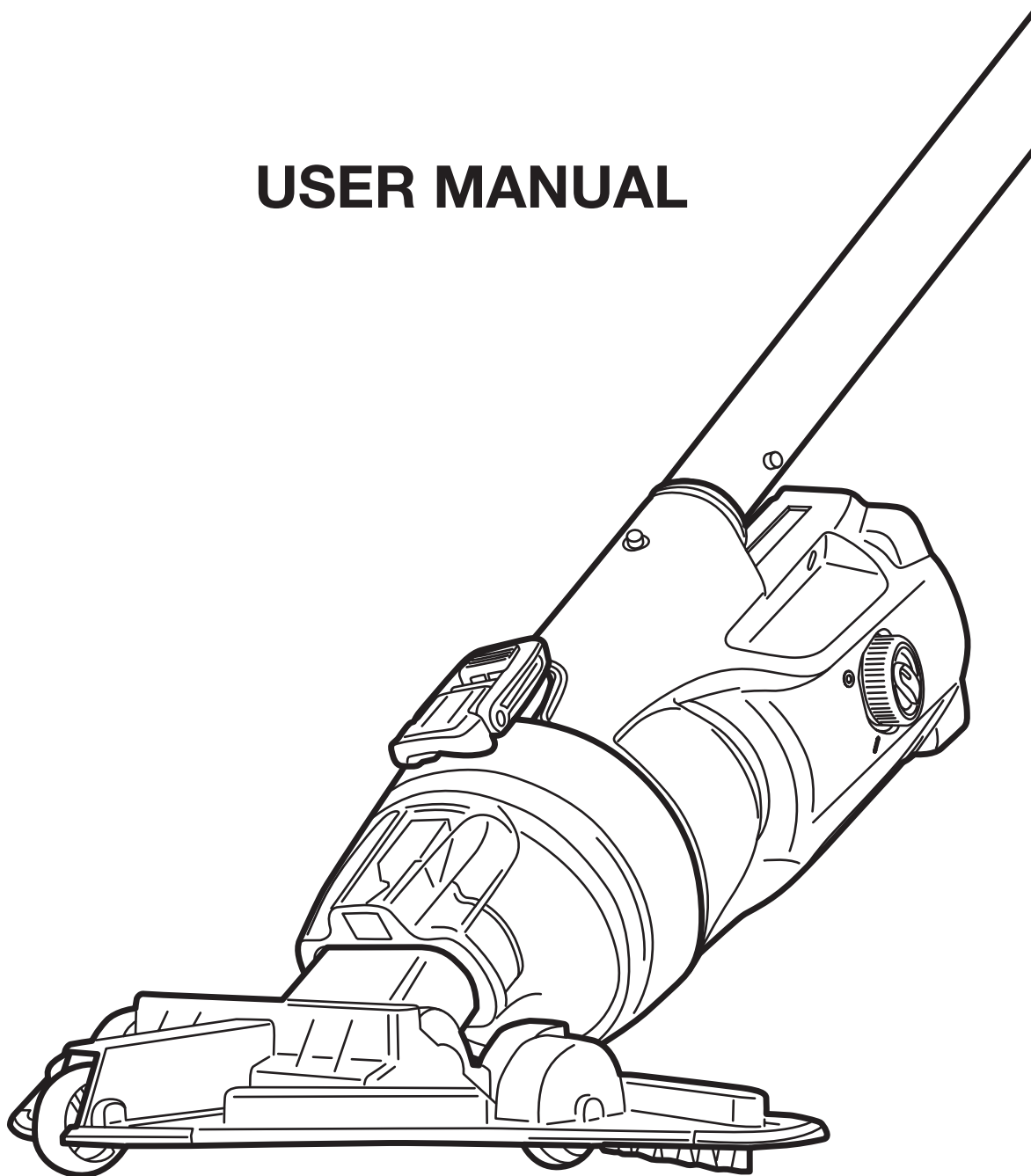


Pool Vacuum Cleaner

xtrovac 320

USER MANUAL



KOKIDO

Remark: Depending on the model you own, accessories/ parts shown in this manual are not necessarily included in every model. Product/parts in photos/drawings may vary with the model purchased. Check the spare parts drawing to understand the parts included in your model purchased.

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 pool vacuum and its accessories.
- Never allow children to operate this pool vacuum.
- 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 pool vacuum must not be carried out by children.
- Make sure the pool vacuum is fully immersed in the pool before initiating operation. The minimum water level required to operate the pool vacuum must reach above the power ON/OFF switch of the pool vacuum when it is held in a vertical position. Operating the pool vacuum when it is not immersed correctly could damage the unit and void the warranty.
- Maximum operating depth in water is 3 meters (10ft).
- Maximum water temperature: 5°C (41°F) –35°C (95°F).
-  Detachable supply unit (external adaptor).
- For the purpose of recharging the battery, only use the charging base and detachable supply unit that provided with this pool vacuum.
- 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 pool vacuum if any damage is detected.
- To prevent damage to the pool vacuum, not to leave it outside during freezing weather.
- Replace damaged parts with ones that are certified by the distributor or manufacturer.

