Mamibot

EXVAC680S

VSLAM VERSION
ROBOT VACUUM CLEANER

User Manual

Greetings from Mamibot

Thanks for purchasing EXVAC680S smart cleaning robot which is a top level Vslam navigation robot.

We hope that our product will bring you a smarter and more convenient lifestyle.

If you encounter any problem not mentioned herein, please contact sales@mamibot.com.

For more details, please visit our official website: http://www.mamibot.com
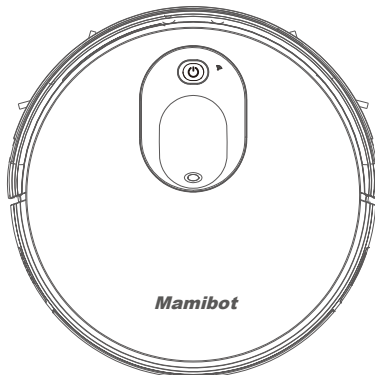
The image above is for illustration purpose only; the acutal product may differ.
Our comopany reserves the right to upgarde products without notice.

Menu

Wi-Fi Setup Instructions

1

App downloading

Scan the QR code (Figure 1) to download and install "Weback" APP,or search "Weback" to download it.
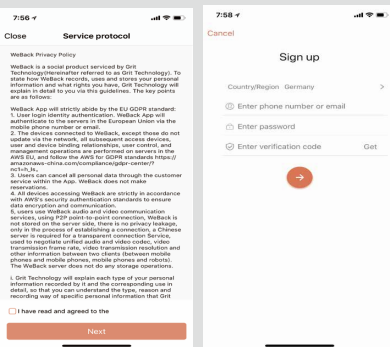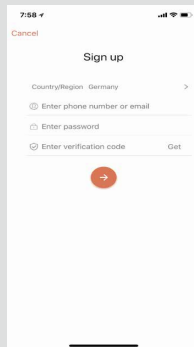
IOS

Google Play

Figure 1

2

Log in/Register Weback ID

If you have already got an weback ID,please log in and start from ADD DEVICE " ▣ " (Figure 4); if you are new user of weback,please start from Registering weback ID. Follow instructions of the APP until your registeration is completed. Then start from ADD DEVICE. You can use a mobile phone number or an email account for registration(Figure 2,Figure 3).
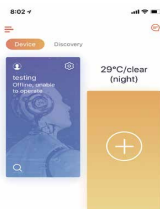
Figure 2

Figure 3

3

Add Device

Scan the QR code of EXVAC680S from bottom of EXVAC680S or the QR code in Figure 6,or manually input the QR code/Barcode(exvac-680s-).

exvac-680s

Figure 4

Figure 5

Figure 6

To perfefct the products, we keep the right of updating the APP and the software. The final interface is subject to the actual products, thank you.
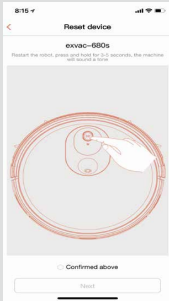
Wi-Fi Setup Instructions

Wi-Fi Setup Instructions
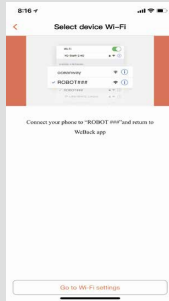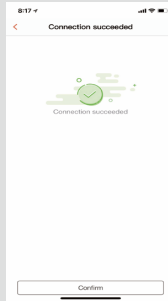

Figure 7   Figure 8   Figure 9

4

Activate the device

Follow instructions of APP step by step until your device is connected to APP successfully(Figure 9).

Attention:

The device only supports 2.4G network 5G network is not availble yet.

5

Operate EXVAC680S via APP

When you see the APP enter interfacea Figure 10,you can start using APP to control your EXVAC680S.Tap the device to enter the main interface of APP (Figure 11), from this interface you can choose different cleaning modes, also to check the cleaning process/status. Tap the "more" Key(Figure 11) to enter the multi-functional panel (Figure 12).
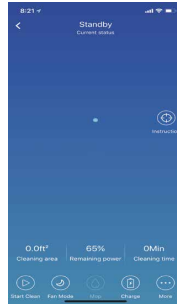

Figure 10   Figure 11   Figure 12

6

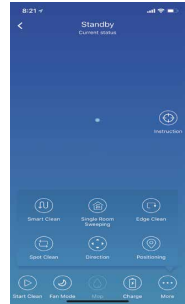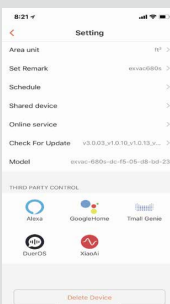Figure 13   Figure 14   Figure 15.Device Icon

Setting your EXVAC680S

Press the Device icon as Figure 14,15 to enter the "Setting" interface(Figure 13): rename the robot, set the shedule, share your robot, check for updates or collect to the third-party.

To perfefct the products, we keep the right of updating the APP and the software. The final interface is subject to the actual products, thank you.

Before using this product, please read the safety instructions below and follow all the routine safety precautions.

Please read the Instructions carefully and keep them for future reference. Any operation that does not conform to the Instructions may cause damage to the product.

Safety Considerations of Main Body and Accessories

⚠ **Warning**
01. Do not disassemble, repair or refit the product without authorization; otherwise it may damage the product or pose a hazard.
02. Do not use the product in an environment with risk of fire or explosion.
03. This product can only use the original power adapter; otherwise the product may be damaged or catch on fire.
04. Do not stand or sit on this product; doing so could damage the product or cause it to fall over.
05. When the metal part of the power plug is dusty, please wipe it with a dry cloth.
06. The power adapter is applied to a 100-240V AC voltage. Please plug into the socket properly and keep away from children.
07. Do not wash or soak the main body and electronic accessories in water; otherwise the product may be damaged by a short circuit.
08. Do not damage, load weight on, heat, pull, or bend it.
09. During cleaning, please pay attention to the safety of toddlers and elders at home to avoid tripping, and please do not touch the wheel and side brush to avoid injury. (Please pay special attention to toddlers).
10. This product is for home use. Please do not use it outdoors.
11. Do not allow metal and conductive materials to come in contact with the battery; doing so may cause a short circuit.

