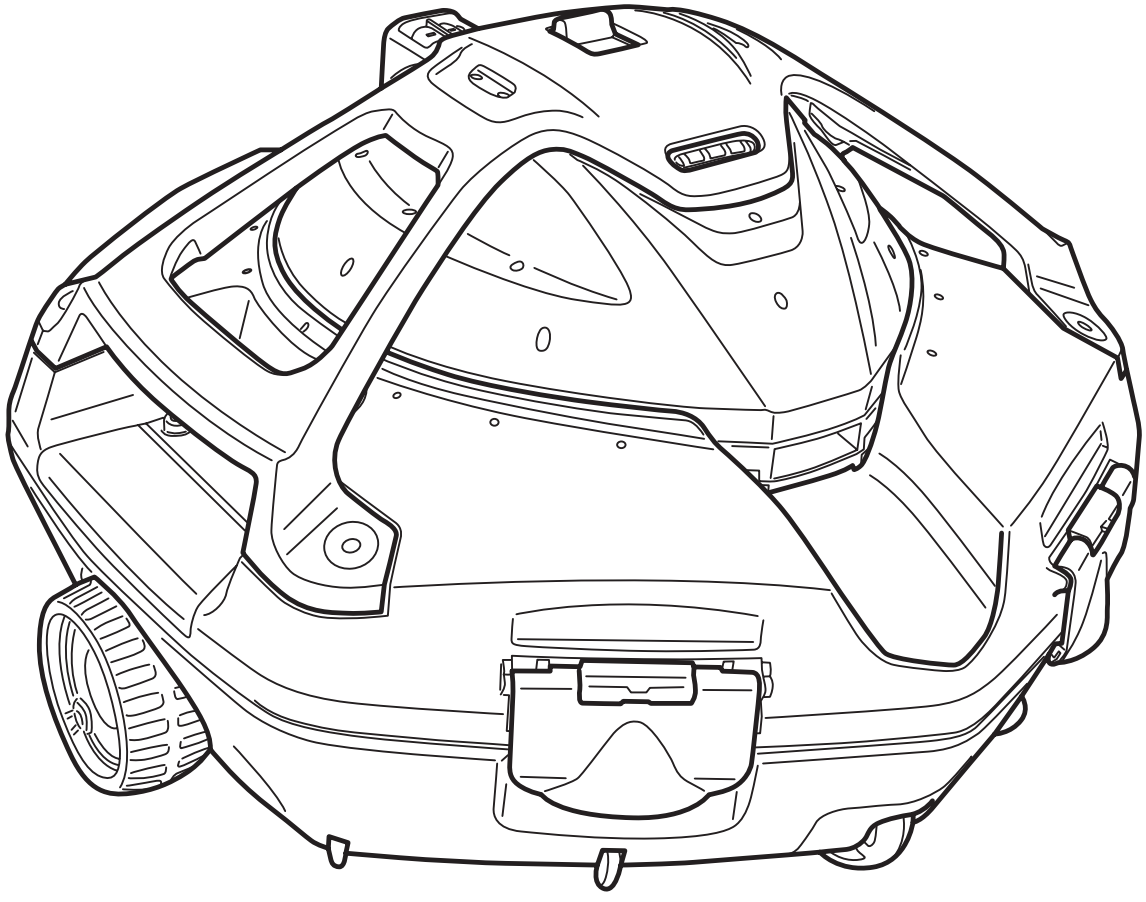
Pool Vacuum Cleaner

xtrojet 420

USER MANUAL



KOKIDO

SAFETY WARNINGS & INSTRUCTIONS

Information contained in this Instruction Manual will help you operate the item safely, protect yourself and others from hazards, and prevent damage to the device and other property.

SAVE THESE INSTRUCTIONS

WARNING!

- This is not a TOY. Children should be kept out of reach from this robot and its accessories.
- Never allow children to operate this product.
- This appliance is not intended for use by persons with reduced physical, sensory, mental capabilities, or a lack of experience and knowledge, unless they are given supervision or instructions concerning the safe use of the appliance and understand the hazards involved by a person responsible for their safety.
- Children must not play with this product.
- Cleaning and maintenance of the robot must not be carried out by children.
- Make sure the robot is fully immersed in the pool before initiating operation. The minimum water level required to operate the robot must cover the entire robot. Operating the robot when it is not immersed correctly could damage the unit and void the warranty.
- Maximum operating depth in water is 3 meters (9.8 ft).
- Operating water temperature: 5˚C (41˚F) – 35˚C (95˚F).
- ⊸□⊸ Detachable supply unit (external adaptor).
- The robot should only be charged with the external adaptor (already attached to the charging connector) delivered with this product.
- Connect the external adaptor to a power source through a residential current device (RCD) / a ground fault circuit interrupter (GFCI). If in doubt, consult a qualified electrician.
- Do not use this robot if any damage is detected.
- Replace damaged parts with ones that are certified by the distributor or manufacturer.
- Disconnect the robot from the supply mains and make sure the robot is OFF prior to carrying out regular maintenance – such as cleaning the filter compartment and charging port.
- Do not attempt to replace the installed rechargeable Li-ion battery pack.

- DO NOT handle the robot, external adaptor, and charging connector while it is charging with wet limbs and without shoes.
- Ensure that children do not attempt to access the robot while it is operating.
- It is not advisable to enter the pool when the robot is working to avoid damage to the robot.
- DO NOT use this robot without an intact filter cover in place, otherwise your warranty will be voided as a result.
- Suction entrapment hazard: This robot generates suction. Do not allow hair, body, and any loose parts of your clothing to make contact with the suction hole of the robot during its operation.
- Never insert body parts, clothing, and other objects into the openings and moving parts of the robot.
- DO NOT use this robot to pick up any toxic substance, flammable, and combustible liquids (i.e. gasoline) in the presence of explosive or flammable fumes.
- Under no circumstances should you disassemble the robot to replace its internal components by yourself. Doing so would void the warranty, expose yourself to potential hazards, and possibly damage the device and other properties.
- Never insert fingers or any object to touch the impeller.
- The built-in battery must be removed by a skilled technician before it is scrapped.
- This robot contains a battery that are only to be removed by skilled persons.
- The robot must be disconnected from the supply mains as the battery is removed.
- For details regarding battery recycling/disposal, refer to the section "BATTERY DISPOSAL" in this manual and contact your local authorities for more information.
- The battery must be disposed safely in accordance with local ordinances or regulations.
- External adaptor and charging connector:
  - Never use the external adaptor and charging connector for anything other than charging the battery of the robot that is supplied in the same pack.
  - The external adaptor and charging connector should not be used outdoors, nor should it be exposed to rain, humidity, and any liquid or heat.