- Turn off the power, disconnect the external adaptor from the power source, and unplug the external adaptor from the charging base before detaching the pool vacuum from the charging base.
- Disconnect the pool vacuum from the supply mains and make sure the pool vacuum is OFF prior to carrying out regular maintenance – such as cleaning the filter and the charging contact plates.
- Do not attempt to replace the installed rechargeable Li-ion battery pack.
- DO NOT handle the pool vacuum, external adaptor, and charging base while it is charging with wet limbs and without shoes.
- Ensure that children do not attempt to access the pool vacuum while it is operating.
- DO NOT use this pool vacuum without an intact filter bag/filter cage in place, as your warranty will be voided as a result.
- Suction entrapment hazard: This pool vacuum generates suction. Do not allow hair, body, or any loose parts of your clothing to make contact with the suction hole of the pool vacuum during its operation.
- Never insert body parts, clothing or other objects into the openings and moving parts of the pool vacuum.
- DO NOT use this pool vacuum 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 attempt to disassemble the pool vacuum and replace the impeller, motor, and battery by yourself.
- 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 pool vacuum contains a battery that are only to be removed by skilled persons.
- The pool vacuum 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 base:
 - Never use the external adaptor and charging base for anything other than charging the battery of the pool vacuum that is supplied in the same pack.
 - The external adaptor and charging base 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 base out of reach of children.
- Never use the external adaptor and charging base if any damage is detected.
- DO NOT handle the external adaptor and charging base with wet hands.
- DO NOT handle the pool vacuum, external adaptor, and charging base while charging with wet hands and without shoes.
- Keep the external adaptor disconnected from power when it is not in use.
- Never attempt to open the external adaptor and charging base.
- 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 pool vacuum and the charging base are completely dry before charging.

CAUTION!

- This pool vacuum 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 / spa / hot tube.
- Use only original accessories delivered with this product.
- DO NOT use this pool vacuum right after pool-shocking. It is recommended to leave the pool circulating for at least 24-48 hours.
- If you are planning on using the pool vacuum in a saltwater pool, make sure all salt are dissolved before deploying the pool vacuum.
- DO NOT use this pool vacuum with another automatic cleaner/cleaner simultaneously in the pool/ spa / hot tube.
- Avoid picking up hard, sharp objects with this product. They may damage the pool vacuum and filter.
- Exercise caution when cleaning pool stairs.
- To avoid damages to the external adaptor and charging base, do not attempt to carry the pool vacuum by the cord of external adaptor / charging base or pull the cord to disconnect it from the power source and charging base.
- Charge the pool vacuum indoor in a clean, dry area with good ventilation and an ambient temperature between 5°C (41°F) and 35°C (95°F).
- DO NOT leave the pool vacuum charged for over 10 hours.
- If the pool vacuum will not be used for an extended period, detach it from the charging base and use a damp cloth to clean and dry the pool vacuum and accessories. Make sure to charge the pool vacuum to about 30% to 50% of the battery capacity before it is stored. Store in a well-ventilated area away from sunlight, heat, ignition sources, pool chemicals, and children. Never leave the pool vacuum plugged in for long-term storage. Recharge the pool vacuum every three months.

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

GETTING STARTED

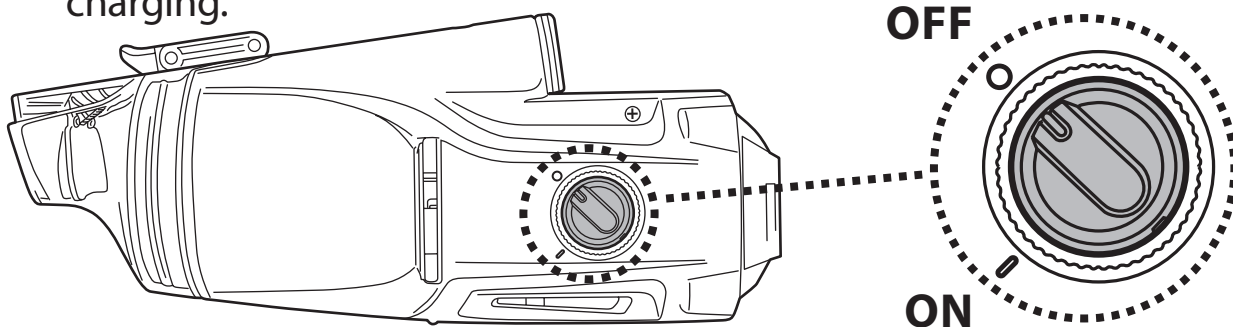
Charging The Battery

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

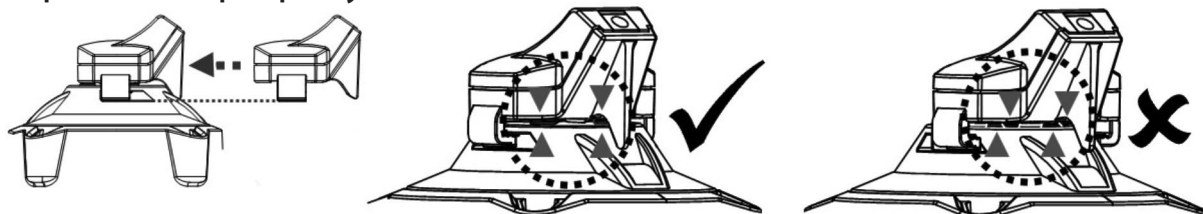
WARNING!

