madimack

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gt freedom mini

Installation Manual

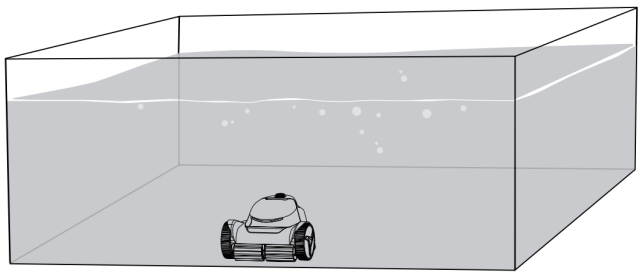
quick connect technology

WELCOME

This is the instruction manual for your Madimack's GT Freedom Mini. This guide will help you understand the operation and maintenance of your filter, ensuring clean and clear pool water for your enjoyment.

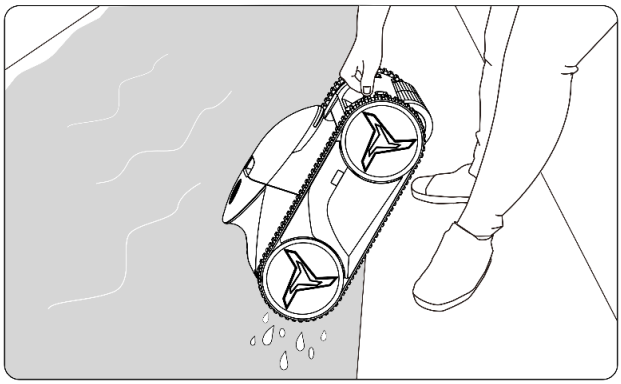
HOW TO ACHIEVE THE MOST EFFICIENT CLEANING

Place the robot at the edge of the pool for quick coverage of the entire pool area.

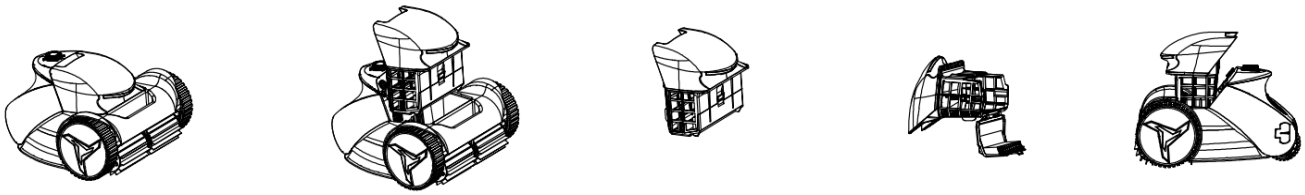


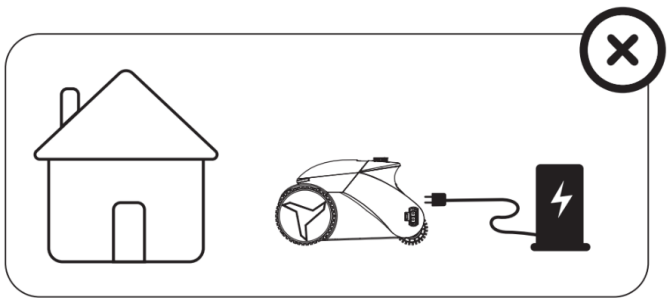
HOW TO DRAIN WATER FROM THE ROBOT

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

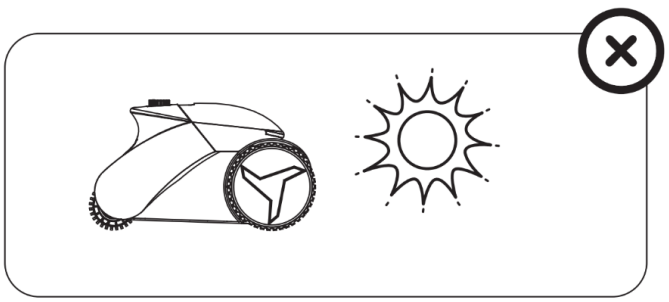


HOW TO OPEN THE FILTER BOX





Do not charge the robot outdoors.



Do not long-term expose the robot to the sun.

WARNINGS

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

GENERAL WARNINGS

• Read the instructions before operating the robot.
• The robot is designed for pool cleaning; do not use it for other purposes.
• Keep the robot out of reach of children or persons with reduced physical, sensory or mental capabilities without supervision or instruction.
• The robot must be installed, operated and maintained as specified in this manual.
• The robot is to be installed in accordance with manufacturer's guidelines and in compliance with the relevant requirements of the local or national standards for installation. The manufacturer is not responsible for any outcome related to the failure to comply with installation, usage or maintenance guidelines.
• Incorrect installation or use of the robot may cause serious damage to property or injuries to people.
• Do not enter pool while the robot is in water.