- The transformer (or external adaptor) is to be located outside zone 1.
- Keep the external adaptor and charging connector out of reach of children.
- Never use the external adaptor and charging connector if any damage is detected.
- DO NOT handle the external adaptor and charging connector with wet hands.
- Keep the external adaptor disconnected from power when it is not in use.
- Never attempt to pry open the external adaptor and charging connector.
- If the supply cord of the external adaptor is damaged, the external adaptor must be replaced by the manufacturer or its service agent to prevent hazards of any kind.
- Make sure the robot is completely dry before charging.

CAUTION!

- This robot is designed for underwater use only; it is not an all-purpose vacuum cleaner. DO NOT attempt to use it to clean anything other than your pool.
- Use only the original accessories delivered with this product.
- DO NOT use this robot right after pool-shocking. It is recommended to first leave the pool circulating for at least 24 - 48 hours.
- If you are planning on using the robot in a saltwater pool, make sure all salt are dissolved before deploying the robot.
- DO NOT use this robot with another automatic cleaner/cleaner simultaneously in the pool.
- Remove hard, sharp objects from the pool before deploying the robot to avoid damages to the robot and its filter.
- To avoid damages to the external adaptor and charging connector, do not attempt to carry the robot by the cord of external adaptor / charging connector or pull the cord to disconnect it from the power source and charging connector.
- Charge the robot indoors in a clean, dry area with good ventilation and away from sunlight.
- DO NOT leave the robot charged for over 10 hours.
- If the robot will not be used for an extended period, detach it from the charging connector and use a damp cloth to clean and dry the robot and its accessories. Make sure to charge the robot to about 30% to 50% of the battery capacity before it is stored. Store it in a well-ventilated area away from sunlight, heat, ignition sources, pool chemicals, and children. Recharge the robot every three months.
- All actions concerning the disassembly of the robot (ie. battery disposal) should only be carried out by an authorized technician.

Above warnings and cautions are not intended to incorporate all possible instances for risks and / or severe injuries. Pool / spa owners should always exercise extra caution and common sense when utilizing the product.

HOW THE ROBOT WORKS

The robot has a water-propelling nozzles at the top of the robot. Water is first sucked in through the suction mouth at the bottom of the robot, which then goes through the filter and is discharged via the propelling nozzle. Water jetting from the nozzle propels the robot forward. Once the robot stops against an obstacle such as the pool wall, it changes to jet the water on opposite nozzle, allowing the robot to move in the opposite direction. The robot moves in a generally straight pattern in one direction and in an arc pattern in the other direction. The robot vacuums the pool bottom as it moves, collecting debris in its compartment.

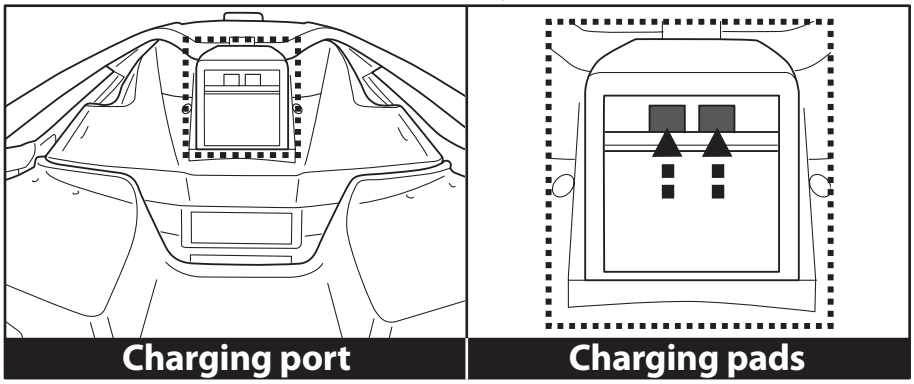
GETTING STARTED

Charging The Battery

IMPORTANT NOTE: Fully charge the robot (about 6 hrs) before using it for the first time.

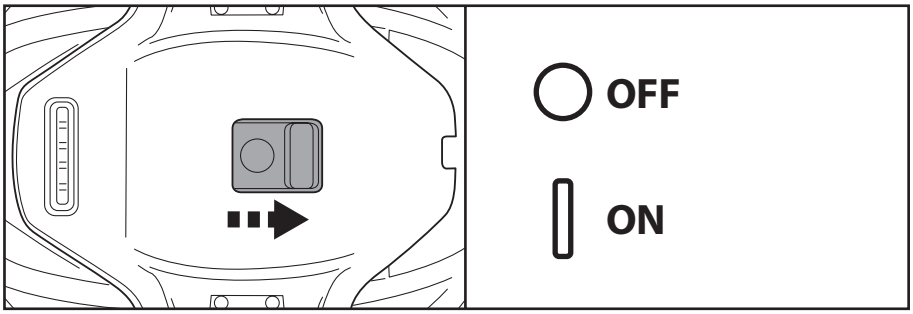
WARNING!

- Use only the original external adaptor and charging connector provided.
- Make sure the robot and the charging port are clean and dry before set-up and charging.
  (TIPS: Use a cotton bud to dry the charging port and charging pads inside.)

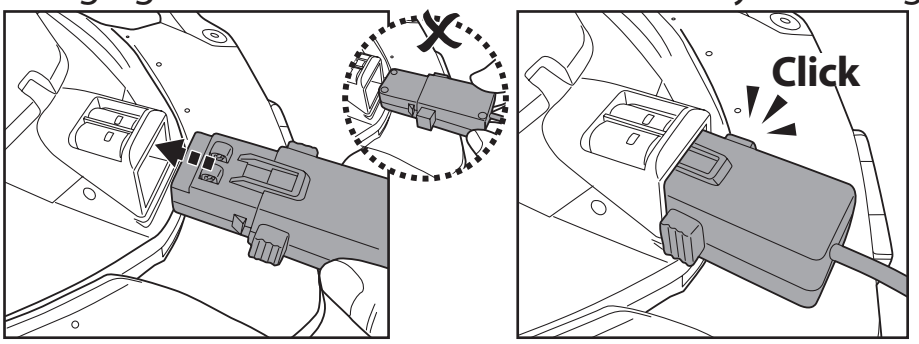


- The charging pads are waterproof. However, remnants of water in the port and around the pads could result in natural occurrence of stains (a byproduct of chemical reaction between water and electric currents). Otherwise, the stains can be removed by light scrubbing with a cotton bud soaked with juice of lemon or vinegar.

