

POWERbot

User manual

SR10M70****, SR20M70**** Series

- Before operating this unit, please read the instructions carefully.
- For indoor use only.



SAMSUNG

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Safety information

SAFETY INFORMATION



- Before operating the appliance, please read this manual thoroughly and retain it for your reference.



- Because these following operating instructions cover various models, the characteristics of your vacuum cleaner may differ slightly from those described in this manual.

CAUTION/WARNING SYMBOLS USED



Indicates that a danger of death or serious injury exists.



Indicates that a risk of personal injury or material damage exists.

OTHER SYMBOLS USED



Indicates that the following text contains additional important information.

Safety information

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should be observed, including the following:

READ ALL INSTRUCTIONS BEFORE USING YOUR POWERbot.

Unplug the battery charger / docking station from outlet when not in use and before conducting maintenance.

WARNING: to reduce the risk of fire, electric shock, or injury:

GENERAL

- Use only as described in this manual.
- Do not operate POWERbot or the battery charger / docking station if it has been damaged in any way.
- If the vacuum cleaner is not working as it should, has been dropped, damaged, left outdoors, or dropped in water, return it to a customer care center.
- Do not handle the battery charger / docking station or POWERbot with wet hands.
- Use only on dry, indoor surfaces.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Cleaning and user maintenance shall not be made by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

Battery charger / Docking station

- Do not modify the polarized plug to fit a non-polarized outlet or extension cord.
- Do not use outdoors or on wet surfaces.
- Unplug the battery charger / docking station from the outlet when not in use and before servicing.
- Use only the battery charger / docking station supplied by the manufacturer to recharge.
- Do not use with a damaged cord or plug or a loose power outlet.
- Do not pull or carry by the cord, use the cord as a handle, close the door on the cord, or pull the cord around sharp edges or corners. Keep the cord away from heated surfaces.

- Do not use extension cords or outlets with inadequate current carrying capacity.
- Do not unplug by pulling on the cord. To unplug, grasp the plug, not the cord.
- Do not mutilate or incinerate batteries as they will explode at high temperatures.
- Do not attempt to open the battery charger / docking station. Repairs should only be carried out by a qualified customer care center.
- Do not expose the battery charger / docking station to high temperatures or allow moisture or humidity of any kind to come into contact with the battery charger / docking station.
- Do not charge the non-rechargeable batteries with charger.

POWERbot

- Do not pick up hard or sharp objects such as glass, nails, screws, coins, and etc.
- Do not use without a filter in place. When servicing the unit, never put fingers or other objects into the fan chamber in case the unit accidentally turns on.
- Do not put any objects into openings. Do not use with any openings blocked; keep openings free of dust, lint, hair, and anything that may reduce air flow.
- Do not pick up toxic materials (chlorine bleach, ammonia, drain cleaner, etc.).
- Do not pick up anything that is burning or smoke, such as cigarettes, matches, or hot ashes.
- Do not use to pick up flammable or combustible liquids such as gasoline, nor use on areas where they may be present.
- Locations with candles or desk lamps on the floor.
- Locations with unattended fires (fire or embers).
- Locations with distilled alcohol, thinner, ashtrays with burning cigarettes, etc.
- Do not use POWERbot in an enclosed space filled with vapours given off by oil based paint, paint thinner, moth proofing substances, flammable dust, or other explosive or toxic vapours.
- Leaks from battery cells can occur under extreme usage or temperature conditions. If the liquid gets on skin, wash quickly with water. If the liquid gets into the eyes, flush them immediately with clean water for a minimum of 10 minutes. Seek medical attention.

Safety information

WARNING Power related

- ▶ Please prevent any risk of electric shock or fire.
 - Do not damage the power cord.
 - Do not pull the power cord too hard or touch the power plug with wet hands.
 - Do not use a power source other than 100-240 V~ and also do not use a multi outlet to supply power to number of devices at the same time. (Do not leave the cord carelessly on the floor.)
 - Do not use a damaged power plug, power cord or loose power outlet.
- ▶ Clean dust or any foreign matters on the pin and contact part of the power plug.
 - There is a risk of electric shock or malfunction.

WARNING Before use

- ▶ Do not use POWERbot near combustible materials.
 - Place near candle, desktop lamps, fireplace or near combustible materials such as gasoline, alcohol, thinners etc.
- ▶ The POWERbot is intended for household use therefore do not use it in an attic, basement, storage, industrial building, out of indoor space, places with moisture (such as bathroom, laundry), on the table or shelves.
 - The POWERbot can be damaged or malfunction.
- ▶ Be sure POWERbot does not pass through or touch any kind of liquids.
 - The POWERbot can be severely damaged and it may contaminate other areas if the wheels pass through liquid.
- ▶ Attach the boundary markers on a place where the POWERbot may fall such as a stair or banister to prevent product damage and injury.
 - Please keep the cliff sensor clean all the time for safety.