⚠ **Attention**
01. Do not touch the product with wet hands; doing so may cause an electric shock.
02. Please do not place the product in places where it could easily fall, such as tables, chairs, high platforms in room, etc.
03. The product has a sophisticated design and should be protected from

long-term exposure to sunlight.

04. Please do not use the product in humid environments, such as bathrooms.

05. Please do not place the product near cigarette butts, lighters or other open fires.

06. Please clean the product after cleaning.

07. Please turn off the power switch on the side of the robot when the product is out of service for a long time.

08. Please check carefully to see if the power adapter is connected to the socket prior to use, to avoid damage to the robot.

09. Before using the product, please remove all vulnerable items on the floor, such as glass, lamps, and items such as wires and curtains that may entangle with the side brush and suction passages.

10. When the dust box is full, please empty the garbage before using again.

11. Please do not use the robot to clean construction waste.

12. The operating temperature of the product ranges from 0 degrees Celsius to 40 degrees Celsius; please do not use it in a high temperature environment.

13. Before the product is scrapped, please remove the battery from the robot. When you remove the battery, please ensure that the product is not connected to a power supply. Please recycle the battery safely for environmental protection.

Safety Considerations for Rechargeable Battery

ⓘ Danger

01. Always use a dedicated battery adapter to avoid leakage, heating or rupture.

02. Do not short-circuit the battery or remove the battery; doing so may cause leakage, heating or rupture.

03. Do not transport or preserve with necklaces, hairpins and other metal objects; doing so may lead to short circuit, resulting in leakage, heating or rupture.

04. Do not burn or heat the battery; doing so may cause leakage, heating or rupture.

Safety Instruction

① **Attention**

01.If abnormal overheating is discovered during charging, stop using it imme-
diately to avoid leakage, heating or rupture.

02.To prolong the service life of the battery, please remove the battery and
place it in a cool, dry environment if it is out of service for a long time; this
will avoid leakage, heating or rupture.

03.Do not soak it in water or let it come into contact with any liquid; other-
wise it may cause leakage, heating or rupture.

04.Be sure to stop using it immediately in case of any exception (e.g. discolor-
ation or deformation), to avoid leakage, heating or rupture.

05.Always use tape to insulate the battery's electrode when recycling or
disposing of it.

⚠ **Warning**

01.When skin or clothing is exposed to the battery electrolyte, immediately
wash with clean water to avoid inflammation of skin, etc.

02.Do not use the rechargeable battery on other devices. This battery is only
suitable for smart sweeping robots.

03.If the battery's outer box is found to be deformed and expanded, or
leakage of electrolytes is found, do not charge or continue to use to avoid
danger.

04.Do not throw or inflict a strong impact on the battery; doing so may cause
leakage, heating or rupture.

05.Do not disassemble the battery pack; doing so may cause battery rupture
and electrolyte outflow, leading to fire, explosion and other dangers.

06.How to remove the battery:
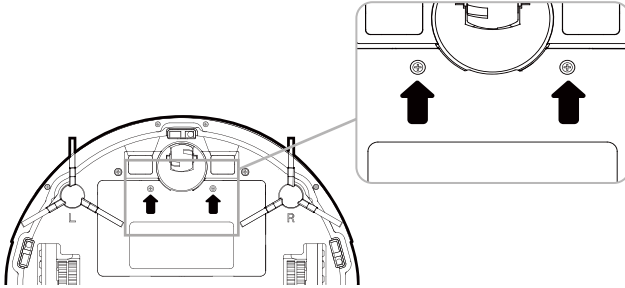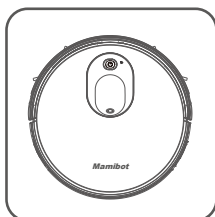

① Take out two screws on the battery cover with a screw driver.
② Take out the battery cover.
③ Take out the battery and unplug the electric wires to remove the battery.

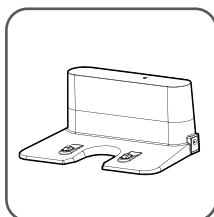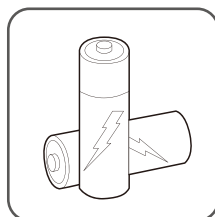In addition, you can get our instructions or help by emailing to sales@mamibot.com.
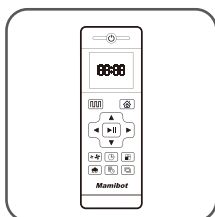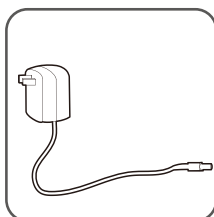
3.1 Names of Parts
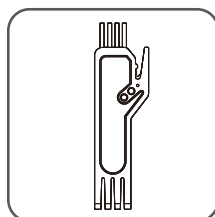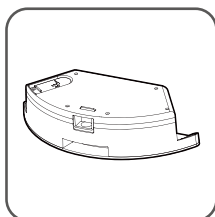
Main Body

Charging Base

2*AAA Batteries
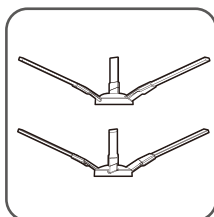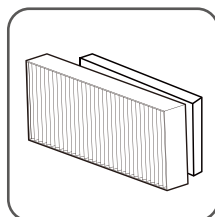（Excluded）