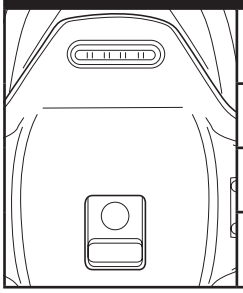
1. Place the unit on a flat surface. Slide the switch to the **OFF** position.



2. Align and insert the charging connector to the charging port. **WARNING!** Ensure both the charging connector and charging port are clean and dry before charging them. **TIP:** Use a cotton bud to dry the charging port and pads.

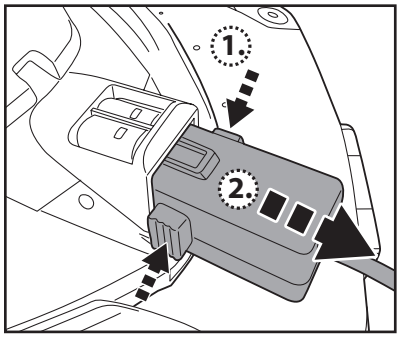


3. Connect the external adaptor to the power source. The indicator lights on the the robot turns red and flash once the charging begins. The indicator lights turn green when the robot is charged.

Charging light color indication		
	Running LEDs in blue	Means power is on. Slide the switch to the OFF position while charging.
	Running LEDs in red	Charging properly
	All LEDs are flashing in green	Charged.
	All LEDs are flashing in red	Wrong adaptor is used. Should use the adaptor provided with the robot

- Immediately disconnect the external adaptor from the power source if you detect any of the following:
  - Offensive or unusual odor
  - Excessive heat
  - Deformation, cracks, leaks
  - Smoke

4. When charging is complete, disconnect the external adaptor from the power source and unplug the charging connector from the unit.



Normally the robot can operate up to 75 minutes on a full charge.

NOTE: Clean the debris compartment regularly. Excessive debris inside the debris compartment increases the burden to the motor operation and shortens the operating duration as a result.

NOTE: Rechargeable lithium-ion battery is classified as a consumable item. It has a limited life and will gradually lose its capacity to hold a charge. Therefore, the running time of the robot will gradually reduce after repeated charging and discharging throughout its product life.

Once the lifespan of the battery reaches its end, refer to section **"BATTERY DISPOSAL"** for instructions regarding battery disposal.

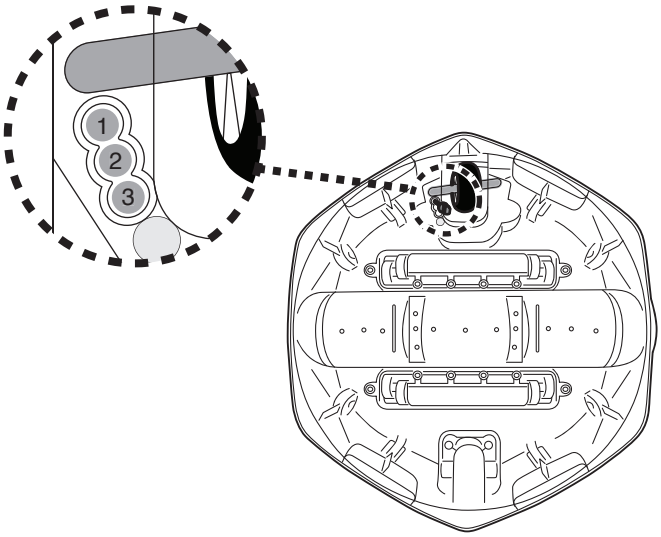
NOTE: Let the robot rest for around 30 to 40 minutes before charging it again.

Set-Up Before Use

Adjustment of Trajectory

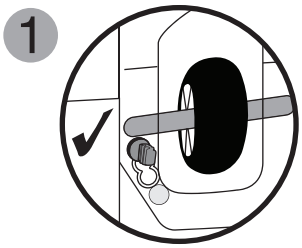
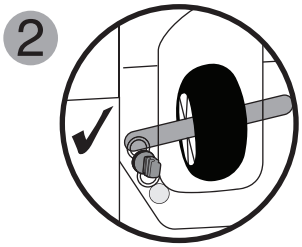
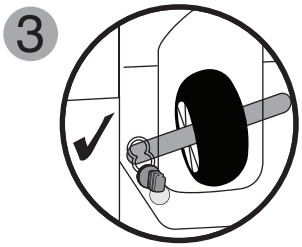
Locking Pin

The trajectory of the robot is dependent on the position of the pin that fixes the axle to a certain angle.



Recommended settings:

NOTE: Wheel axle should be positioned above the locking pin.

Pin location	Pool size
	For pools where the shortest length is 9.8 feet or above.
	If the robot does not cover the entire pool with either pin position 1 or 3, try below setting. If the situation persists, deploy the robot from a different location.
	For pools where the shortest length is 9.8 feet or below. (Factory setting)

Pool Preparation

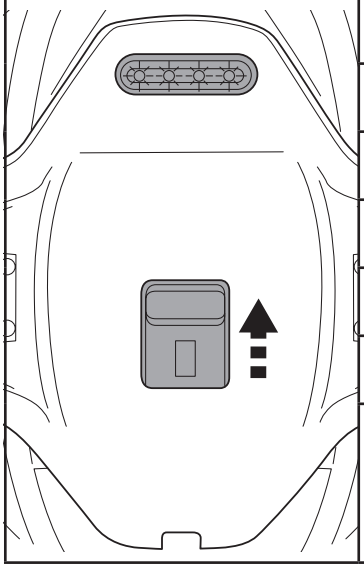
- If there are stones, roots or metal corrosion in contact with the underside of the liner, discard them prior to using the robot. If necessary, seek assistance from a qualified professional.
- If the liner is brittle, damaged or wrinkled, contact a qualified professional to perform the necessary repairs or perform a liner replacement prior to using the robot.
- Remove any pool ladder from the pool as it may obstruct the movement of the robot.
- If you are using a saltwater pool, make sure all salt are dissolved before placing the robot into the water.

OPERATION

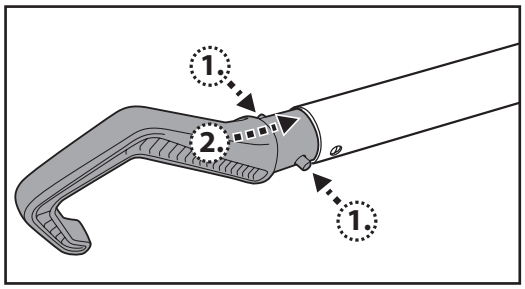
WARNING!