- ▶ Do not spill any liquids on the docking station.
 - There is a risk of fire or electric shock.
- ▶ Do not use the docking station for anything other than its intended purpose.
 - There is a risk of fire or severe damage to the docking station.
- ▶ Always keep the cliff sensor clean for your safety.

WARNING In use

- ▶ If any abnormal sounds, smells or smoke come from POWERbot, immediately shut off the emergency switch at the bottom of POWERbot and contact a service center.

WARNING Cleaning and maintenance

- ▶ When power cord is damaged, contact a service center to get it replaced by a certified repairman.
 - There is a risk of fire or electric shock.
- ▶ Please check with a Samsung Electronics service center when exchanging batteries.
 - Using batteries from other products can cause malfunction.

CAUTION Before use

- ▶ Insert the dustbin before using POWERbot.
- ▶ Be careful with the followings for proper automatic recharging.
 - Always turn on the power of the docking station.
 - Install the docking station where POWERbot can easily find.
 - Do not leave any object in front of the docking station.

- ▶ When installing the docking station, do not leave the cord carelessly on the floor since POWERbot may get tangled by it.
- ▶ Do not use POWERbot on black colored floors.
 - The POWERbot may not be able to operate normally.
- ▶ Do not place any objects within 0.5 m to both sides and 1 m to the front of the docking station.
- ▶ Make sure the docking station's charging contact is not damaged or have any foreign matters on it.
- ▶ Do not install the docking station in an area with a dark floor.
 - If the floor around the docking station is dark, recharging is hindered.
- ▶ Move any obstacles that may disturb POWERbot's movement (such as children's indoor swing or slides) before cleaning.
- ▶ Do not use the POWERbot in a place which is narrower than the turning radius (0.5 m or less) of the POWERbot.
- ▶ To clean all areas of your house, open all rooms and attach the boundary markers on the places where the POWERbot may get damaged such as a front door, veranda, bathroom, and stairs for safety.
- ▶ For the very low areas where the POWERbot may get stuck, attach the boundary markers to prevent the POWERbot from getting in.
- ▶ If a brush or brush cover is not assembled correctly, scratches may occur on the floor, or product malfunction may occur.
- ▶ Before operating the POWERbot, remove the objects which could break such as a frame, mirror, and porcelain items so that the POWERbot works without interruption.



CAUTION

In use

- ▶ Using POWERbot on thick carpet may damage both POWERbot and the carpet.
 - The POWERbot cannot pass over carpet that is thicker than 1 cm.
- ▶ Do not use POWERbot on tables or other high surfaces.
 - There is a risk of damage if it falls.
- ▶ The POWERbot may bump into chair, desk legs therefore move them away for faster and efficient cleaning.
- ▶ When POWERbot is operating, do not lift it up or carry it to another area.
- ▶ Do not hold by driving wheels of POWERbot when carrying it to another area.
- ▶ Do not put any objects on top of POWERbot and camera since it may cause malfunction.
- ▶ Remove any large papers or plastic bags immediately when using POWERbot since they may block the intake.
- ▶ Do not aim the red pointer directly at people or animals.
- ▶ Do not lie down around the POWERBOT that is running.
 - Your hair may be caught in the brush, resulting in physical injury.