Remote control
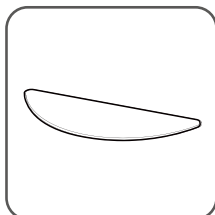
Power Adapter

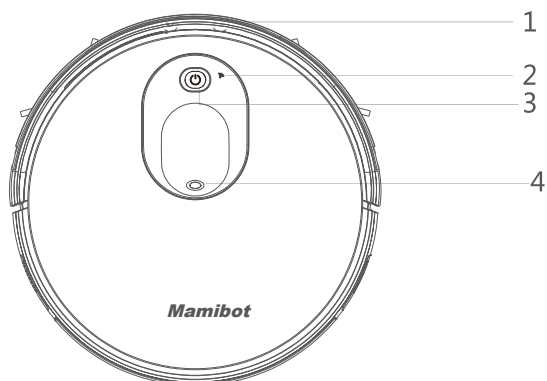Cleaning Tool

Water Tank

Side Brush

High-effective Filter

Mopping Cloth

While the accessories provided for some models are slightly different, they are subject to the actual product.
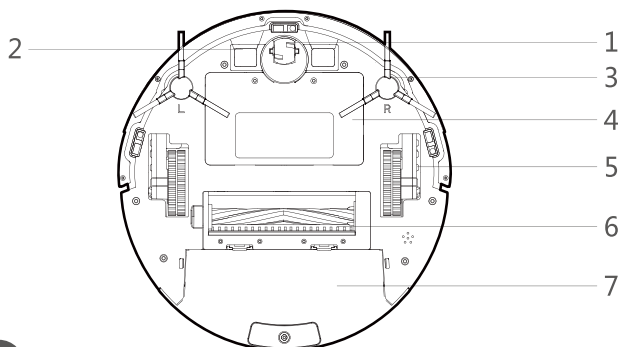
Product Components

Main Body

1.Bumper   2.Wi-Fi Indicator   3.Control Button   4.Camera

Main Body
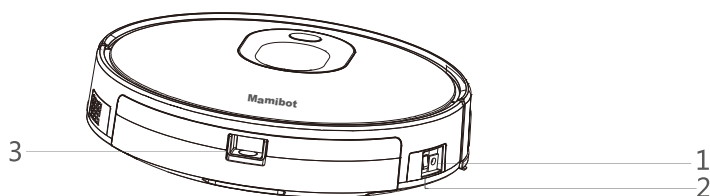
1.Universal wheel   2.Charging pole   3.Side brush   4.Battery cover

5.Side wheel   6.Rolling brush components   7.Dust box
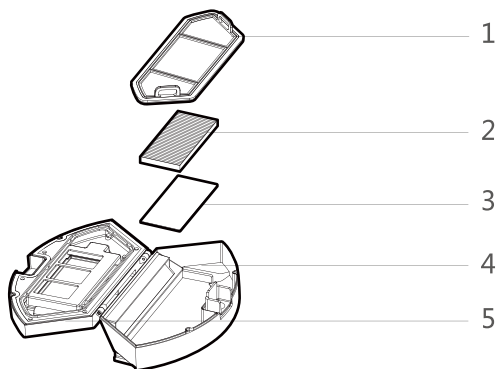
Main Body

1.DC power jack   2.Power switch   3.Dust box release button
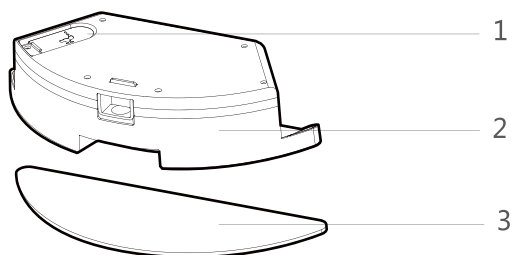

Dust Box

1.Pre-filter   2.High-effictive filter   3.Filter sponge

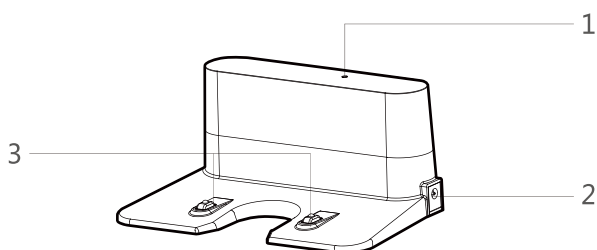4.Dust box   5.Dust box cover

1

2

3

Water Tank Component

1.Tank sealing cap   2.Water tank   3.Mop

1

3

2

Charging base

1.Charging indicator   2.DC power jack   3.Charging terminal

3.2 Product Specifications

Structure Type

Diameter of the main body	330 m m
Thickness of the main body	81 mm
Net weight of the main body	3.0 kg

Electronic Type

Voltage	14.8 V
Battery capacity	2600mAh
Main body button type	LED button

Accessory Type

Dust box capacity	600ml
Water tank capacity	370 m l

Process Parameters

|	
Charging Type	Manual/Automatic
Operating duration	<= 130min
Charging duration	180 – 240 min

The ambient temperature range for storage of the product is 0-40 degrees Celsius

3.3 Product Features

Multiple smart cleaning modes

4 cleaning modes are designed to suit different needs,which can be switched by the remote control and App,greatly improves the cleaning efficiency and saves 30% of the power.
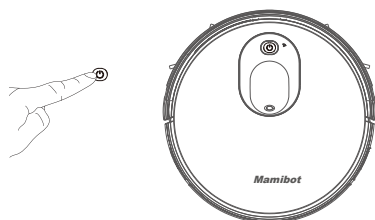
Humanized design

It is simple to operate,press the Control Button to start cleaning.
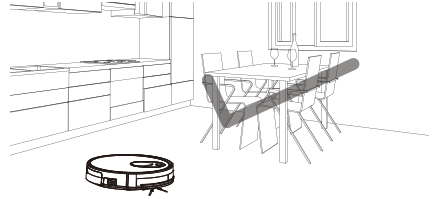Follow the Voice Prompt and let the robot start working for you.
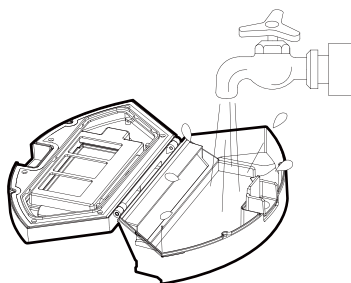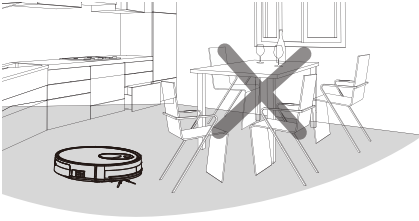
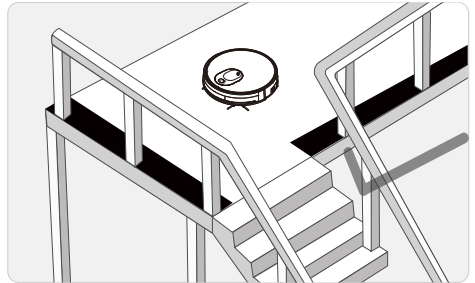## Dust box can be washed with water