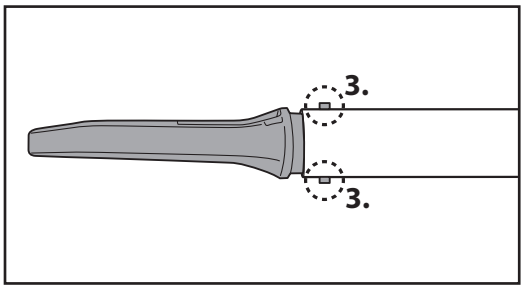
- Make sure the robot is off.
- Make sure filter cover is in place.
- Ensure the charging connector is detached before deploying the robot in the pool.

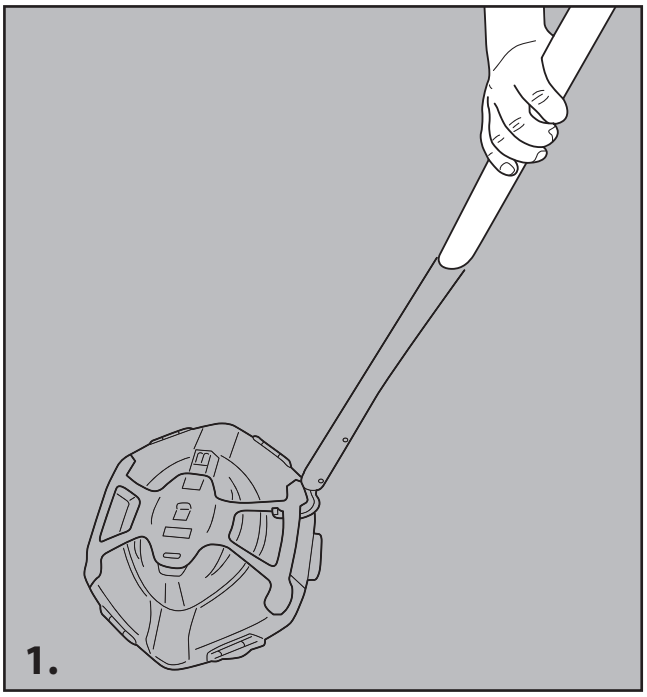
1. Bring the robot to the side of your pool. Slide the power switch to "ON" and all indicator lights will illuminate in blue. Immerse entire robot into water and all indicator lights will change to be green.

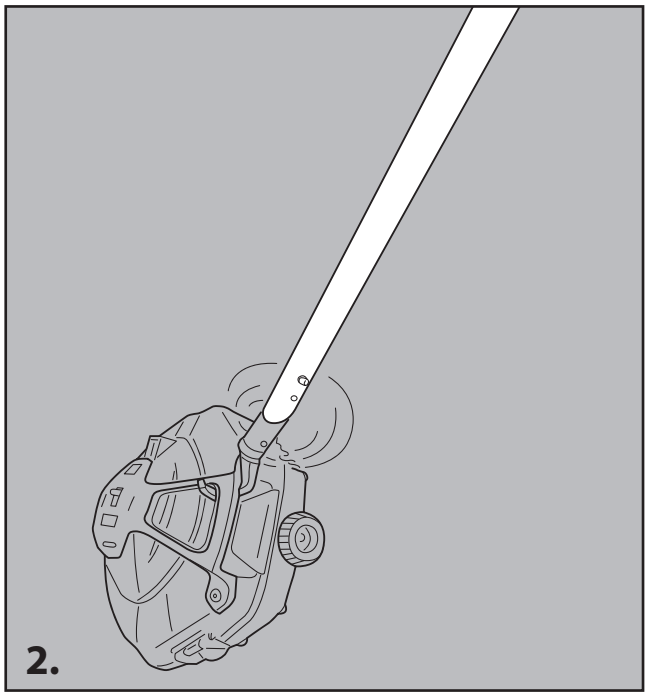
Operating light color indication		
	4 blue LEDs	Power on (ready for operation).
	4 green LEDs	Start to operate within 3-5 seconds.
	3 green LEDs left	About 50-55 minutes left.
	2 green LEDs left	About 20-25 minutes left.
	1 green LED left	About 3-5 minutes of usage remains.
	1 green LED starting to flash	About 2 -3 minutes to stop.
	4 red LEDs	Impeller is clogged. Remove the robot from the pool and switch it off. Open and turn over the cover to locate the impeller in the middle. Remove the debris from the impeller.

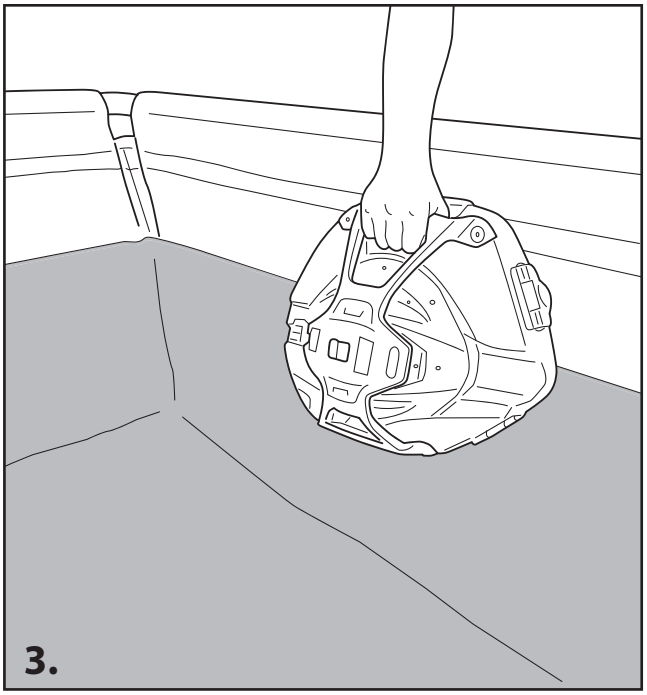
2. To retrieve the robot from the pool, attach the hook to a telescopic pole (not provided) and use it to retrieve the robot, if you are unable to retrieve with your hands.