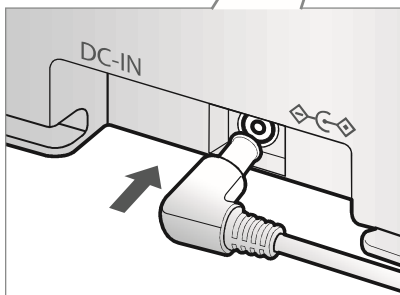
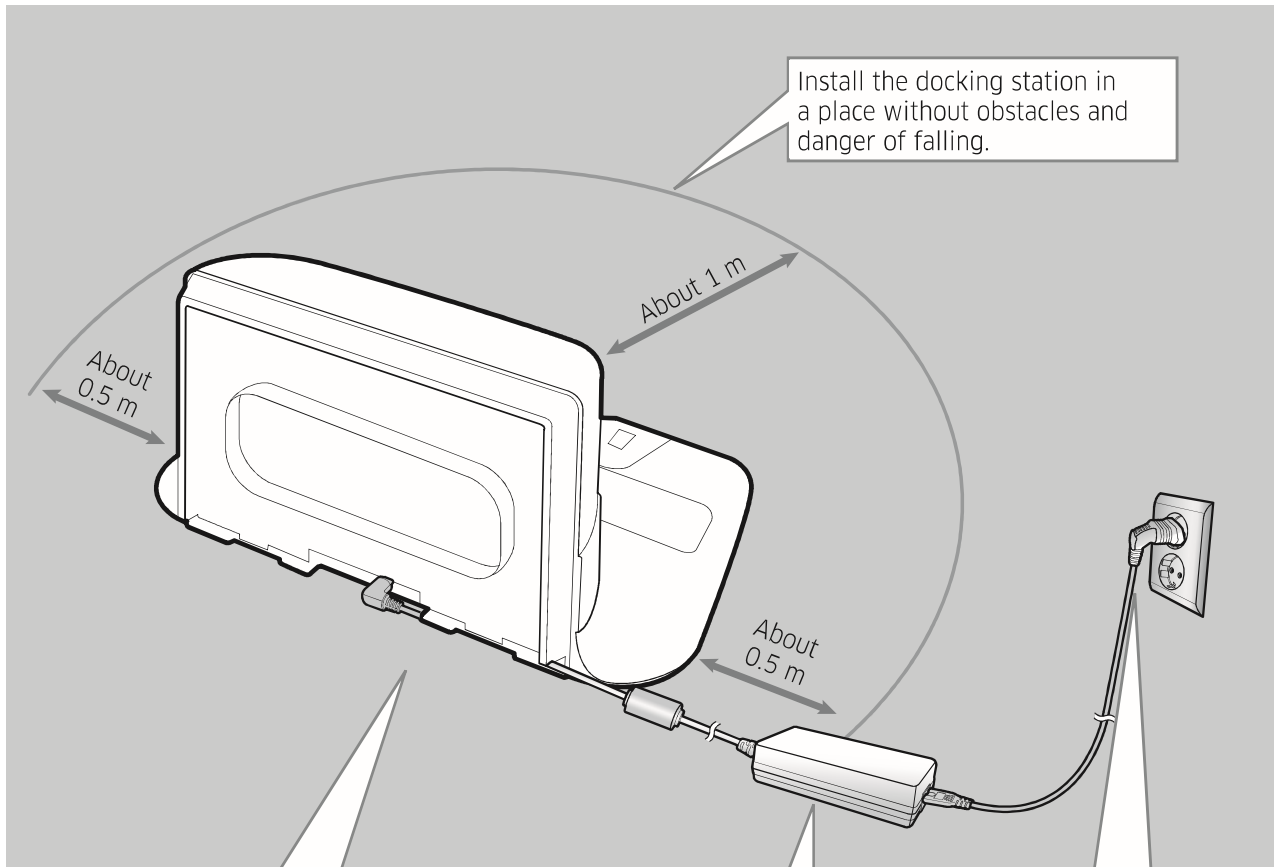
CAUTION

Cleaning and maintenance

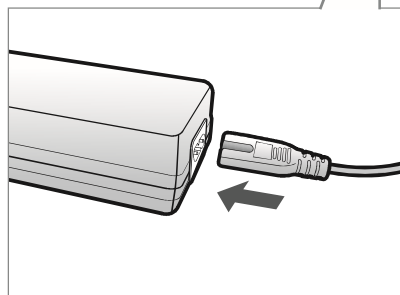
- ▶ Prevent any damage to POWERbot by complying with the following
 - Do not clean POWERbot by spraying water directly onto it or use benzene, thinner, acetone or alcohol to clean it.
- ▶ Do not disassemble or repair POWERbot. This should only be done by a certified repairman.
- ▶ Always keep the obstacle sensor, cliff sensor and camera clean.
 - If foreign matter accumulates, sensors may malfunction.

Installation

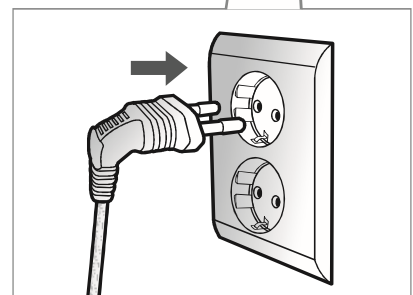
The docking station must be plugged in and turned on at all times.