- Use only the original external adaptor and charging base provided.
- Make sure the pool vacuum and the charging contact plates are clean and dry before set-up and charging. (TIPS: Use a cotton bud to dry the charging contact plates)
- Charging must be done indoors, in a well-ventilated area away from sunlight, children, heat, ignition sources, and with an ambient temperature between 5°C (41°F) and 35°C (95°F).
- Never use the external adaptor and charging base if any damage is detected.
- The charging contact plates are waterproof. However, remnants of water on the contact plates 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.
- Make sure that the pool vacuum is turned off prior to charging.

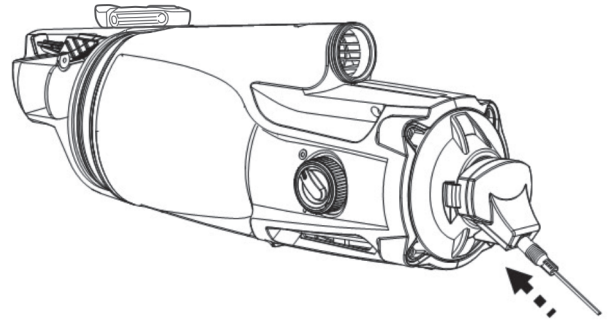
1. Place the unit on a flat surface. Make sure the pool vacuum is off by turning the power ON/OFF switch to the OFF position prior to charging.



2. Align and slide the hook of the charging base onto the side notch at the bottom of the main body until it stops. Make sure their contact plates are properly in contact.



3. Plug the jack of the external adaptor into the charging port at the end of the charging base.



4. Connect the external adaptor to the power source. Once the pool vacuum begins charging, the indicator light on the external adaptor will turn red. Normally, it takes about 4-6 hours to reach a full charge. The indicator light will turn green when the pool vacuum is almost fully charged.

NOTE: if the motor is generating noise, ensure "OFF" is selected on the power switch.

- 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

5. When charging is complete, disconnect the external adaptor from the power source and detach the charging base from the unit and external adaptor.

Normally, the pool vacuum can operate up to 30 minutes on a full charge (charged for 4-6 hours) .

Note: Clean the filter bag/filter cage regularly. Excessive debris inside the filter bag/filter cage increases the burden to the motor operation and shortens the operating duration as a result.

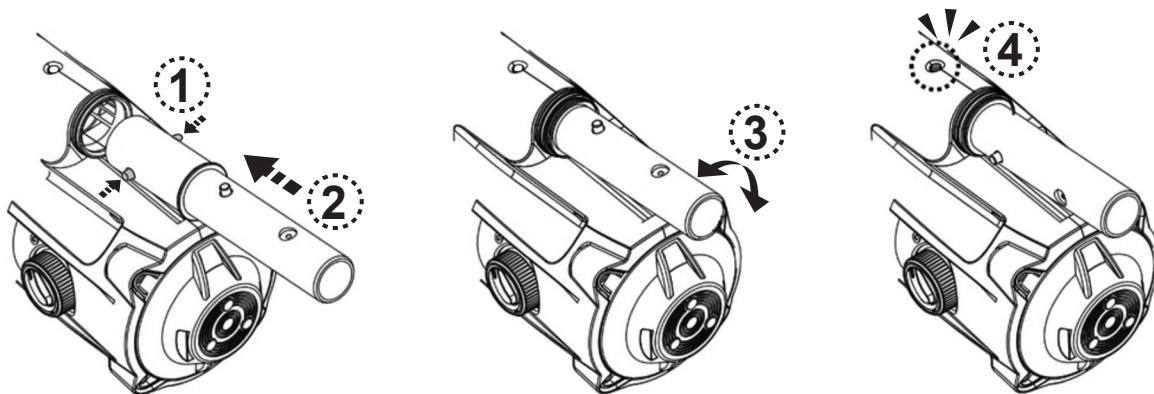
FACT: Rechargeable lithium-Ion battery is classified as a consumable item. It has a limited life and will gradually lose its capacity to hold a charge. Therefore, running time of the pool vacuum will gradually reduce through repeated charging and discharging in operation.