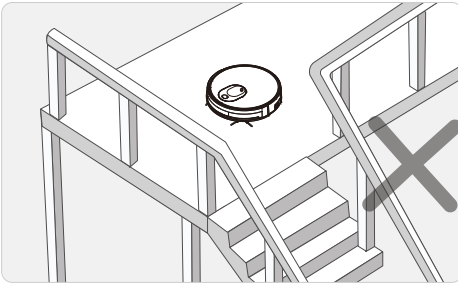The dust box and the pre-filter can be directly flushed with water without too much labor, which can avoid secondary pollution caused by dust flying!.
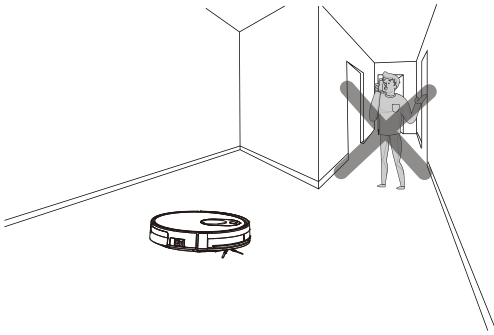
4.1 Attention

Please make sure all furnitures are properly organized so that the robot is able to clean well without being stuck.

Please make sure fences are settled so that the robot can work smoothly and safty at the stairway or similar areas.

Do NOT stand around at the narrow places, such as thresholds and aisles to reduce uncovered rate.

Please make sure that the object with the thickness less than 1.8 cm is not placed in the cleaning area to prevent the machine from climbing and jamming.
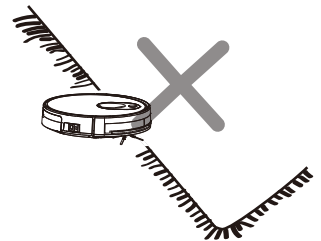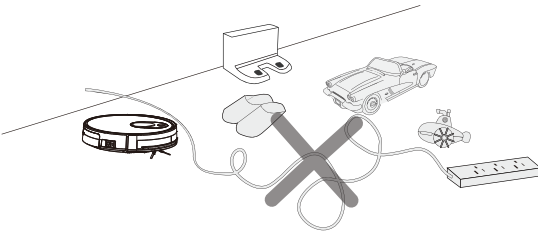
Please remove unnecessary objects on the floor,such as wires or cables,toy,shoes, to avoid trapping the robot.

Do NOT use the mopping function on the carpet. Please roll up the carpet in advance before cleaning.

Instructions for Use

4.2 Remote control instructions

Power On/Off

Display Screen

Smart Cleaning

Auto Charging
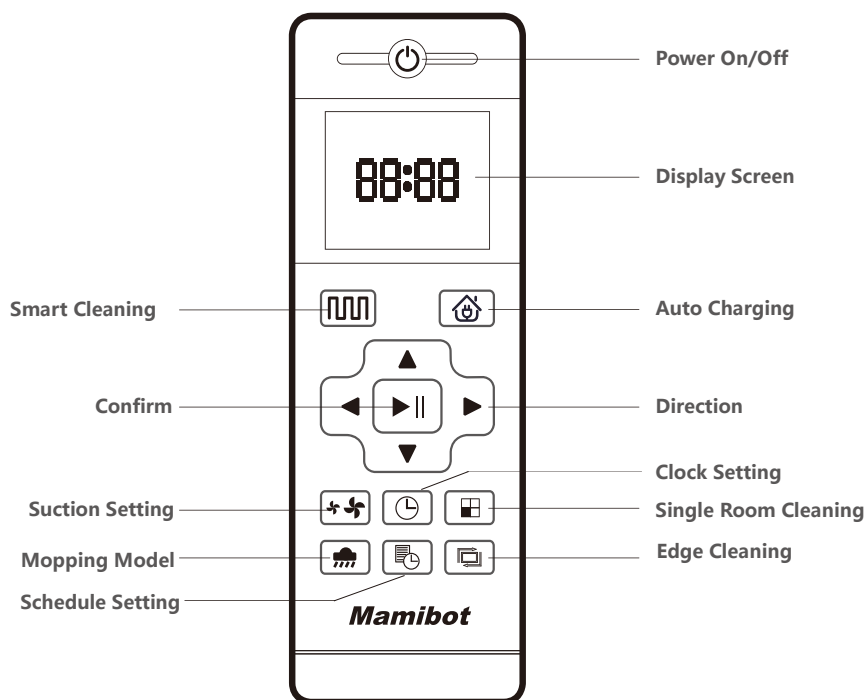
Confirm

Direction

Clock Setting

Suction Setting

Single Room Cleaning

Mopping Model

Edge Cleaning

Schedule Setting

Mamibot

While the interface of the remote controller provided for some models are slightly different,they are subject to the actual version.

When the robot is in the vicinity of the charging base and the virtual protection wall, it may not be able to distinguish the instructions issued by the remote controller. If you do not use the remote controller for a long time, please remove the battery.

ⅢⅢⅢ Smart Cleaning button
In any cleaning mode, press this button to enter the Smart Cleaning mode.

◈ Auto Charging
Press this button to enter the Auto Charging mode,and the screen displays on remote control.

▲ Forward /+
In the standby model, press this button to continue moving forwards, and release it to return
to the standy mode.
In the clock setting model and schedule setting model, press this button to increase the number.

▼ Back Button /-
In the standy model, press this button to rotate 180 degrees.
In the clock setting model and schedule setting model, press this button to decrease the number.

◀ Left Arrow
In the standby mode, press this button to continue turning left and release it to return to standby
mode. At the clock and schedule setting model, press this button to switch from minute to hour.

▶ Right Arrow
At the standby mode,press this button to continue turning right and release it to return to standby
mode.At the clock and schedule setting model, press this button to switch from hour to minute.

▶ⅠⅠ Confirm button
During operation,press this button to stop the robot,and it is still working at the pause.In the
clock and schedule setting model,this button can save all settings.