1 Connect the battery charger jack to the docking station




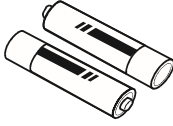
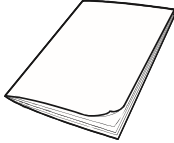
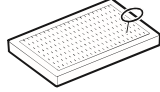
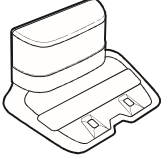

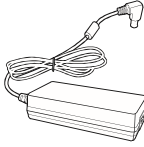
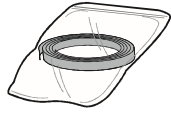
2 Connect the power cord to the battery charger



3 Connect the power plug to the outlet

When using the battery charger, the side with the sticker attached must face down.

Accessories

 <p>or</p> <p>Remote control (Optional)</p>	 <p>Batteries (AAA type) (Optional)</p>	 <p>User manual</p>	 <p>Spare filter (Optional)</p>
 <p>Docking station</p>	 <p>Power cord</p>	 <p>Battery charger</p>	 <p>Boundary markers (Optional)</p>

* Accessories may differ depending on the models.

* Refer to page 15 for the installation of boundary markers.

* Battery Spec

SR10M70**** series : Lithium-ion, 21.6V, 1800mAh, 6cell

SR20M70**** series : Lithium-ion, 21.6V, 3600mAh, 12cell

Installation note

Note

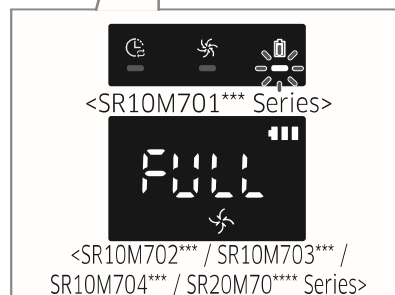
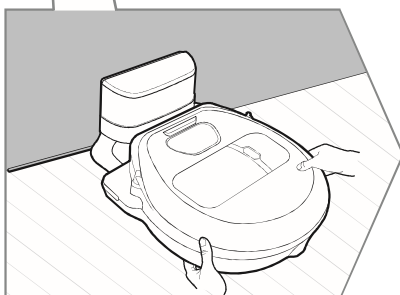
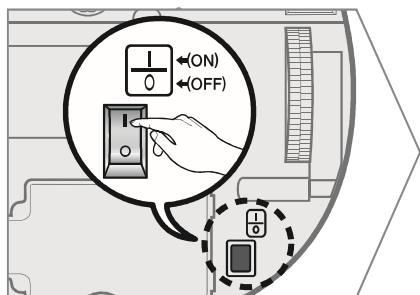
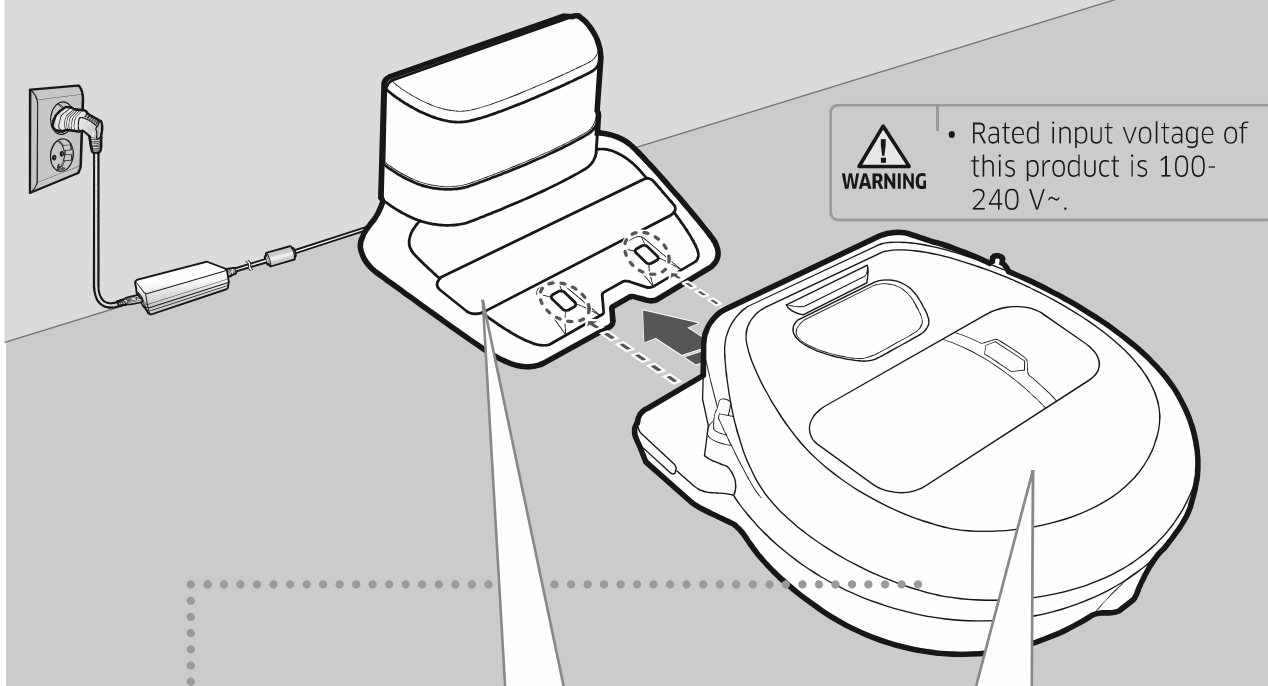
- ▶ Install the docking station in a place where the floor and wall are level.
- ▶ It is best to install the docking station along the grain of wooden floors.
- ▶ If the emergency switch is off, the POWERbot will not charge even if it is docked on the docking station.
- ▶ Always turn on the power of the docking station.
 - If power is not supplied to the docking station, the POWERbot cannot find it and cannot automatically recharge.
 - If the POWERbot is left detached from the docking station, the battery will drain naturally.
- ▶ If the POWERbot is in sleep mode, power will not come on even if the emergency switch is turned off and then on. Press and hold the [Start/Stop] button on the POWERbot to turn the sleep mode off.