WARNINGS ON USE

• Only use the detachable supply unit provided with the robot to recharge the battery. It is suggested to operate the power supply at least 3.5 meters from edge of pool.
• Disconnect the robot from the power supply and power knob is OFF before performing any maintenance on the robot.
• Do not try to repair the robot yourself or open motor box in case of malfunction, please contact your dealer.
• If there is any malfunction or release of odor from the robot when charging, disconnect it from the power supply immediately and contact your dealer.
• Use only original replacement parts supplied by the manufacturer for service and repair.

GENERAL OPERATION CONDITIONS

Water depth range (m)	Water temperature (°C)	pH	NaCl (PPM)	Chlorine (PPM)
1-2.5	4-35	7,0-7,8	5,000 MAX	4 MAX

Note: water temperature below 15°C, the endurance time may be affected.

• The robot is recommended for private pools.
• The robot will automatically stop running if the water depth is less than 40 centimeters for the purpose of motor protection.
• Do not use the robot during shock chlorination.
• Do not use the robot in thunderstorm or stormy weather.
• Do not expose the robot to direct rainfall or sunlight for an extended period.

CAUTIONS

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

• Hold the robot by the pool edge to let the water drain out before lifting from the pool, do it slowly so as to prevent back injury.
• Clean the filter basket after each cleaning cycle.
• Do not lift the robot out of water by roller.

REMINDER

Storing your robot:
a. Ensure the robot is fully dry before storage. This prevents degradation or damage to the motors or internal structure.
b. The filter basket should be cleaned thoroughly after usage and do not leave dirt or debris to dry in filter basket.
c. The charger cable is stored neatly without twists whilst in long-term storage.
Optimum storage temperature between -10-45°C and storage humidity between 30%-70%/RH.

TABLE OF CONTENTS

SECTION 1. PRODUCT OVERVIEWS 5
1.1 Packaging Content 5
1.2 Technical Specification 6
1.3 Preparation 7

SECTION 2. OPERATION 8
2.1 Overview of Control Panel 8
2.2 Operation on the display of the unit 9
2.3 Cleaning the filler basket 10
2.4 Charging the robot 11

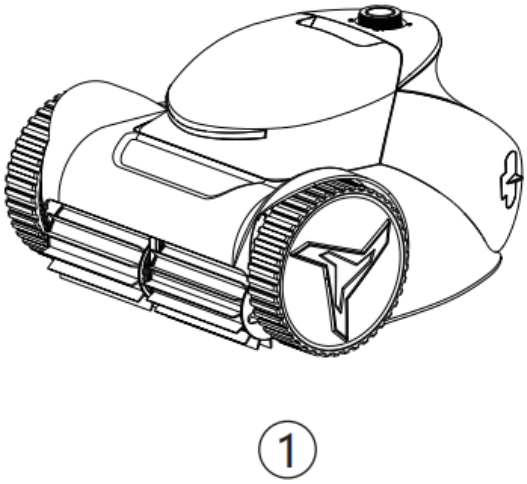
SECTION 3. MAINTENANCE 12
3.1 Filter maintenance 12
3.2 Impeller maintenance 12
3.3 Replace the worn brushes 13

SECTION 4. TROUBLESHOOTING 14

SECTION 1. PRODUCT OVERVIEWS

1.1 Packaging Content

The following items are included in the packaging of the robot. Please contact your dealer for any damage or loss.



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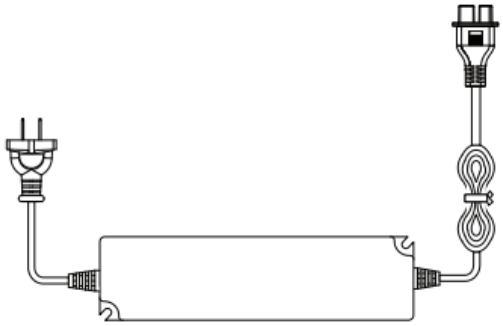

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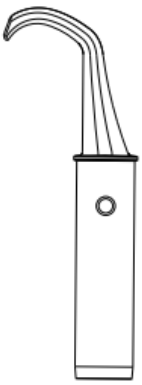

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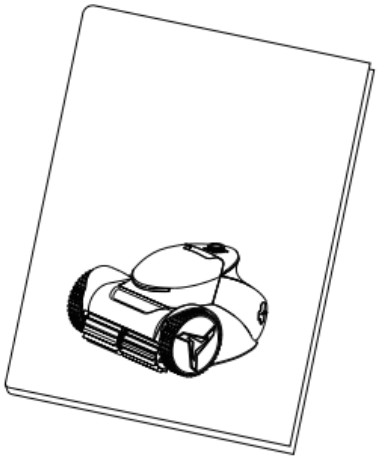


4

1. The Robot **2. Charger** **3. Hook** **4. User Manual**

Note:

Power knob is ON when using or charging. Power knob is OFF for battery protection if **not using the robot**.