✦✦ Suction Settings button
In any cleaning mode,press this button to adjust the suction power. There are Normal suction and
Turbo Suction for your option.

🕓 Clock Setting button
Press this button to enter the Clock Setting mode and press the Confirm button to exit.

🔖 Schedule Setting button
In the standby mode,press this button to enter the Schedule Setting mode,and the display flashes
icon 🔖. At the Schedule Setting mode,press this button to save the data and exit the Schedule
Settingmode,and the display will always display the icon 🔖. At the Schedule setting mode,press
this button for 3S to cancel the Schedule Setting function,and the displayed icon 🔖 wil disappear.

▣ Edge Cleaning button
Press this button to enter the Edge Cleaning mode.

🔖 88:88   🕓 88:88
Display preset time   **Display clock time**

▦ Single Room Cleaning button
Press this button to enter the Single Room Cleaning Mode.

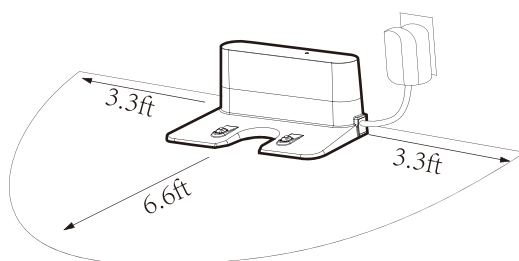🌧 Mopping Mode Button
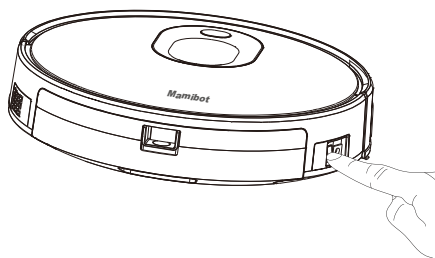Press this button to enter the Mopping Model(with the water tank).

## 4.3 Operating Instructions

Placement of the Charging Base

Place the charging base against the wall. Do not place any objects within 3.3 ft(about 1m) to the left / right and 6.6 ft(about 2m) to the front, and do not place any mirrors or other reflective objects within this distance.

Switch on the robot, which makes the Control button white, and enter the Selected mode. If the robot is not activated within 10 minutes,the robot will enter Sleep mode.
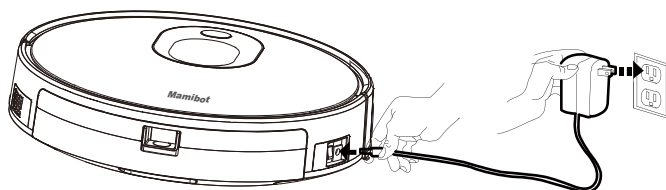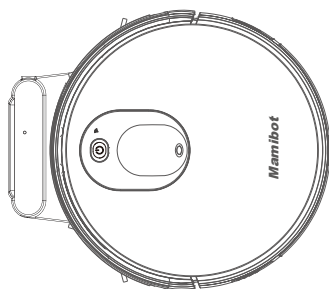
Charging modes

Please keep the power switch turned on before charging the machine.

Charge mode A:
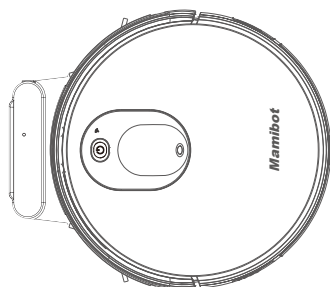Fix the charging pin into the DC power jack of the robot and plug in the power supply.

Please keep the power switch turned on before charging the machine.

Charge mode B:

In any model, press Auto charging button on the remote control or press Recharge icon on App to auto dock the Robot with the charging base.

Automatic charging

When Cleaning is completed or the battery is too low,the robot will automatically start finding the charging base to charge itself.

Please keep the charging base energized,otherwise the machine will not be able to find the charging base.

Charging Instructions

01. The battery should be repaired and replaced by the after-sales service center.
02. For the very first operation,please let the robot run out of power.
03. When the robot is charged,the Control button will flash a white lamp in a circular manner.
04. If the robot is out of service for a long time, please turn off the power switch.
05. Please charge the robot as soon as possible after the battery is used up.
06. The product can only use the power adapter and charger provided by the factory.
07. Please charge the robot for 12 hours for the first time of operation. When the charge is done, the Control button light turns off.
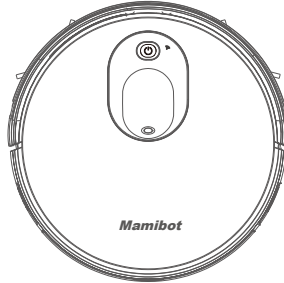
Switching Modes

Startup
01.Make sure the power switch on the side of the robot is turned on.
02.Press the Control button or the Cleaning mode on the remote control to start the robot.

Pause
The pause function is to switch the robot from the operating mode to the selected mode,and the robot can be paused by the following operations:
01.Press the Control button on the robot to pause the robot.
02.Press the power on/off button or Confirm button on the remote control to pause the robot.
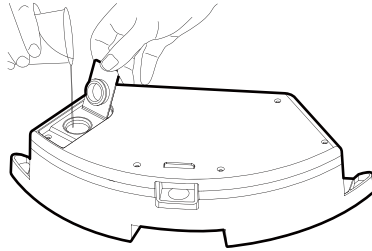Notice:After the machine is paused, the machine can be re-operated if press the Confirm button.

Sleep
Sleep mode means that the robot is stopped and the indicator light is off.If the Robot is not active within 10 minutes, the robot will enter Sleep mode auto-matically.
Note: If the robot is out of service for a long time, please turn off the power switch.
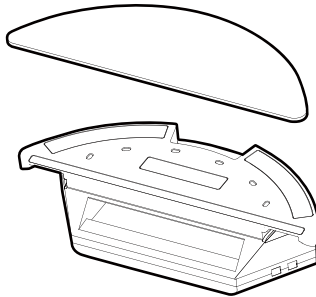
Use of Water Tank

Please remove the water tank to avoid danger when charging.
Please make sure the water is clear without impurity so the water can be leaked smoothly.