Charging

After completely charging the POWERbot for the first time (after purchase), it can be used for 60 min. in Nomal (🌀) mode. (Refer to the page 39 for the charging time.)


Smart Charging

If POWERbot runs out of charge in Auto clean mode, it will automatically return to the docking station to be charged and will recommence the cleaning to complete the cleaning area after two-third of battery charging is done. (Max. 2 times).



1 Turn on the emergency switch on the bottom

You must turn on the emergency switch to turn on the POWERbot.

Press and release the  button.

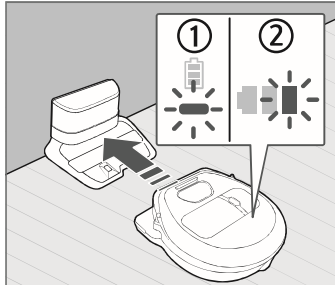
2 Manually charge the POWERbot by placing it on the docking station

Make sure the charging pins on the POWERbot and the docking station are aligned.

3 Check the charging status

For SR10M701*** Series,
The battery indicator blinks at 1 sec. intervals during charging and the indicator will remain in ON status when fully charged.
For SR10M702*** / SR10M703*** / SR10M704*** / SR20M70**** Series,
"🔋🔋🔋" will turn on according to charging progress and "FULL" will turn on when charging is complete.

Automatic charging



1. SR10M701*** Series

If the battery indicator blinks at 0.4 sec. intervals, the POWERbot will automatically return to the docking station to be charged.

2. SR10M70**** / SR2070**** Series

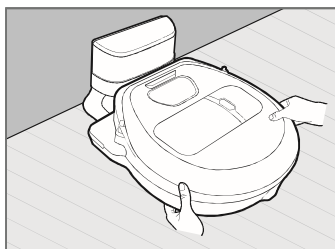
When the battery indicator blinks during cleaning, the POWERbot will return to the docking station to charge itself automatically.

Recharging



You can command the POWERbot to recharge at the docking station while it is in cleaning.

Low battery (Lo)



Manually charge the POWERbot by placing it on the docking station.

Steps to take if recharging not occurring:

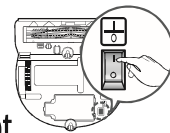
Check the installation status of the docking station when:

- ▶ the docking station is located in a place where the POWERbot cannot easily access it.
- ▶ the distance between the docking station and POWERbot is over 5 m.
 - It may take a long time for POWERbot to return to the docking station for recharging

Manually charge the POWERbot when:

- ▶ the docking station is located in a corner
- ▶ the battery is fully exhausted
- ▶ the POWERbot is immobilized by an obstacle (furniture etc.)
- ▶ the POWERbot can't climb a threshold near the docking station (The maximum height of a threshold the POWERbot can climb is about 1.5 cm.)
- ▶ when the battery indicator blinks and "Lo" is displayed
- ▶ when the battery indicator blinks (Applicable to SR10M701*** Series)
- ▶ when the POWERbot is set to the Spot clean or Manual clean mode