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

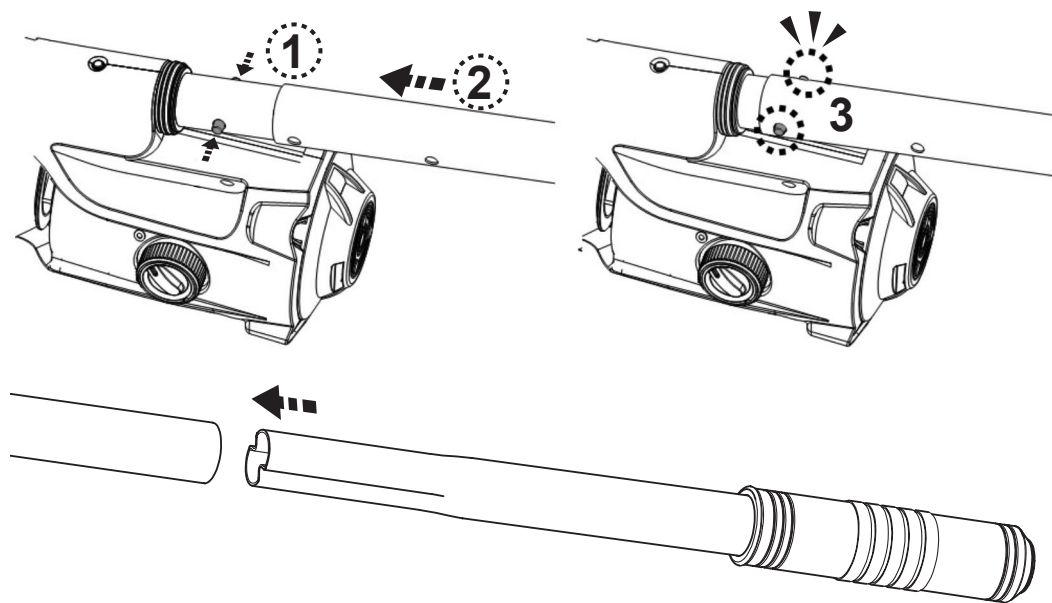
NOTE: Let the pool vacuum rest for around 30 to 40 minutes before charging it again.