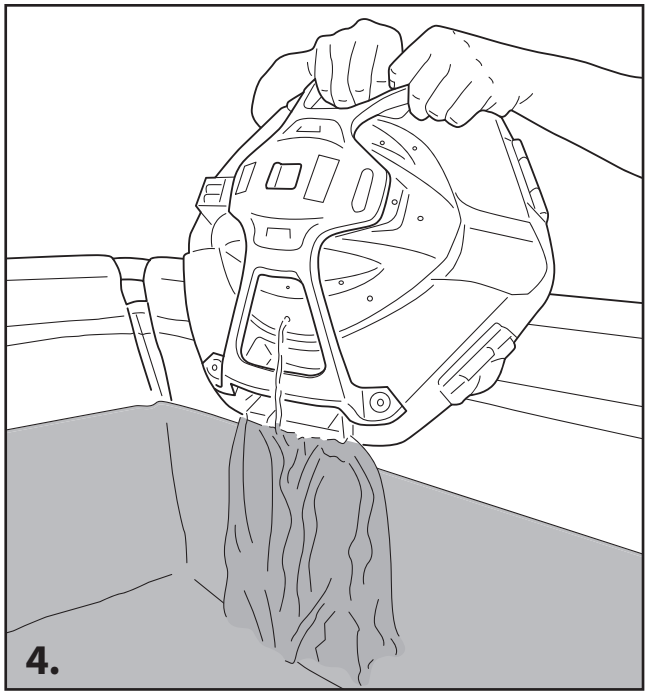












3. Slide the power switch OFF. Rinse the robot with fresh water after every use. DO NOT use any detergent.
4. Dry the charging port and pads thoroughly (TIPS: Use cotton bud to dry them)

NOTE: To ensure the most efficient cleaning, when your pool is quite dirty, it is recommended to empty the debris compart- ment after the first 30min of operation, or whenever the robot's movement has slowed down noticeably. Then return the robot (with an emptied debris compartment) to the pool, and let it run through the remaining of its cycle.

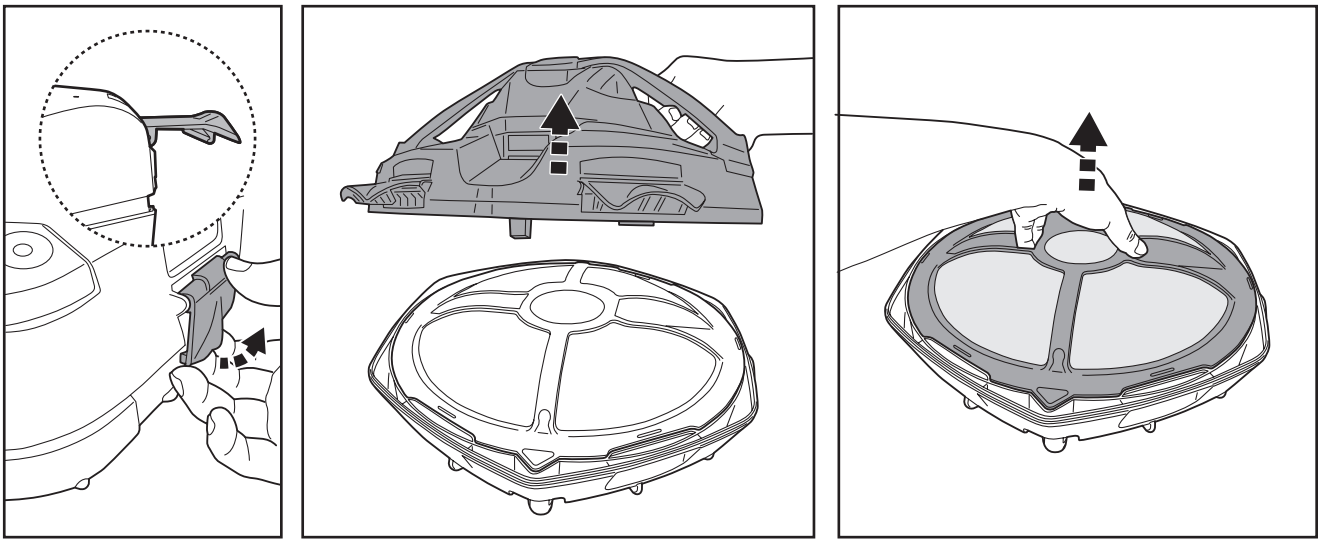
EMPTYING THE DEBRIS COMPARTMENT

WARNING! Using the robot without its filter cover in place will VOID your warranty.

In order to maximize the cleaning efficiency, clean the debris compartment and the filter cover before and after each use.

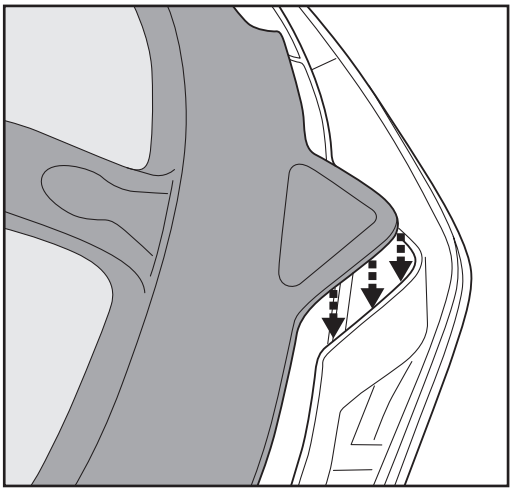
CAUTION! Before cleaning the debris compartment, make sure the robot is **OFF**.

1. Place the cleaner on a flat and sturdy surface. Pry open the side clips to release the top cover from the base. Remove the top cover from the base to expose the filter cover.