Using POWERbot



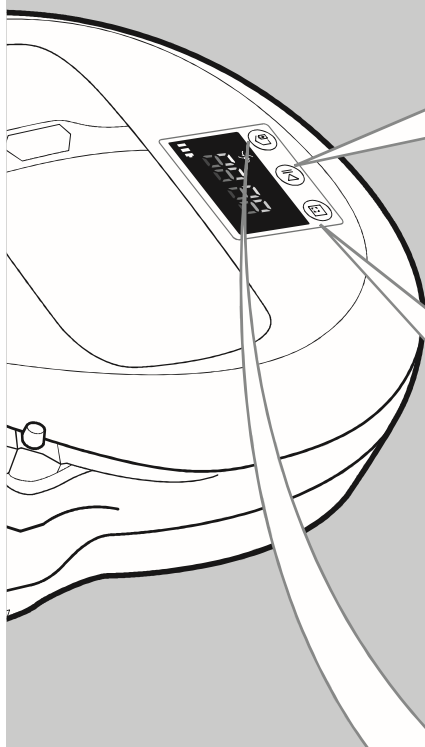
You must turn on the emergency switch on the bottom of the unit before using POWERbot.

Turning the power on/off

Press the  button for more than 3 seconds



- When POWERbot is not used for 30 min.;
SR10M70**U* / SR20M70**U* series: Turns to energy-saving mode.
SR10M70**W* / SR20M70**W* series: Automatically returns to the docking station to be charged.



Starting Auto clean mode

Press and release this button. The POWERbot moves and automatically cleans the set areas only once.



* Stop cleaning: Press and release the  button

Using Spot clean mode

The POWERbot cleans a localized area intensely.


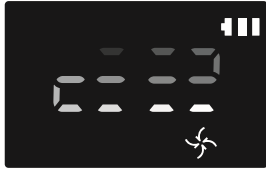
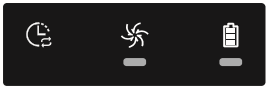

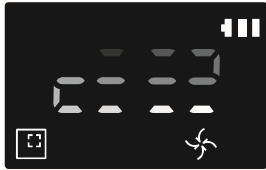




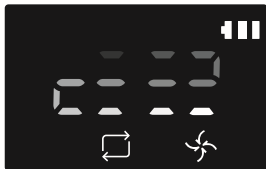
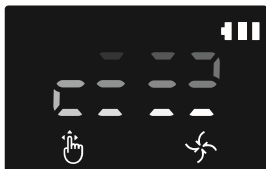


Recharging

You can command POWERbot to recharge at the docking station automatically while it is cleaning by pressing this button.



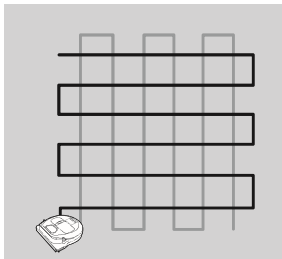
Selecting cleaning modes

Cleaning mode	How to select	Displayed icon	
		SR10M702*** SR10M703*** SR10M704*** SR20M70****	SR10M701***
Auto clean			
Spot clean			
Repeat clean	* Press the [A,B type  , [C,D type ] on the remote controller first and then press the [Start/Stop ].		-
Manual clean	* Manual clean mode can be selected by the direction control buttons of the remote control.		-

* If POWERbot fails to return to the docking station, it will turn to energy-saving mode and display panel will be turned off.

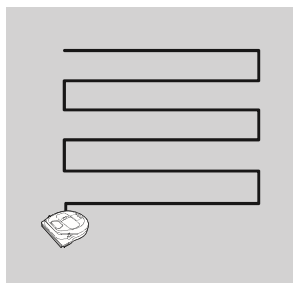
* To exit the energy-saving mode, press the [Start/Stop ] or [Power ] button of main body or remote controller.

* If cleaning in Auto clean mode is completed within 15 minutes, POWERbot cleans 1 more time.



Using POWERbot

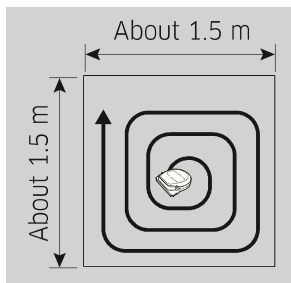
Cleaning method for each modes



Auto clean

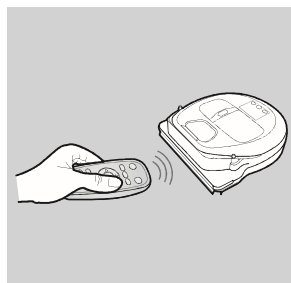
Automatically cleans the set areas only once.

*SR10M701*** series : Cleans repeatedly until the battery is depleted.