1.2 Technical Specifications

Model	GT Freedom Mini Cordless Robotic Pool Cleaner
SKU	FreeMiniNA
Endurance time	2.0h
Charging time	3.0h
Battery	7.8Ah (196Wh)
Pool Temperature	4~35°C
Cleaning mode	Floor only
Cleaning time	1h/1.5h/2h/Full Run
AI timer	NO
App application	NO
Filter capacity	3.2L
Filtration rating	18 0μm
Pump flow rate	18-15 (m³/h)
Running power	20-100W
Moving speed	10 m/min
Number or motors	3
Charger input	100-240VAC ~ 50/60Hz
Running voltage/current	25.2V/1.5A
Robot NW	6.5kg
Robot dimension (L*W*H)	440*400*238mm
Robot packaging dimension (L*W*H)	504*450*300mm

** Parameters are for reference only please refer to the nameplate for product specifications.*

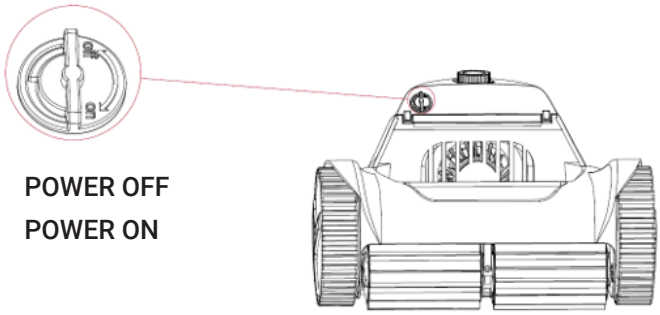
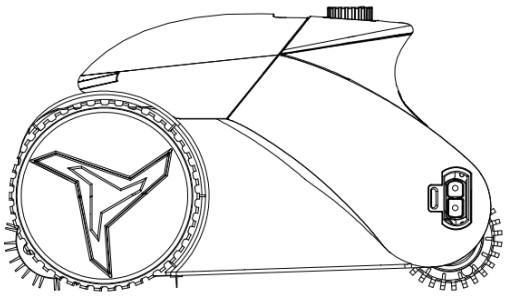
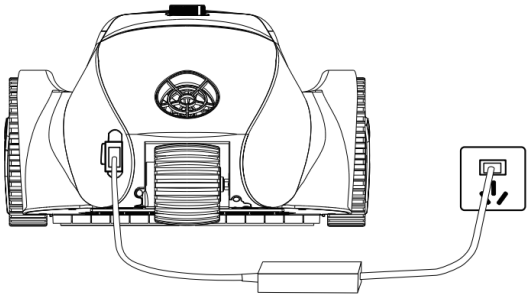
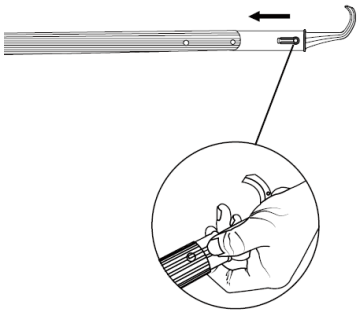
** Endurance times are affected by water temperature, pool shape, filter capacity. Endurance testing performed on a clean 6x3m pool.*

Cleaning time reference:

1. Clean once in Floor mode: 30 minutes (4*8m swimming pool as an example).

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

1.3 Preparation

1. Turn ON/OFF power  POWER OFF POWER ON	2. Remove the plug cover. When fully charged, cover the plug again. 
3. Connect to the power(100-240V) supply using the charger supplied. Battery 3 bars lights on:Battery level: 100% Fully charge the robot before the first use. *Suggested Charging Temperature: 6-35°C 	4. Install the configured hook on the rod, (rod is exclusive). 