How to add water?
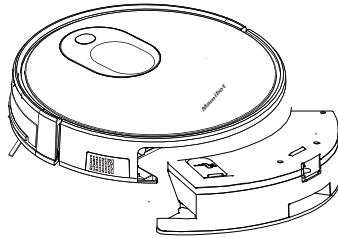Open the tank sealing cap, fill it with enough water and slowly inject water into the water tank.

Please remove the water tank to avoid danger when charging.

How to fix the microfiber mop?
Seal the tank sealing cap,then fix the microfiber mop to the velcro on the bottom of the water tank.
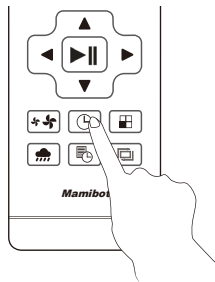
Please remove the water tank to avoid danger when charging.
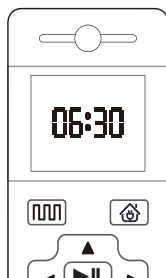
How to install the water tank?
Press the release button on the dust box to remove it then install the water tank.

Schedule Setting Cleaning

You can set the current local time on your robot by pressing the Clock Setting button on the remote controller,then press Confirm button.
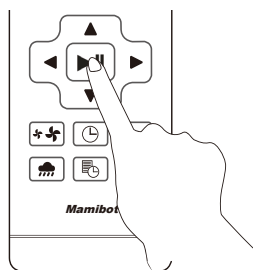
Once the power switch is turned off, all Schedule will be cancelled.
Once the schedule setting is succeeded,the robot will start working at the scheduled time everyday.

Press the"Schedule Setting" button to set the scheduled cleaning time for the robot.(e.g. Setting 6:30am to the robot, the robot will start cleaning at 6:30am every day at the standby mode.)
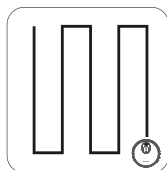

At the Schedule Setting mode,follow the voice prompts to confirm all your operations.

1.Press the Schedule Setting button to enter the Schedule Setting mode and set the schedule on the remote controller or APP.
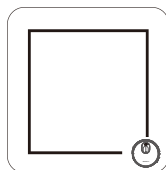2.If you need to cancel the schedule,just press the Schedule Setting button for 3 seconds.
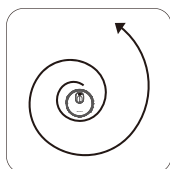
Cleaning Modes

Smart Cleaning
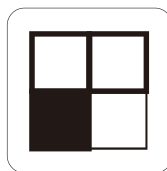The robot will perform the smart plan cleaning in Zigzag according to the room environment.

Edge Cleaning
The robot will clean along the longest edge of the room.

Spot Cleaning
The robot will perform the concentrated cleaning on a special dirty area.
(APP controlled only)

Single Room Cleaning
The robot will work as Smart Cleaning mode.
The default suction is Turbo.

Positioning
There will be voice prompt from the robot when press the button,it can help you to find the robot easily.
1. The switch should be turned on.
2. It can only be available on APP.
3. The wifi and the power must be working properly.
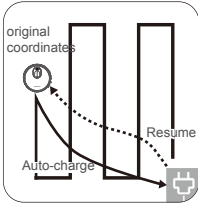
Mopping Mode
The Robot will perform Zigzag Mopping model according to the room environment.
Please close the door if in a single room, the robot will go back to the starting point and cover all
to be cleaned areas.

It is normal that the robot will perform with a short pause during working as the robot is in thinking

To perfefct the products, we keep the right to upgrade the interface of APP and remote controller.
The final interface is subject to the actual products, thank you.

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Auto-charge and Resume

The robot will automatically dock the charging base to charge itself once the battery is too low.Navigation with Visual Localization helps the robot remember its location and the planned route after full charging. It resumes cleaning with the original coordinates generated by the Visual navigation system.

Relocalization
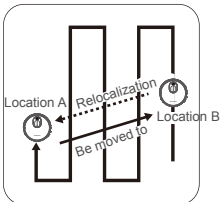
After the robot cleaned for a few rounds in an area(at least one round), the vision module established the current 3D image of the area. At this time, pause the robot at the Location A then move it to the Location B, and press the Control button to restart the robot.

Relocalization will be launched now,the VSLAM algorithm works out the exact Location A based on the existed map. The user can also see the changes of the location after being moved on the APP.

The robot voice prompts"localizing",and the robot starts to visual navigate.If it succeeds,the robot voice prompts"Localizing is succeeded,resume plan cleaning", the robot will navigate to the Location A and resume cleaning. If it fails, the robot voice prompts "Move into a new area, restart plan cleaning", all previous works will be cleared and restart.
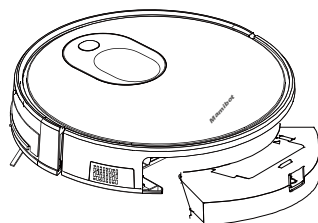
Product Maintenance

5.1 Side Brush Cleaning and Replacement
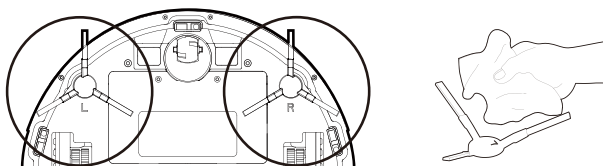
Check the side brush's condition frequently to see if it has been damaged or entangled with other objects. Clean the side brush with a cleaning tool or cloth. When the side brush is damaged and can not be used,please replace it as soon as possible. L and R correspond to each other.
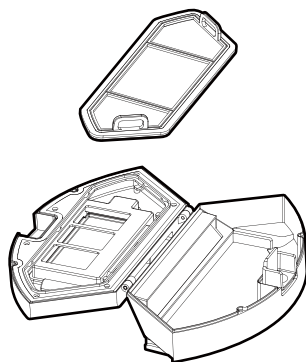
5.2 Cleaning of Dust Box and Filter

Press the release button to take out the dust box.
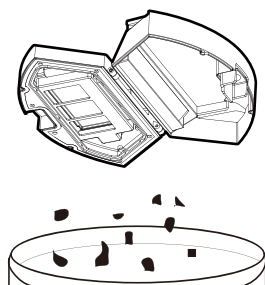
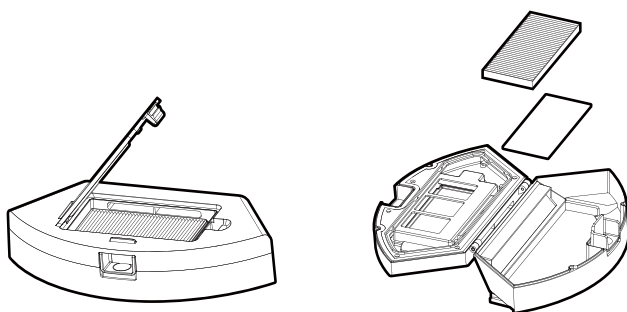Dump all debris from the dust box into the garbage.