Spot clean

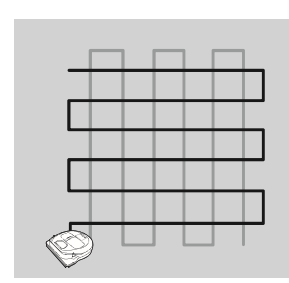
Cleans a localized area intensely. It can be used to clean bread or cookie crumbs.



Manual clean

You can move POWERbot with the remote control to clean the desired spot.

*This function is not applicable to SR10M701*** series.



Repeat clean

Cleans repeatedly until the battery is depleted.

*This function is not applicable to SR10M701*** series.

Note

- ▶ If Auto clean or Repeat clean is commenced, POWERbot cleans the area near the docking station first.

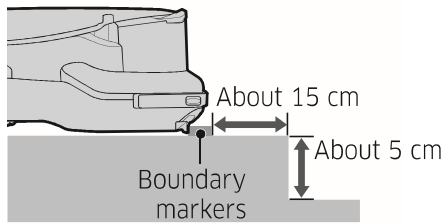
Using special cleaning functions

Cleaning function	Operation	Displayed icon	
		SR10M702*** SR10M703*** SR10M704*** SR20M70****	SR10M701***
Intelligent power control	* When the POWERbot detects a carpet in normal mode, it will automatically operate with stronger suction power.		
Edge Clean Master	* When the POWERbot detects an edge or corner in Auto clean or Spot clean, the auto shutter tool operates and approaches the edge or corner section to clean. ▶ Straight edge (One time cleaning) ▶ Corner (Two times cleaning)		

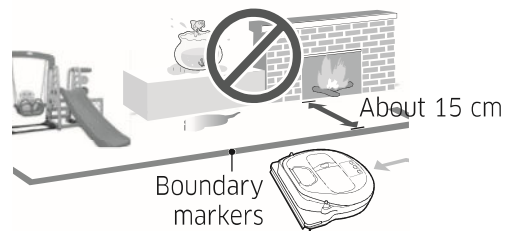
About the boundary markers



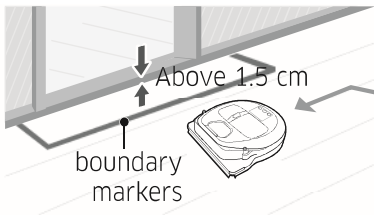
To prevent the POWERbot from entering the following areas, attach the boundary markers on the floor in the □ shape at an interval of about 15 cm.



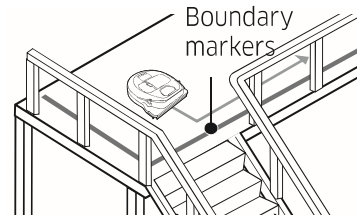
where a raised spot is below 5 cm



where there is a slide, swing, fireplace or any flammable substance or moisture.



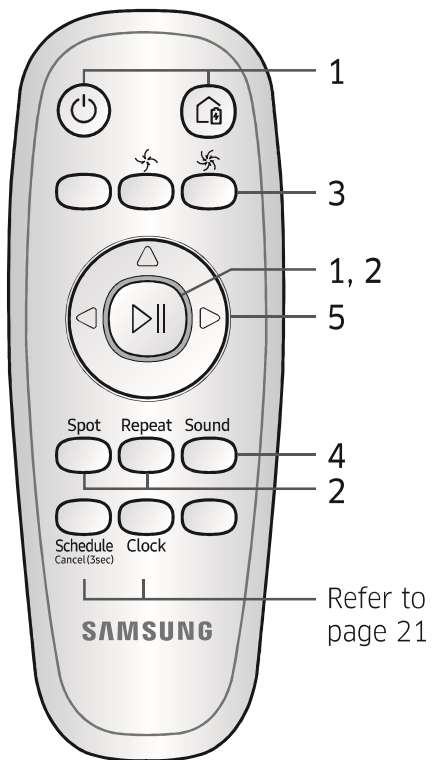
where a threshold is above 1.5 cm



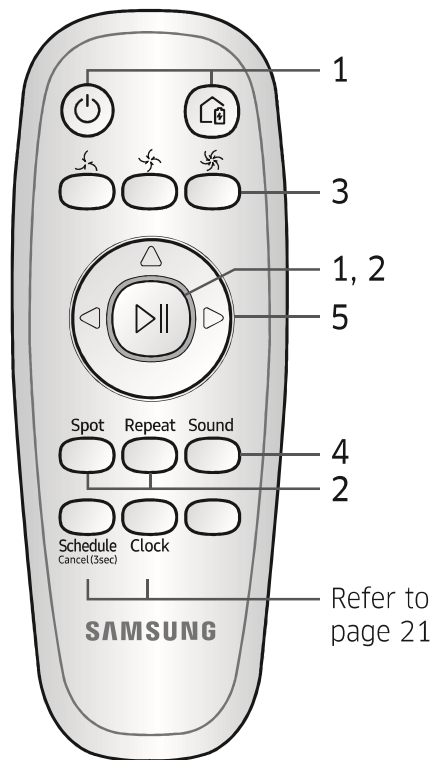
where there is risk of falling such as stairs, porches or guardrails.