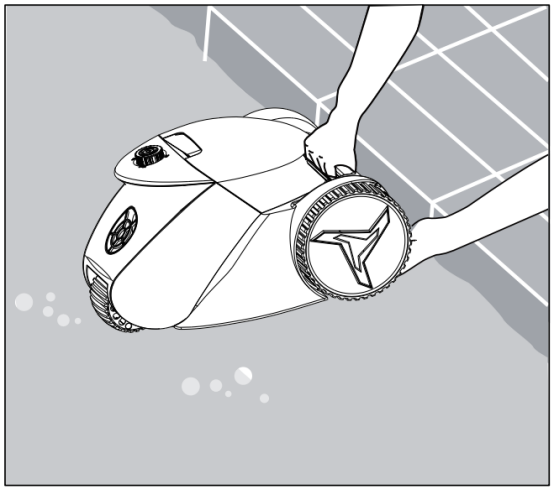
SECTION 2. OPERATION

To prevent possible damage to the robot or people, be sure to follow these guidelines:

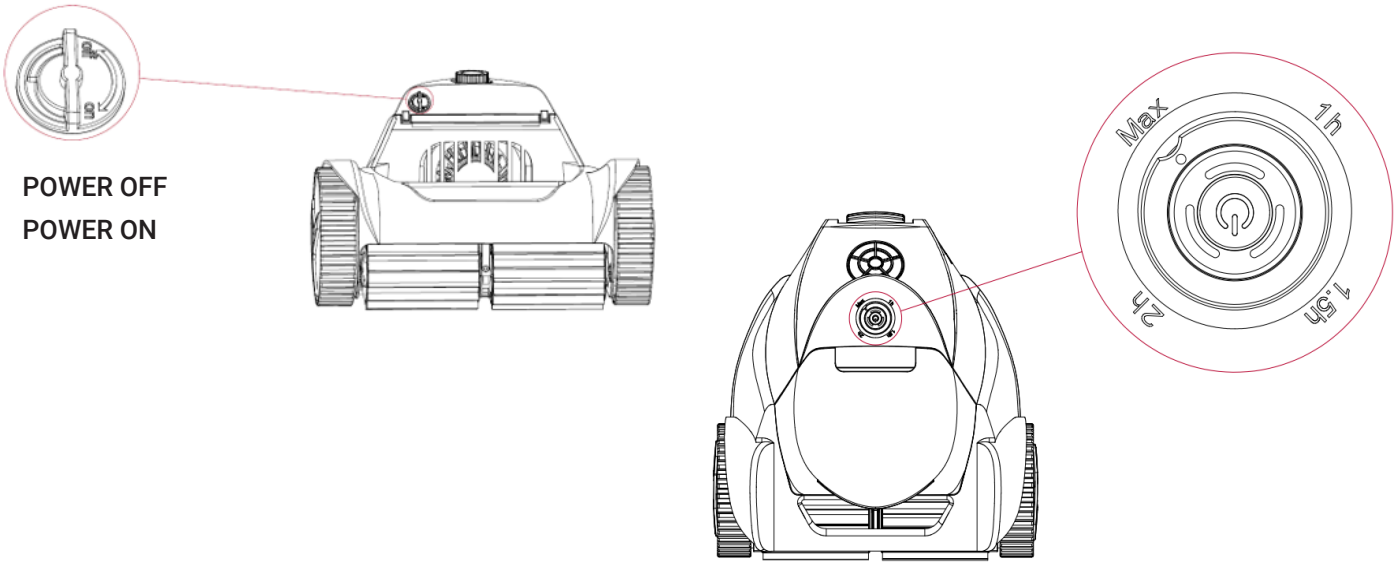
- After cleaning is completed, place the robot in a cool dry place away from direct sunlight.
- Take care when moving robot from pool and allow water to drain from robot before lifting.

IMPORTANT

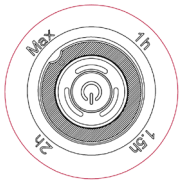
- Once the robot is set up, drop into the water within 3 minutes or the robot will enter sleep mode.
- Clean the filter basket after the cleaning cycle. Avoid cleaning the surface of the filter box directly with your hands.
- The robot has a safety feature that automatically stop running if the water depth is less than 40 centimeters.
- Turn the robot in all directions to release any air trapped in the robot before it enters the water. Shown below.