Remove the pre-filter.
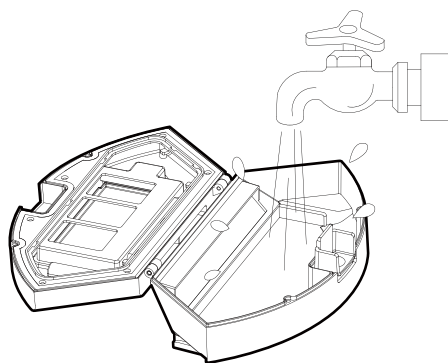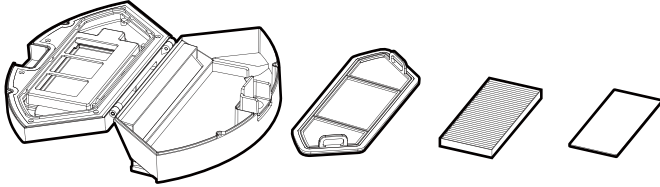
Open the high-effictive filter cover, and remove the high-effictive filter and filter sponge. It is not recommended to wash the high-effictive filter with water. Please pat off the debris carefully.
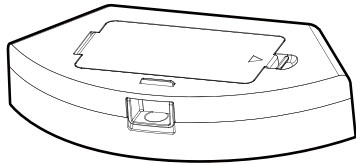

Wash the dust box and pre-filter.

1. Dry the dust box and filter components. Keep them dry to ensure a longer service.
2.After the pre-filter is used for 15~30 days, it should be washed once.
3. The maximum service life of the high-effictive filter is 3 months.

1. Reinstall the pre-filter and high-effictive filter in the dust box.
2. Before installing the filter, make sure that the high-effictive filter and the pre-filter are dry.
3. Do not expose the high-efficitive filter and the pre-filter to sunlight.
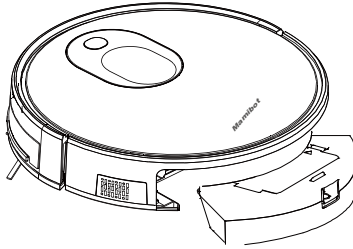
Cover the dust box and attach it into the main body.

5.3 Maintenance of Water Tank Components
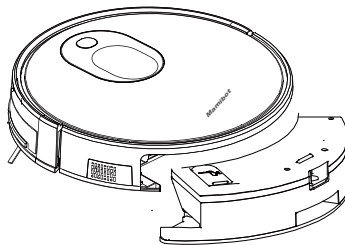
Press the release button to take out the water tank.
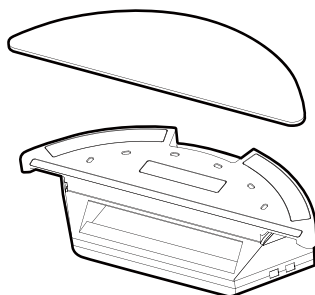
Remove the mopping cloth.

Wash and dry the mopping cloth.
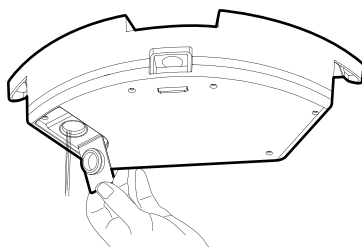
Pour out the rest of water from the water tank.
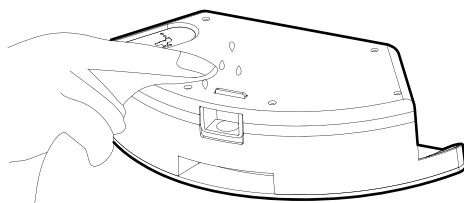
Clean the tank and dry it.

5.4 Maintenance of Rolling Brush Components
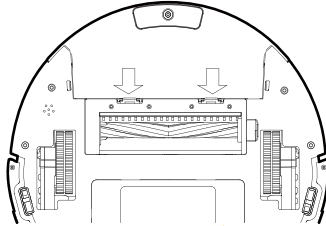
Open the rolling brush components.
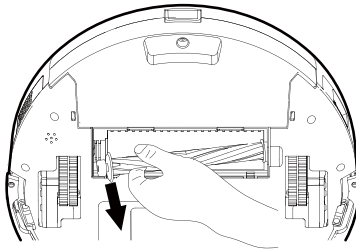
Remove the rolling brush and clean off all debris and hair.

5.5 Maintenance of Other Components

Charging Pole

Sensor

Use the cleaning tools or a dry soft cloth to periodically clean the charging pole of robot chassis and the sensor window.
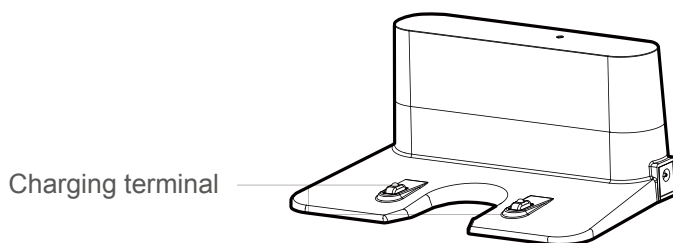
Charging terminal

Use a cleaning tool or soft cloth to clean the charging terminal.