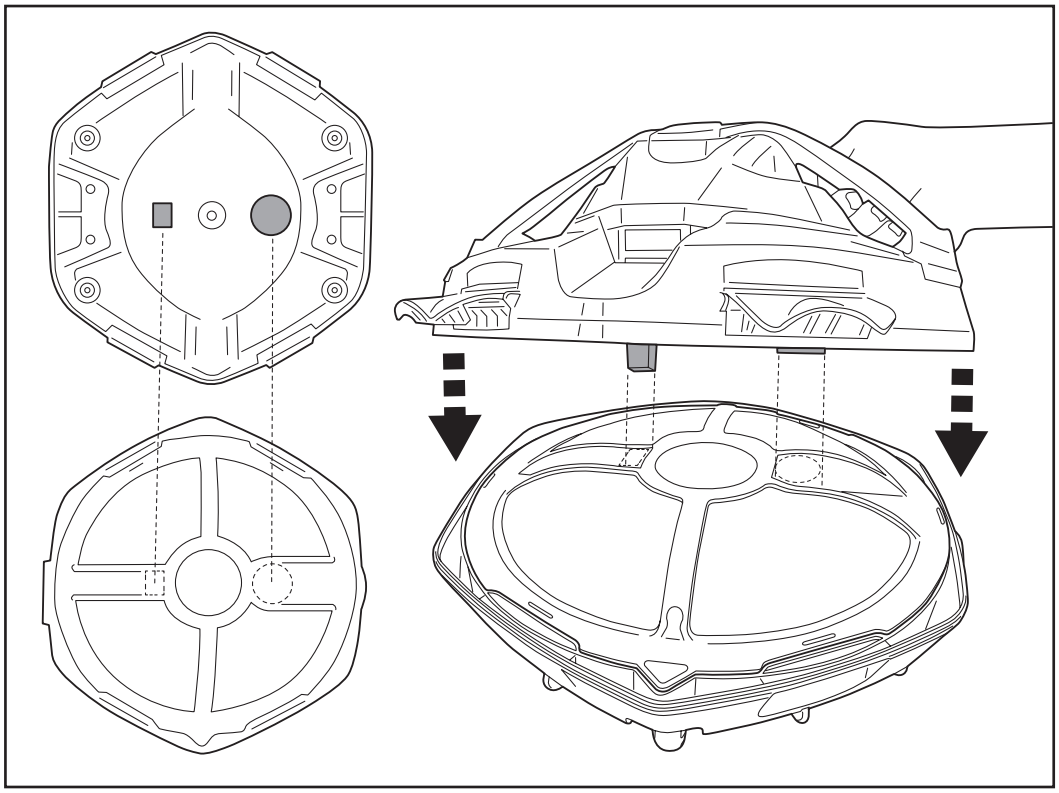


2. Detach the filter cover and remove the debris from the compartment. It is recommended to clean the filter cover net with splashing water. If brushing is deemed necessary, use only a soft brush to clean it carefully and gently to avoid damages.

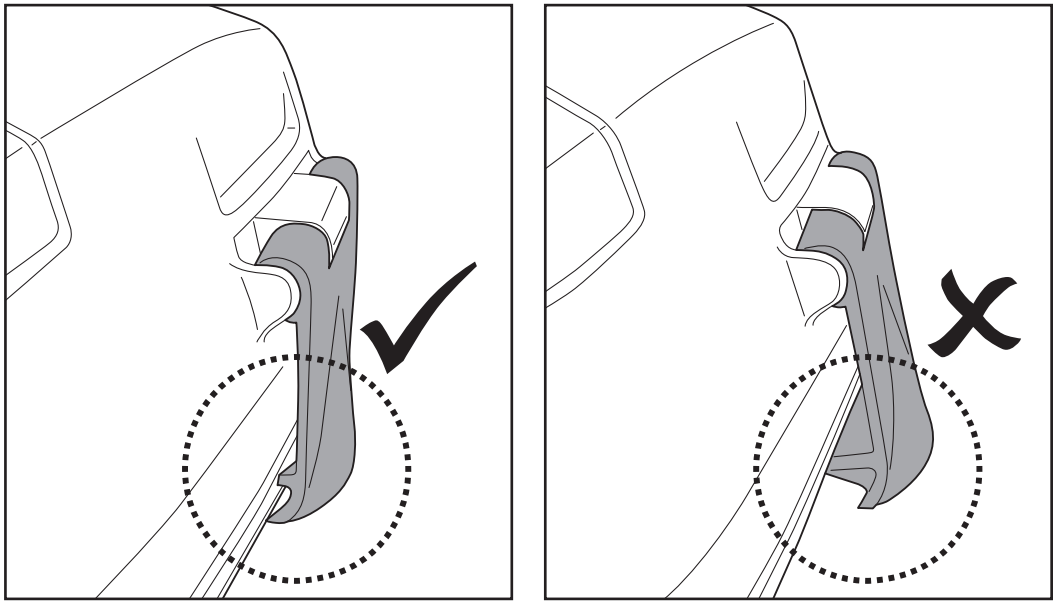
3. After cleaning, align and put the filter cover back to the base.



4. Align the top cover to the base as shown.
   Note: There is only one direction in alignment.



5. Press on all side clips until they are secured to the base. A"click" sound will confirm the top cover is secured to the base.



TIPS: Before redeploying the robot to the pool, ensure the top cover is secured to the base.

MAINTENANCE & STORAGE

NOTE:

1) Be sure to clean and dry the areas around the charging port after every use to avoid the forming of stains (byproduct of a natural chemical reaction between electric current and water). Otherwise, the stains can be removed by light scrubbing with a cotton bud soaked with juice of lemon or vinegar.
2) Battery discharges on its own during storage. Make sure to fully charge the robot before storage.
3) You must recharge the battery at least once every three months when it is not in use.
   - Unplug the external adaptor from the socket and the charging connector from the robot.
   - Detach accessories from the robot. If necessary, rinse the robot and accessories with fresh water. **DO NOT** use detergent.
   - Be sure to drain the water from the robot before storage.
   - Use a damp cloth to clean and dry the robot and its accessories.
   - Store them in a well-ventilated area away from sunlight, heat, ignition sources, pool chemicals and from children. Ambient temperature for storage should be 10˚C – 25˚C (50˚F – 77˚F). **NOTE:** A higher storage temperature may reduce the battery life.

WARNING! Under no circumstances should you disassemble the robot to replace its internal components by yourself. Doing so would void the warranty, expose yourself to potential hazards, and possibly damage the device and other properties.

CAUTION!

- Excessive heat can damage the battery and reduce the lifespan of your robot as a result.
- Consult Kokido Support regarding battery replacement if the following happens:
  - Battery does not charge fully.
  - Battery operation time is noticeably reduced. Observe and record the run times of the first few operations (on a full charge). Use these run times as a reference point for comparison with run times in the future.
- The battery must be removed from the robot before it is scrapped.
- The robot must be disconnected from the supply mains when the battery is being removed.
- The battery is to be disposed safely in accordance with local ordinances or regulations.

NOTE: Incorrect maintenance may reduce the battery life and affect its capacity as a result.

BATTERY DISPOSAL (To be carried out by an authorized technician)

Your robot is equipped with a maintenance - free rechargeable lithium-ion battery pack, which must be disposed of properly. Recycling is required; please contact your local authority for more information.