2.1 Overview of the Control Panel



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

Type of button	Icon	Display status	Description
Power switch		Lights (Green/Blue) flashing	Setup status
		All lights go out	Sleep/Power OFF status
		Lights being on	Running/Inspection under water status
Cleaning time		Arrow pointing 1h	Cleaning time: 1H
		Arrow pointing 1.5h	Cleaning time: 1.5H
		Arrow pointing 2h	Cleaning time: 2H
Cleaning mode		Green lights being on	Floor cleaning mode
Battery light (Non-charging status)		1/2/3 lights being on	Battery level: 20-100%
Low battery		1 light flashes	Low battery
Battery light (Charging status)		3 lights flash in cycle	Charging
		3 green lights being on	Battery level: 100%

2.2 Operation on the display of the unit

1. Press the power on/off knob, the buzzer will beep and the light will flash.
2. Rotate the button arrow to select the cleaning time.
3. Please align the notch on the knob with the time you want to select (as shown below).
4. After the setting is completed, put the product into water to start cleaning. This product will automatically start cleaning when it touches the floor. If there is no operation on the robot within 3 minutes, the product will stop running and enter sleep mode.

Note:

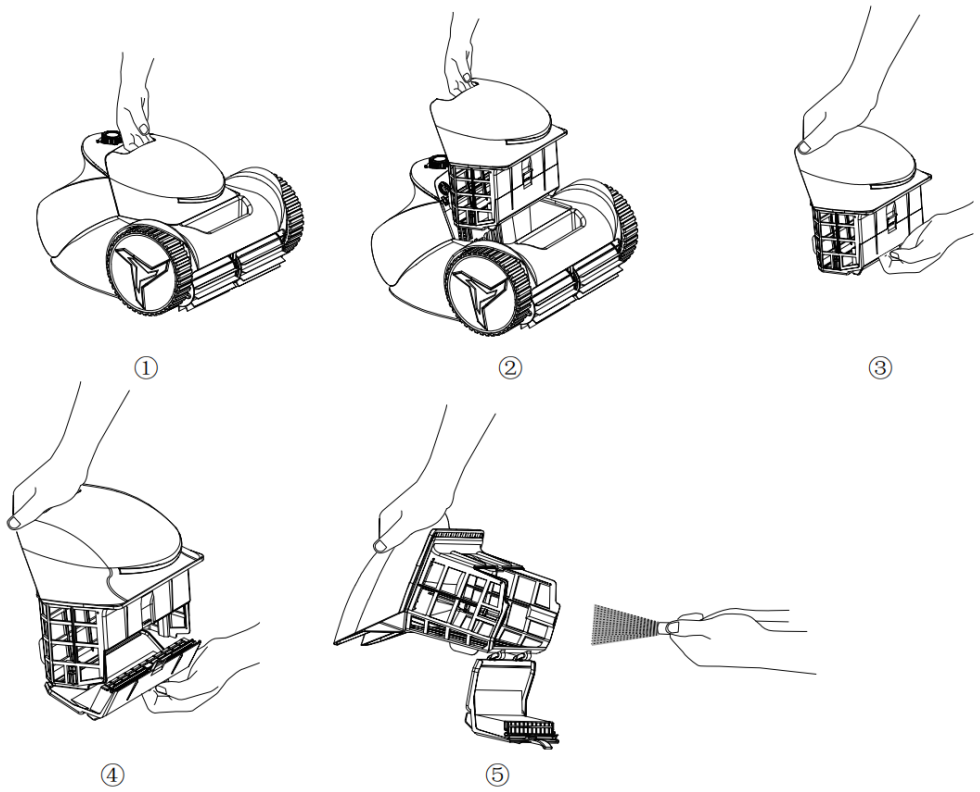
Please ensure that the notch on the knob is aligned with the set cleaning time. If the notch on the knob exceeds the cleaning time, the time on the left side of the notch on the knob will be used.

2. If the battery is less than 15% during the cleaning cycle, will keep flashing a light, the robot will self-park at the pool side. It will enter sleep mode after 3 minutes.

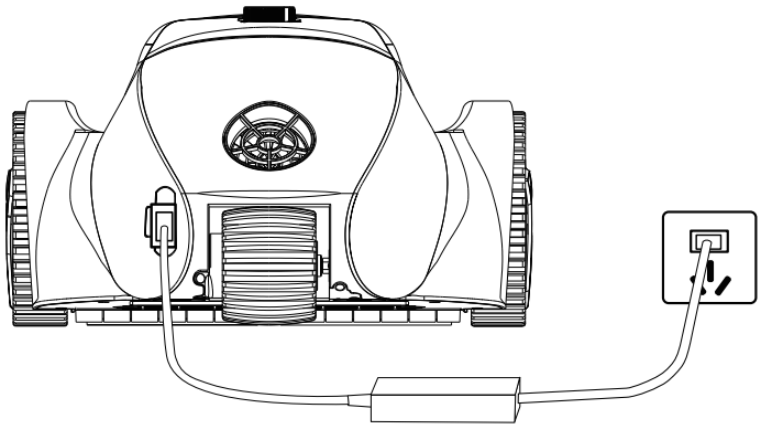
3. Device reset: keep the device in the charging state ,press and hold the button for 3 seconds. After the buzzer beeps, the reset is successful.