Set-Up Before Use

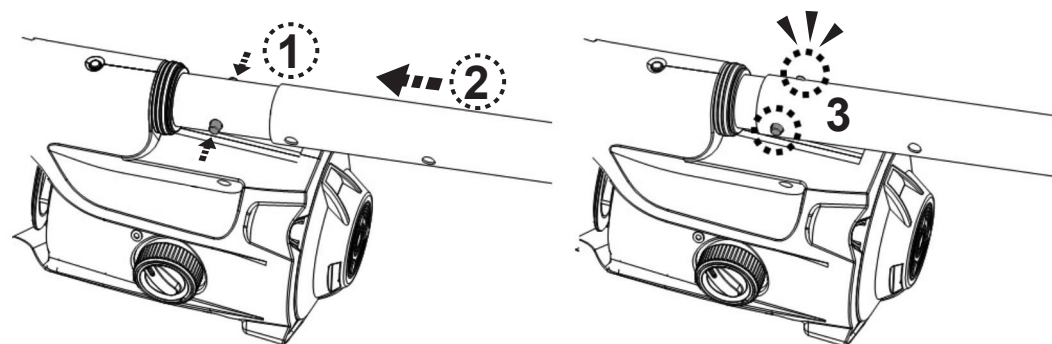
Pole Connector Assembly



Pole Assembly



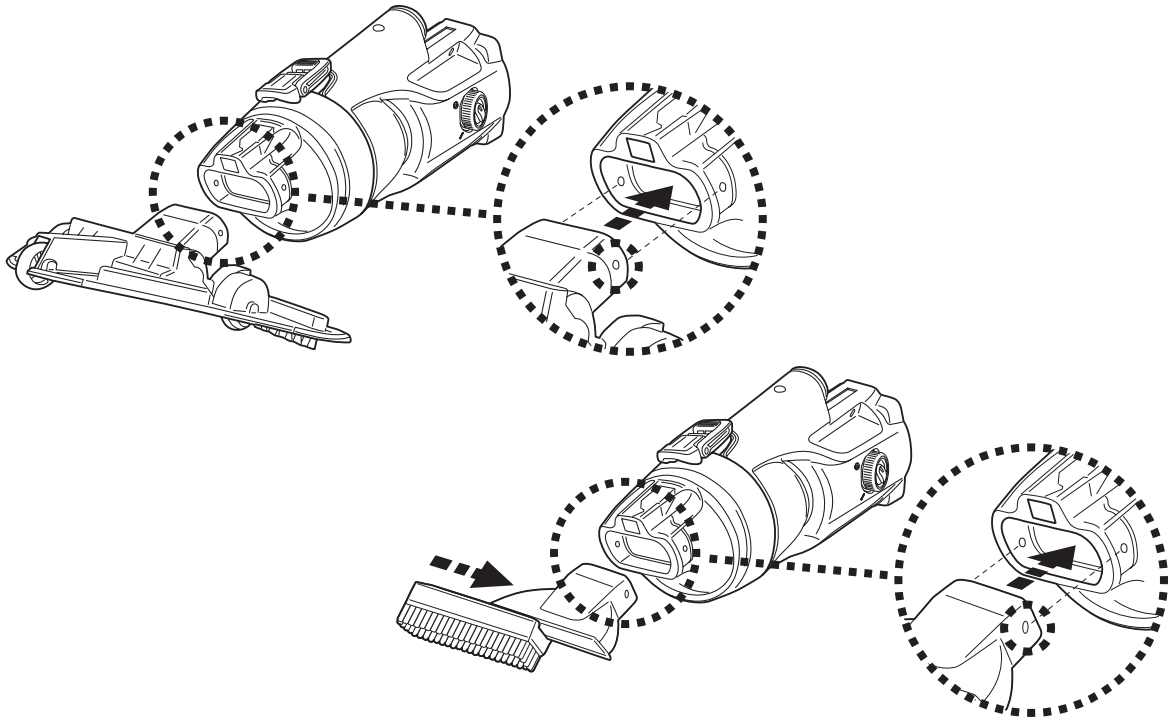
Telescopic Pole (Not Included) Assembly



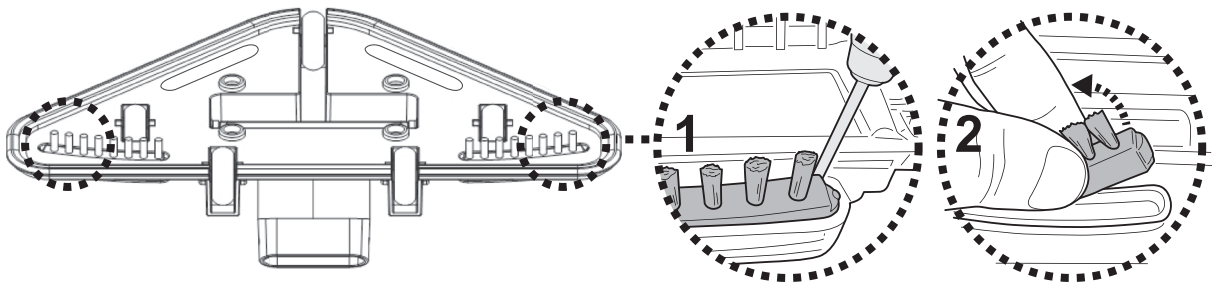
To release the telescopic pole, press down the side pins simultaneously and pull out the pole.

Suction Head Assembly

Insert the suction head directly into the suction mouth of the pool vacuum until the side tabs of transparent case will clip in the holes of the suction head's pivot.



NOTE: To replace the brushes on the suction head, lift the end and pull it out to make space for a new one.



WARNING! For vinyl liner and fibreglass pools/spa/hot tube, it is recommended to keep the brushes on the suction head to avoid damaging the pool/spa/hot tube.

Pool Preparation

- If there are stones, roots or metal corrosion in contact with the underside of the liner, discard them prior to using the pool vacuum. 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 pool vacuum.
- If you are using a saltwater pool, make sure all salt are dissolved before placing the pool vacuum into the water.

OPERATION

WARNING!

- Make sure the pool vacuum is off.
- Do not use the pool vacuum if any damage is detected.
- Oil stain could occur due to possible leakage of lubricants applied to the O-ring.
- Make sure the pool vacuum is fully immersed in the pool before initiating operation. The minimum water level required to operate the pool vacuum must reach above the power ON/OFF switch of the pool vacuum when it is held in a vertical position. Operating the pool vacuum when it is not immersed correctly could damage the unit and void the warranty.
- DO NOT use the pool vacuum without an intact filter bag/filter cage in place. Using your pool vacuum without an intact filter bag/filter cage in place will VOID your warranty.
- DO NOT leave the pool vacuum in the water when it is not in use.

1) Bring your pool vacuum to the side of your pool / spa / hot tube. Immerse the pool vacuum in water and turn the power ON/OFF switch to the ON position to initiate operation.

CAUTION! Make sure the pool vacuum is always facing downwards when it is placed into the pool / spa / hot tube. Otherwise it may bend the pole connector and damage it during the process.

2) To remove the pool vacuum from the pool / spa / hot tube, lift the pool vacuum while pointing it downwards in order to allow water to escape from the outlet valve. Water is going to escape via the handle / pole connector and draining holes inside the handle chamber on the rear body.

CAUTION! Make sure the pool vacuum is always facing downwards when it is removed from the pool / spa / hot tube. Otherwise, the pole connector may be bent and damage the pool vacuum in the process.

3) Rinse the pool vacuum with fresh water after every use. DO NOT use any detergent.