WARNING! Never attempt to disassemble a battery pack.

- Remove all personal items such as rings, bracelets, necklaces and watches when the battery pack is unwired from the robot.
- A battery can produce a short circuit current high enough to weld a ring (or similar item) to metal, causing a severe burn in the process.
- Wear complete eye protection, gloves and protective clothing when the battery pack is being removed.
- Avoid touching the wires altogether and avoid contact between them and any metal items, which could cause sparking and/or short circuit the battery.
- Never smoke or allow a spark or flame in the vicinity of the battery or the robot.
- Do not expose the battery to fire or intense heat as this may result in an explosion.

CAUTION!

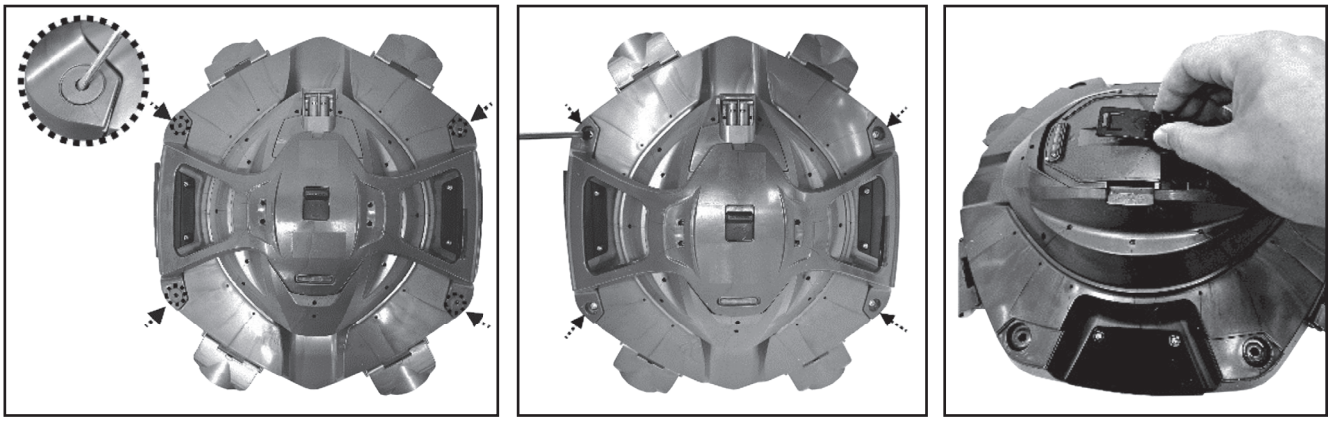
If a battery leak occurs, avoid any contact with the leaking fluids and place the damaged battery in a plastic bag.

- If leaking fluids come in contact with skin and clothing, wash immediately with plenty of soap and water.
- If leaking fluids come in contact with eyes, do not rub eyes, immediately flush eyes with cool running water for at least 15 minutes and do not rub them. Seek medical attention as soon as possible.

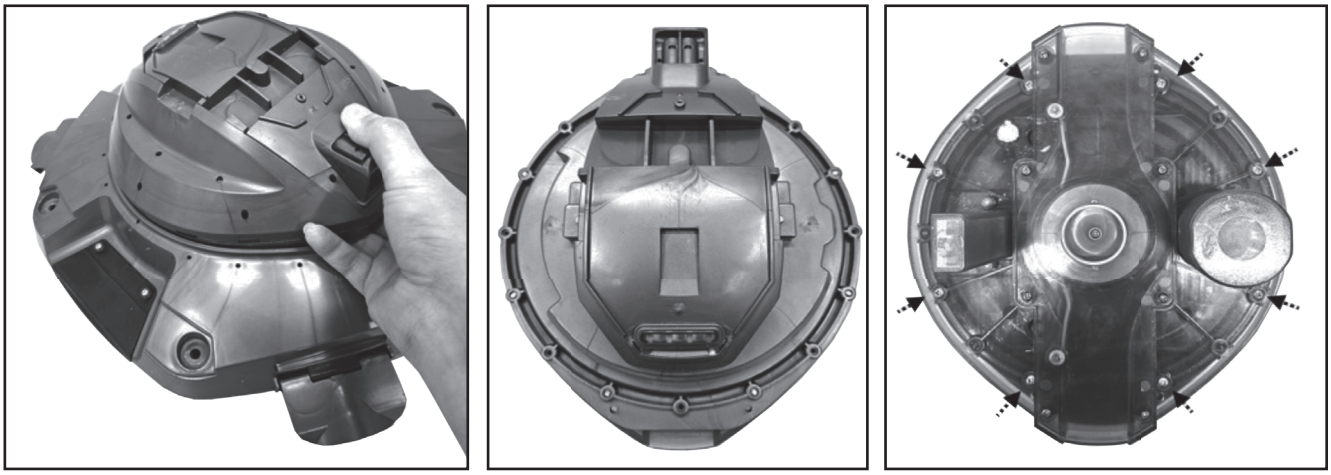
How to remove the battery pack for battery disposal (To be done by authorized technician)

Recommended tools (not included): Screwdriver.

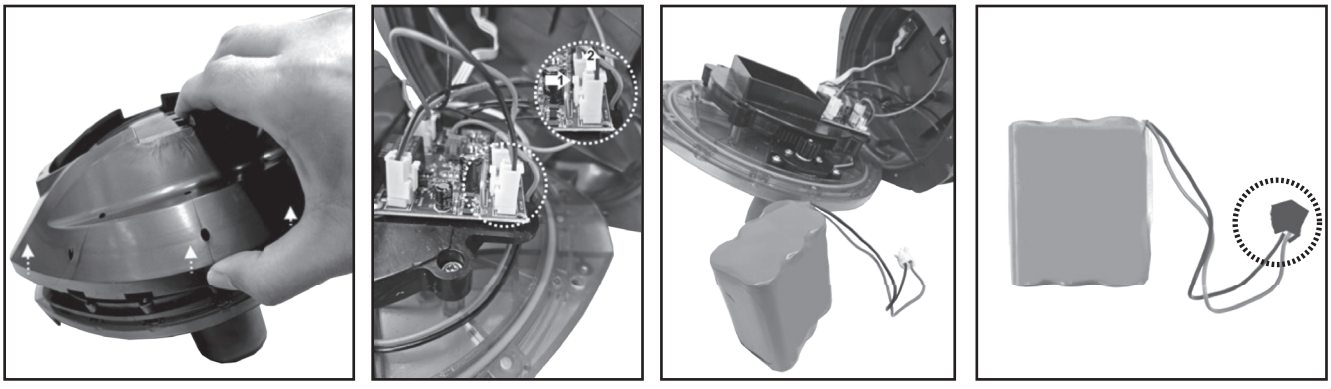
1) Follow section "**EMPTYING THE DEBRIS COMPARTMENT**" to release the top cover. Pry open the screw covers and then unfasten the screws to release the frame. Remove the sliding switch from the top.