2.3 Cleaning the filter basket

After a cleaning cycle, the robot will self-park at the pool side. Use the hook to catch the handle and lift the robot out of the water, drain the water from the robot and clean the filter basket as shown below:



2.4 Charging the robot



1. Plug the adapter into power supply and the light cycles on and off.
2. Open the cover of the robot's plug to plug the adapter.
3. If all lights being on, the robot is fully charged.
4. Before charging, make sure charging port is dry.
5. Disconnect the charger after charging to protect the battery.
6. If the robot needs to be stored for long time, it should be fully charged at least every three months to protect.

Note:
Use the original power adaptor with the robot ONLY.

SECTION 3. MAINTENANCE

1. To avoid electric shock and other hazards which could result in major injuries, disconnect the adapter from the power source before performing any cleaning and maintenance.
2. Before any maintenance, Power knob is OFF to avoid injuries caused by impeller rotation.

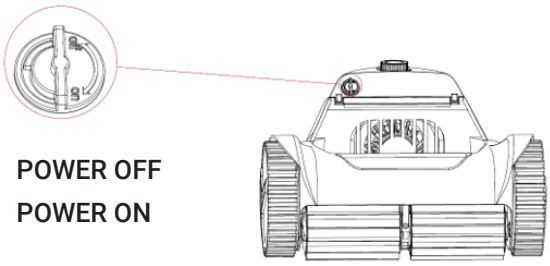
3.1 Filter Maintenance

1. Clean the filter thoroughly and regularly for improved operation and battery performance.
2. Annually clean the clogged filter with mild detergent, suitable safety equipment must be worn when during the process.

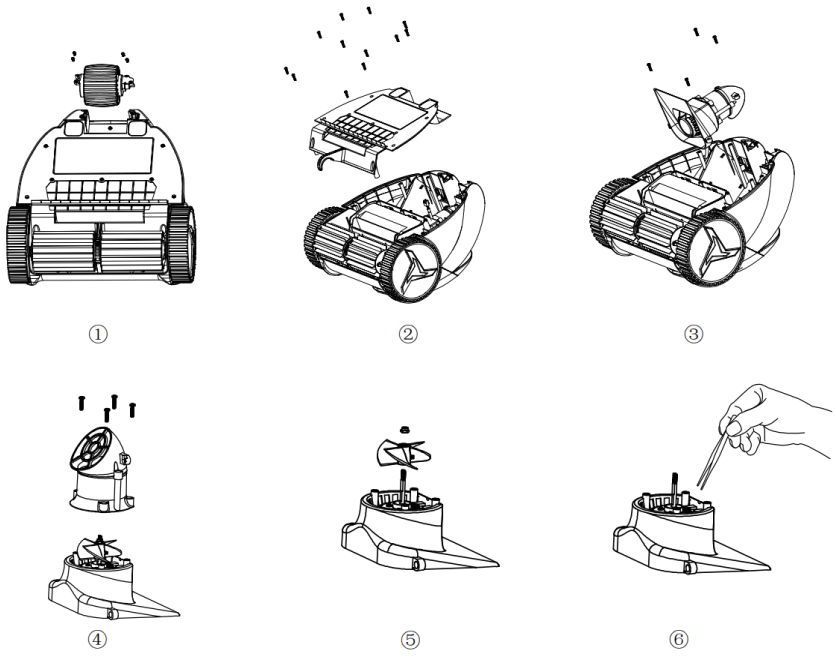
3.2 Impeller Maintenance

Visually check whether the impeller or impeller shaft is entangled with hair or other debris when the robot has a reduced suction or climbing performance, clean the debris trapped in the impeller.