Emptying The Filter Bag

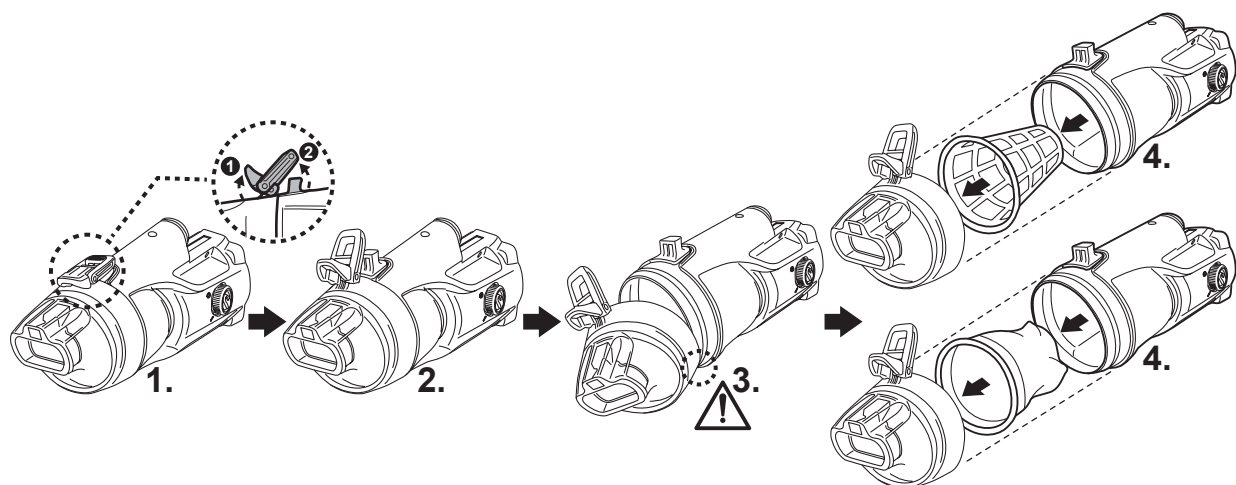
WARNING! Using the pool vacuum without a filter bag/filter cage in place will VOID your warranty.

In order to maximize the cleaning efficiency, be sure to clean the filter bag/filter cage before and after each use.

CAUTION! If the pool vacuum is charging, disconnect the external adaptor from the power source and detach the pool vacuum from the charging base. Make sure the pool vacuum is OFF.

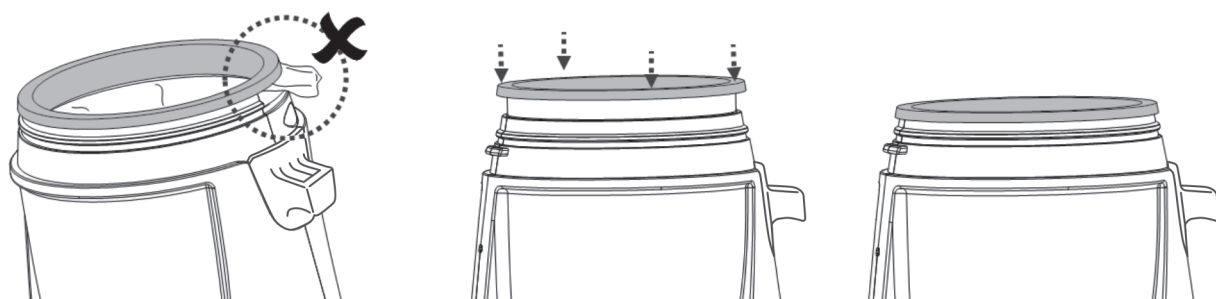
Emptying The Filter Bag/Filter Cage

- Place the pool vacuum on a stable surface.
- Pry the lever of the latch to disengages the latch bolt from the catch. Slide the canister away until the notch on the bottom of canister opening is released from the hook on the bottom of main body. Remove the filter bag/filter cage from the main body.

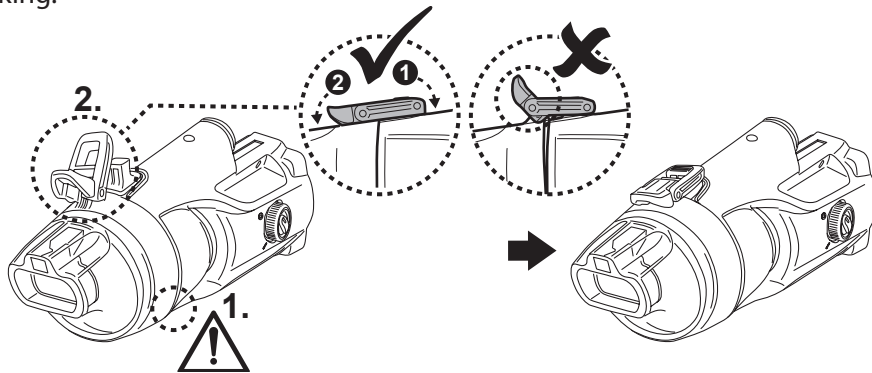


CAUTION! Replace the damaged filter bag/filter cage immediately before the next operation.

- Clean out the debris and rinse the filter bag/filter cage with water. If brushing is deemed necessary, use only a soft brush to clean the filter bag/filter cage gently and carefully.
- Re-position the filter bag/filter cage inside the main body. Make sure the filter bag/filter cage is completely inserted inside the main body. Make sure the net is completely inserted inside the main body and does not stick out.