Common Faults

6.1 Faults Description

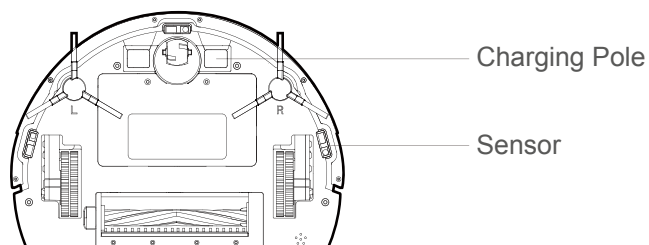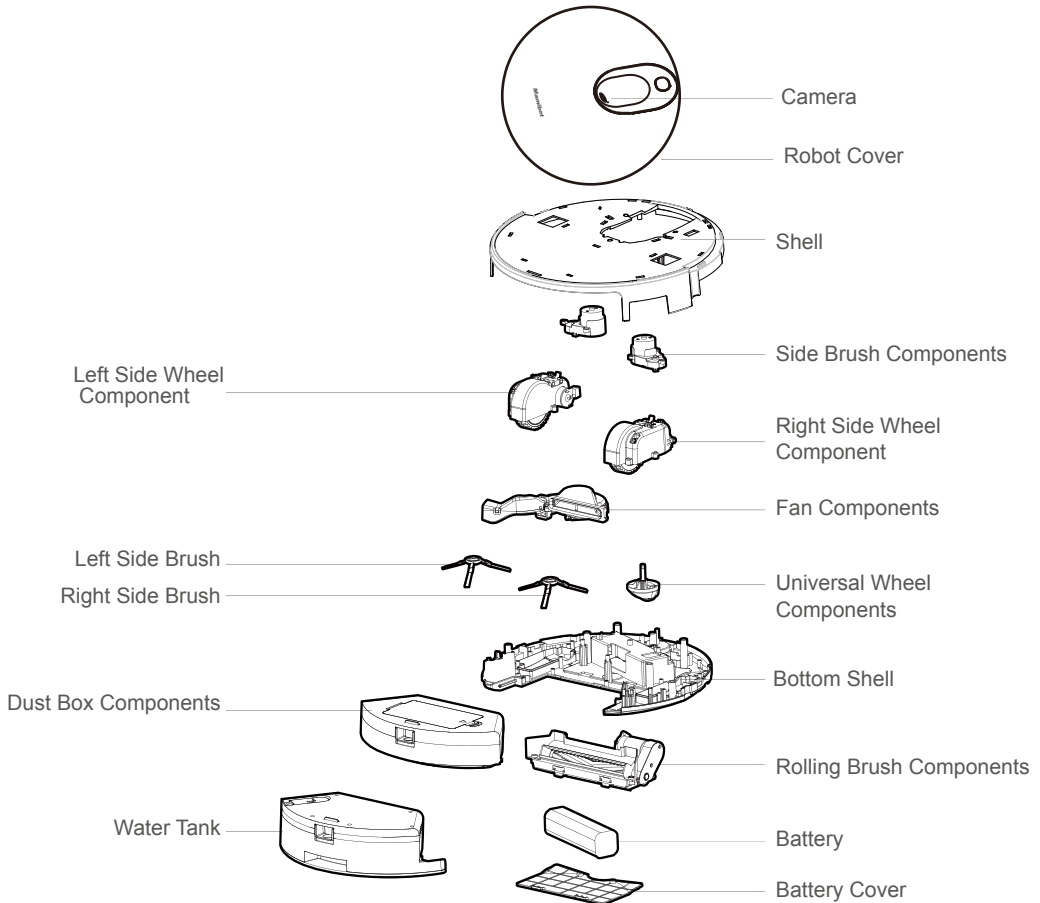| Faults	Likely Cause	What to do
EXVAC680S can not be charged.	The electrodes between the main body and the charging base are not contacted properly.	Make sure that the electrodes contacted well.
	The charging base didn't plug with the power.	Check the adapter, always keep the charging base in power.
EXVAC680S is stuck during work.	EXVAC680S may be stuck by wires/cables on the ground,hanging curtains or obstacles around the carpets.	EXVAC680S will try to get itself out .Please start EXVAC680S in a new location if it failed.
EXVAC680S goes back to recharge without finishing the cleaning work.	EXVAC680S' battery is lower.	Check the battery power and charge it.
	EXVAC680 works at different floors with various speeds	Reboot EXVAC680S, and start the working again.
EXVAC680S does not work as scheduled	The robot is not switched on.	Switch on the robot.
	The power level of EXVAC680S is too low to work	Check the battery power and charge it.
	EXVAC680S is stuck or twined by obstacles.	Ensure the side brushes,side wheels,main brushes and dust box work well. Restart the EXVAC680S in a new location.
Remote control malfunctions (Range is 5 m)	The remote control is short of power.	Change new battries for the remote control
	EXVAC680S is short of power.	Check the battery power and charge it.
	The infrared ray is blocked.	Wipe the infrared emitter on the remote control or the infrared receiver on the robot with clean cotton cloth.
	Interference emitted by other devices.	Avoid using the remote control near other infrared devices.
EXVAC680S works with irregularities map.	The wheels and the floors may slip due to climbing small steps, thresholds and doors.	It is recommended to close the door in the area and clean the area separately. The robot has the function of self-identification single room. It will return to the starting poin after cleaning.
	EXVAC680S Work on a waxed, polished floor or smooth floortile.	It is recommended to do the cleaning work after the floor has dried.
	The cables, wires, slippers on the ground affect the working of EXVAC680S.	Please remove the unnecessary objects on the floor before cleaning.

Note: If the above methods can not solve the problem,please reboot the robot.
If the problem can not be solved by reboot, please contact sales@mamibot.com.

6.2 Replaceable Modules

Camera

Robot Cover

Shell

Side Brush Components

Left Side Wheel Component

Right Side Wheel Component

Fan Components

Left Side Brush

Right Side Brush

Universal Wheel Components

Bottom Shell

Dust Box Components

Rolling Brush Components

Water Tank

Battery

Battery Cover

Application:

The product is suitable for cleaning house, hotel rooms, and small offices and provides good cleaning for various carpets(with carpet wool length less than 1.5cm),wooden floor,hard floor,tile floor,etc.

CE ⊘ RoHS 🗑

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