***The power knob MUST be OFF before any maintenance on the impeller.**



Follow the steps below:

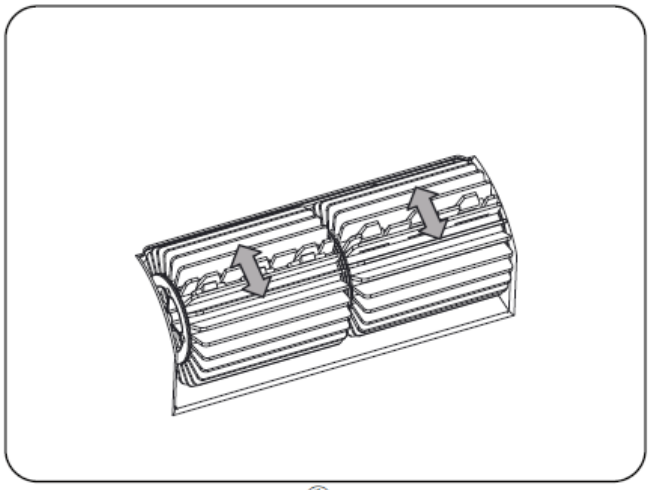


1. Remove the rear wheel fixing screw and take out the rear wheel.
2. Remove the fixing screws of the bottom cover and take out the bottom cover.
3. Remove the fixing screws of the water pump motor cover assembly.
4. Remove the screws that fix the air deflector and take out the air deflector.
5. Remove the impeller fixing screws and take out the impeller.

Note:
If you have any difficulty with impeller maintenance, contact the dealer for assitance.

3.3 Replace the worn brushes

Remove the worn brushes and position the new brushes:



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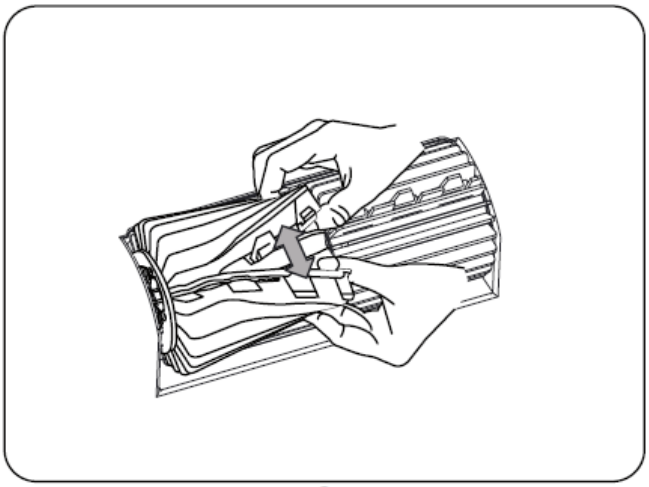

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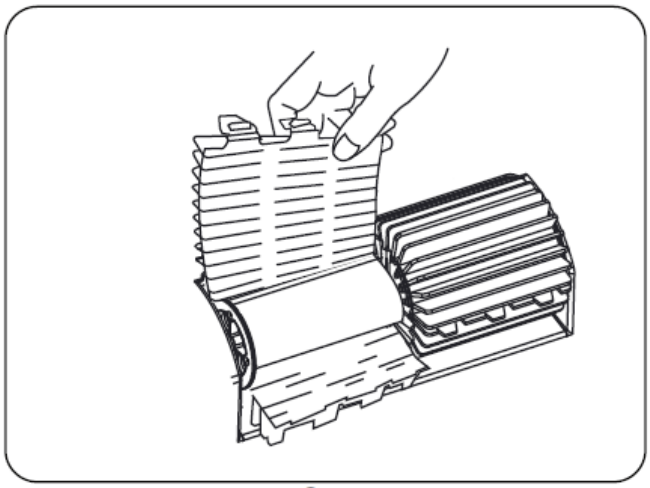

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1. Unfasten the tabs from the holes and remove the brushes.
2. Fit the side without tabs under the new brush holder.
3. Roll the brush around its support, slide the tabs into the attachment holes and pull on the end of each tab until its edge passes through the slit.

SECTION 4. TROUBLESHOOTING

Failure	Possible reason	Solution
Charging failure	Debris on the electrode of charging head (non-failure)	Clean debris
	The charging kit is damaged	Replace the charging kit
Switching on failure	The power know if OFF (non-failure)	Turn on the power
	Wrong operation (non-failure)	Hold the power button for 3 seconds
	No power in the battery (non-failure)	Get the robot fully charged
Not working (not moving, not pumping)	Low battery (non-failure)	Out of water (Non-failure)
	Out of water (non-failure)	Make sure the robot under water and the indicator lights are on
	No pressing the on/off button after settings are done (non-failure)	Press the on/off button after the settings are done, make sure indicator lights are on before putting the robot into water
	Full load of filter basket (non-failure)	Clean the filter basket
Moving but not pumping	The impeller gets stuck	Check whether there is too much debris in the guide ring, affecting the rotation of the impeller. (Turn the battery isolation dial to off to avoid injuries caused by the impeller rotation)
	Full load of filter basket (non-failure)	Clean the filter basket
	Water inlet is blocked(non-failure)	Take out of filter basket and clean water inlet
	Battery low (non-failure)	Get the robot fully charged
Pumping but not moving	The moving motor gets stuck	Please contact the dealer for a replacement
	The track is deviated and stuck (non-failure)	Turn the robot upside down and roll the track forward and backward to restore the track
	Track is damaged	Replace track
	Scrubber gets stuck (non-failure)	Clean scrubber
	The robot gets stuck by obstacle and shut down for auto-protection (non-failure)	Remove the obstacle and restart
	Full load of filter basket (non-failure)	Clean the filter basket
	Under floor cleaning mode (non-failure)	Turn to overall cleaning mode