To re-install the canister, first align the notch of the canister with the hook on main body and then press the canister onto main body. Align the latch bolt to the catch and press down the lever completely to secure the locking.



Maintenance & Storage

NOTE:

- 1) Be sure to clean and dry the charging contact plates 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 charge the pool vacuum to about 30% to 50% of the battery capacity before it is stored.
- 3) You must re-charge the battery at least once every three months when it is not in use.
 - Unplug the external adaptor from socket and then unplug the adapter jack from the charging base.
 - Detach accessories from the pool vacuum. If necessary, rinse the pool vacuum and accessories with fresh water. DO NOT use detergent.
 - Make sure to drain the water from the unit, handle and pole connector.
 - Use a damp cloth to clean and dry the pool vacuum and its accessories.
 - Store them in a well-ventilated area away from the sunlight, children, heat, ignition sources, and pool chemicals. Ambient temperature for storage should be 10°C – 25°C (50°F – 77°F). NOTE: A higher temperature may reduce the battery life during storage.

WARNING!

- Never attempt in any way to disassemble the pool vacuum.
- Under no circumstances should you attempt to disassemble the pool vacuum and replace the impeller, motor and battery by yourself.

CAUTION !

- Excessive heat can damage the battery and reduce its lifespan as a result.
- Consult your dealer 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 pool vacuum before it is scrapped.
- The pool vacuum must be disconnected from the supply mains when removing the battery
- The battery is to be disposed safely and according to 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 authorized technician)

Your pool vacuum battery is a maintenance-free rechargeable lithium-ion battery pack, which must be disposed properly. Recycling is required; please contact your local authority for 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 pool vacuum.
- 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 allowing them to make contact with 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 pool vacuum.
- Do not expose the battery to fire or intense heat as this may result in an explosion.

CAUTION!

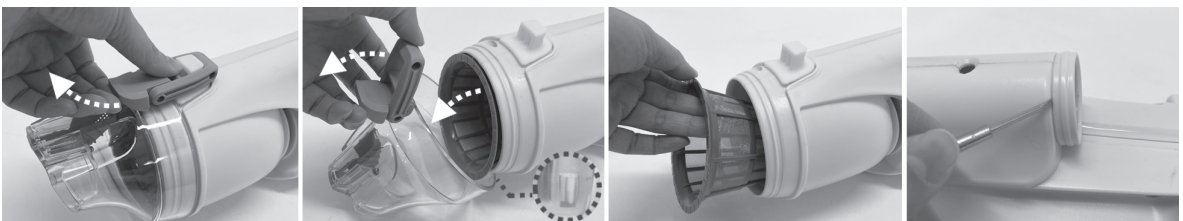
If a battery leak occurs, avoid contact with the leaking fluids and place the damaged battery in a plastic bag.

- 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, immediately flush eyes with cool running water for at least 15 minutes and do not rub them. Seek medical attention as soon as possible.

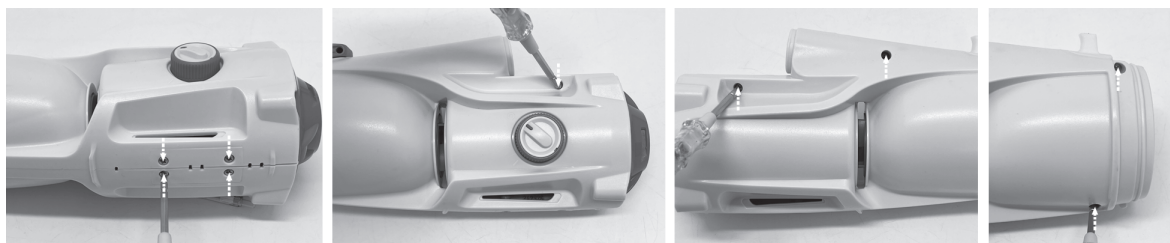
How to remove the battery pack for battery disposal only (To be done by authorized technician)

Recommended tools (not included): Philips screwdriver and small slot screwdriver.

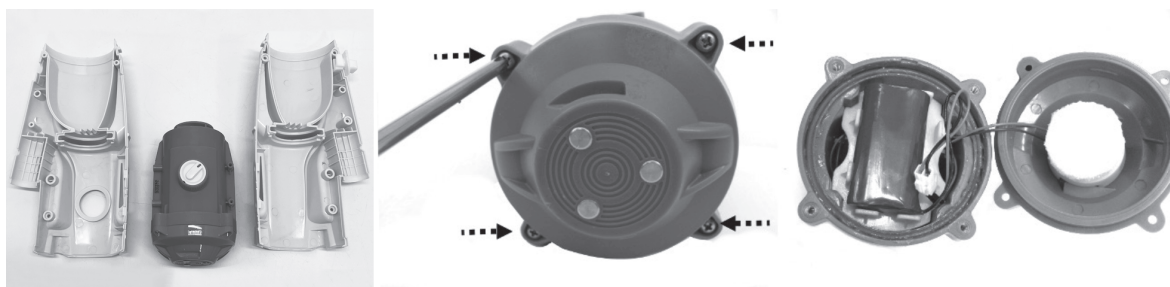
- 1) Press on the locking button and detach the clear canister from the body. Use a small screwdriver to detach the ring from the body. It is hard to detach the ring by screwdriver, use cutting plier to cut.