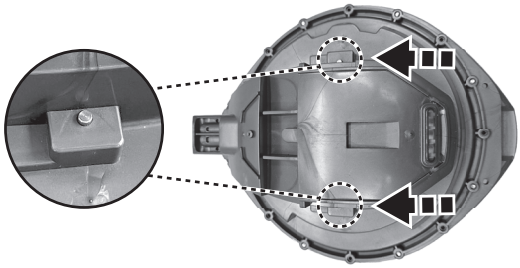
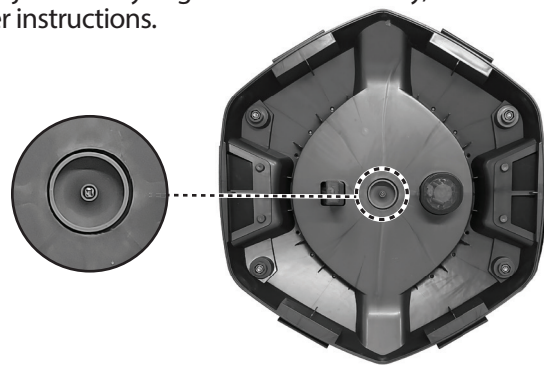
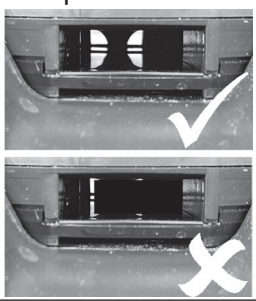
2) Lift and remove the core unit. Turn it over to expose the screws on its bottom. Unfasten the screws as pointed.



3) Pry open the cover of core unit to expose the PCBA. TO detach the battery connection wire, press on the clip of the connector to pull it out. Remove the battery pack and wrap the connector immediately with insulating tape in order to avoid any short circuit caused by the contact of both wire terminals.



TROUBLESHOOTING

Problem	Possible Cause	Solution
Robot does not start working under water	Stained water sensors	Clean the water sensor. Follow "How to remove the battery pack for battery disposal " section to remove the core cover to expose the water sensor (as indicated in below diagram) on both side. Use a cotton bud soaked with juice of lemon or vinegar to clean and remove the stains. 
Robot does not capture the debris	Battery is running out	Charge the robot again.
	Impeller is jammed	Power off the robot and inspect the hole under the cover to see if the impeller is jammed by large debris. If necessary, contact Kokido Support for further instructions.  **WARNING!** Make sure the robot is off before the unit is serviced.
	Suction mouth is clogged	Remove clogged objects from the suction mouth.
	Impeller is broken	Contact Kokido Support for replacement.
	Debris compartment is full	Clean both debris compartment and filter cover.
Robot does not return oppositely when stops against the pool wall	The disk inside the water propelling nozzle is jammed by fine sand or debris Visual inspection at the nozzle 	Backwash the system by running water through the nozzles. This can help dislodge any trapped particles from the disk. If the issue persists, using a small brush, such as a baby bottle nipple brush, can help clean out any remaining debris.
Robot stopped moving in the middle / not close to the pool	Robot stopped by obstacle or large creases in the pool liner	Check to see that if there is anything obstructing the cleaner. Remove the obstacle.
	Robot is hindered by suction from the main drain of pool floor	Turn off the filtration system as instructed in filtration manual.
	Robot's movement to the pool wall is hindered by the water flow from pool water return	If this situation persists, turn off the filtration system..

Problem	Possible Cause	Solution
Robot does not cover the entire pool	Debris compartment is full	Clean the debris compartment.
	Operation time is shorter as expected	Clean the filter compartment and recharge the robot for 6 hrs.
	Moving direction is interrupted by water circulation generated by filtration system	Turn off the filtration system (as instructed in filtration manual) at least 15 minutes before robot operation.
	Wheel is jammed	Check and remove debris from the wheel.
	Position of locking pin is not set properly	Follow instruction to adjust the locking pin position.
	Algae renders the pool floor slippery which results in the robot going in circles	Scrub the pool bottom and robot wheels to remove the algae.
Robot moves along the pool wall	Position of locking pin is not set properly	Follow instructions to adjust locking pin setting.
Robot moves slowly or does not move at all	Debris compartment is full or filter cover is clogged	Clean the debris compartment. Flush the screen with water to remove small particles. If brushing is deemed necessary, use a soft brush to clean the screen gently. Note: make sure that the filter cover is in place before next operation.
	Suction mouth is clogged	Remove clogged objects from the suction mouth.
	Impeller is jammed	Power off the robot and inspect the hole under the cover to see if the impeller is jammed by large debris. If necessary, contact Kokido Support for further instructions. **WARNING!** Make sure the robot is off before the unit is serviced.
Debris escapes from the robot	Suction mouth's flap (at robot bottom) is damaged	Suction mouth's flap works like a door to prevent the debris from escaping from the debris compartment. Contact Kokido Support for replacement parts and instruction.
	Debris clogged at suction mouth and prevents the flap to close	Remove clogged debris from the suction mouth.
Debris leaks outside at the filter cover	Filter cover net is damaged	Replace with a new filter cover from Kokido Support.
Duration of cleaning cycle is shorter than advertised	Battery is not fully charged	Charge the robot for at least 6 hrs. **NOTE:** if any stains are found on the charging pads, remove them by using a cotton bud soaked with lemon juice or vinegar.
Robot cannot be charged / recharged	Battery is damaged	Contact Kokido Support for battery replacement. **WARNING!** DO NOT replace the battery by yourself. This could result in severe or fatal injuries and the warranty will be voided as a result.
	Charging connector is not completely connected with the robot	Make sure that the charging connector is connected with the robot properly and completely. Refer to instruction manual.
	External adaptor is out of order	Contact Kokido Support for replacement. **WARNING!** Using the wrong external adaptor will result in damaging the robot / battery and voiding the warranty as a result.

We reserve the right to change all or part of the features of the articles or contents of this document, without prior notice.
International patents pending

SAVE THESE INSTRUCTIONS

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