Failure	Possible reason	Solution
Poor cleaning capability	Battery low (non-failure)	Get the robot fully charged
	The impeller is stuck	Remove any debris or hair in the guide ring
	Full load of filter basket (non-failure)	Clean the filter basket
	Water inlet blocked (non-failure)	Take out of filter basket and clean the water inlet
	Scrubber is damaged	Replace scrubber
	Filter basket is damaged	Replace filter basket
Unusual non-stop	Software failure	Turn the battery isolation dial to off for 1 minute

Note:

1. Do not use the robot when people or animals are in the pool.
2. Charger **MUST BE DISCONNECTED** before performing any maintenance on the robot.
3. Contact dealer for problems not include in Trouble Shooting Guide.
4. Normally, the robot will stop at the poolside when it encounters any failure or when the battery is less than 15%.
5. If the robot is malfunctioning, the light on the control panel flashes red. Restart the robot might remove the error warning and allow operation, if error occurs again, please check troubleshooting guide.

INDOOR

For switch power supply indoor use only.

RECYCLING

The robot contains a Lithium-ion battery, which should be recycled by qualified battery electronics recyclers. Recycling of batteries and battery-containing products benefits the environment and human health.
Do NOT disassemble or dispose of the battery in the rubbish or municipal recycling bins.

WARRANTY EXCLUSIONS

Warranty is invalid if any of the following apply:

- Incorrect operation of the unit by not following correct instructions.
- Damage caused to the robot due to misuse or damage caused by any other means than manufacturer defect.
- If robotic pool cleaner is repaired or serviced by an unauthorized dealer or service station.
- If an unauthorized service station damaged battery seal.
- If you overcharge the battery by using a non-specified input power adapter.
- If you cause a fault in the operation of the machine by using non-specified accessories.

Limited Warranty

Standard Conditions: Madimack Electric Inc. (Canada) provide the following limited warranties. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

IMPORTANT - Full Terms and durations:
For a complete list of warranty periods and product-specific terms, please visit the warranty section at www.madimack.com/ca

Statutory Rights: This document sets forth the comprehensive terms and conditions governing the warranty provided by Madimack. These terms are in addition to, and not a modification of or subtraction from, the statutory warranties and other rights and remedies contained in applicable local legislation, including the Quebec Consumer Protection Act where applicable.

Limited Warranty Coverage: Please visit www.madimack.com/ca for full duration and product-specific terms. Madimack will, at its discretion, repair or replace any product proven to be defective in materials or manufacture during the warranty period. This warranty applies to domestic installations only, is personal to the original purchaser, and is non-transferable.

Exclusions: To the extent permitted by law, Madimack excludes all statutory or implied conditions and warranties. Madimack shall not be liable for any incidental or consequential damages (such as water loss or damage to surrounding structures). The following exclusions apply:

- Incorrect installation or operation resulting from failure to follow provided instructions.
- Damage caused by misuse, neglect, or "acts of God."
- Repairs or servicing performed by unauthorized dealers.
- Faults caused by the use of non-specified accessories or chemicals.
- General wear and tear of consumable items (e.g., seals, O-rings).

Procedure for Warranty Claims:

1. Initial Contact: Owners must contact Madimack via the online portal at www.madimack.com/ca or the support numbers listed below.
2. Remote Troubleshooting: A service agent will attempt to resolve the issue via phone or email.
3. Service Type Determination:
    a. Return-to-Base: For portable or shippable units, you are responsible for disconnecting and transporting the product to an authorized service center. You are responsible for all freight and insurance costs to and from the supplier.
    b. On-Site Service: For fixed equipment, Madimack may coordinate an on-site technician. You are responsible for providing clear and safe access to the unit.
    c. Labor & Removal: You are responsible for the costs of removing the defective product and reinstalling the repaired/replacement product.

Required Documentation: All claims must include:

1. Proof of original purchase (Invoice with owner name and address).
2. A "Goods Return Authorization" or Service Ticket number provided by Madimack.

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https://madimack.com/ca

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