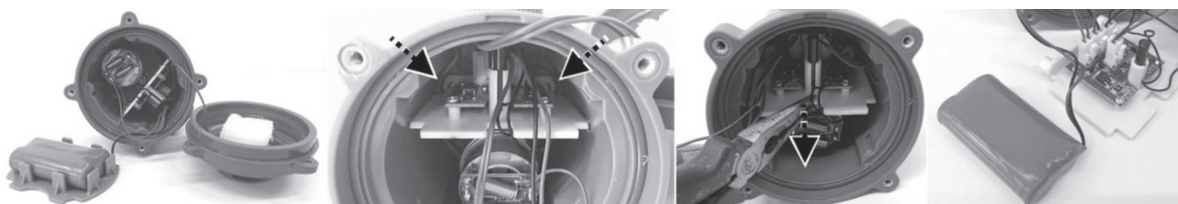
- 2) Use Philips screwdriver to unscrew all the screws on the main body.



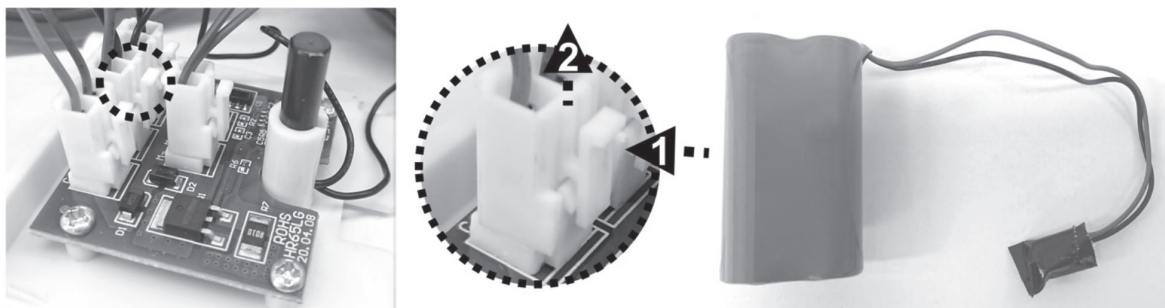
- 3) Separate the body in two halves to access the main chamber. Use a Philips screwdriver to remove the end cover and access the battery pack.



- 4) Use Philips screwdriver to unscrew screw on the corner of the supporting plate as pointed at. Use clamp to catch the plate and pull it out to expose the wire connectors on the PCB.



- 5) Locate the middle connector as indicated, press the clip on the connector and pull it out. NOTE: Wrap the connector immediately with insulating tape in order to avoid short circuit caused by the contact of both wire terminals.



TROUBLESHOOTING

Problem	Possible Cause	Solution
Pool vacuum does not capture debris	Battery is running out	Charge the battery again.
	Impeller is jammed	Power off the pool vacuum and visually check the gap in the middle of the pool vacuum to see if the impeller is jammed by large debris. If possible, use a small tool to remove the debris carefully. If necessary, contact your dealer for further instructions. WARNING! Make sure the pool vacuum is powered off when the unit is being serviced.
	Impeller is broken	Contact your dealer for impeller replacement.
	Filter bag/filter cage is full	Clean the filter bag/filter cage.
Debris escapes from the filter	Suction nozzle flap is broken	Suction nozzle flap works like a door to prevent debris from escaping from the filter. Contact dealer for replacement part and instructions.
	Filter bag/filter cage is damaged	Replace with a new filter bag/filter cage.
	Outlet valve comes off	Without the outlet valve, the pool vacuum might capture debris through this opening. Contact dealer for a valve replacement.
Telescopic pole connector cannot be secured in assembly	Side pin on pole connector is broken	Replace with a new pole connector.
Pool vacuum is activated even though the switch indicates it's off	Presence of magnetic objects nearby has inadvertently switched on the motor.	Move the magnetic objects or vacuum away from each other.
Pool vacuum cannot be charged / recharged	Battery is damaged	Contact dealer for battery replacement. WARNING! DO NOT open the pool vacuum and replace the battery by yourself. This could result in severe or fatal injury and the warranty will be voided as a result.
	Charging plates on charging base and pool vacuum are not contacted properly	Make sure that the charging base is assembled on the pool vacuum completely and their contact plates are contacted properly.
	External adaptor damaged	Contact dealer for replacement. WARNING! Using the wrong external adaptor will result in damaging the pool vacuum / battery and voiding the warranty as a result.
Pool vacuum does not move smoothly	Wheel is jammed	Clean out the debris from the wheel.
Operation time is shorter as expected	Battery is not fully charged	Charge the pool vacuum for at least 6 hrs. NOTE: if any stains are found on the charging contact plates, remove them by using a cotton bud soaked with lemon juice or vinegar.
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