Using the remote control

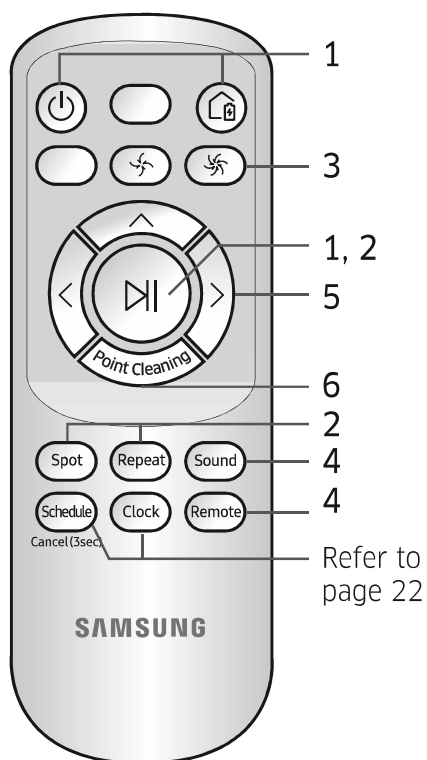
[A Type]



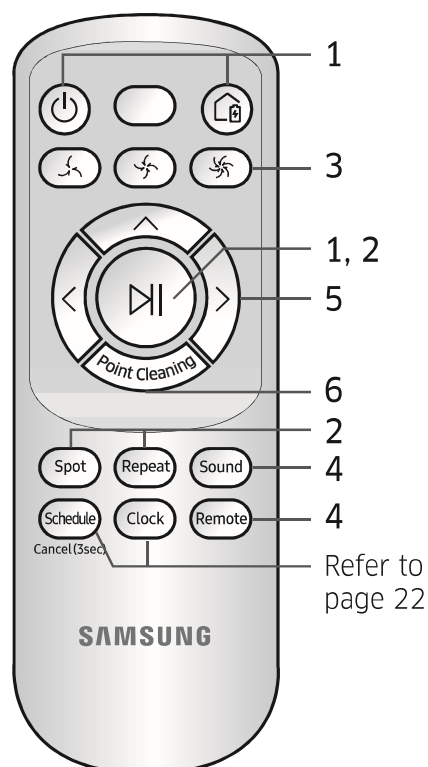
[B Type]



[C Type]



[D Type]



□ [A Type] / □ [B Type] / □ [C Type] / □ [D Type]

1 Power / Recharging / Start/Stop

Power					Turn POWERbot's power on/off
Recharging					Select to recharge POWERbot at the docking station automatically
Start/Stop					Select to start or stop cleaning process

2 Cleaning modes

Auto clean					Select to clean all set areas only once and then automatically return to the docking station.
Spot clean					Select to clean a localized area intensely
Repeat clean					Select to clean repeatedly until the battery becomes very low with indicator blinking

3 Suction power

Turbo mode					Select to clean with the strongest suction power
Normal mode					Select to clean with moderate suction power
Quiet mode					Select to clean with lower operation noise

4 Additional function

Sound					Each time you press this button, Sound Effects → Mute is selected in this sequence <SR10M703**9, SR10M704**9 series only> Star wars → Sound Effects → Mute
Remote control					Select to turn Wi-Fi function on or off

* SR10M701**5 series only: Star wars (Mute function is not available.)

* The previously selected setting will not change even if the emergency switch is turned off and then on.

Using the remote control

5 Manual clean mode & Direction control

Move forward					Select to move forward
Turn left					Select to turn left
Turn right					Select to turn right

* Moving backward is not available.

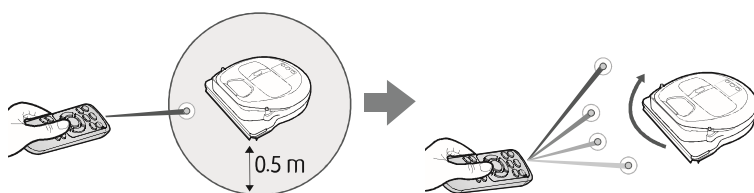
6 Point cleaning

Available only with C, D type remote controllers.

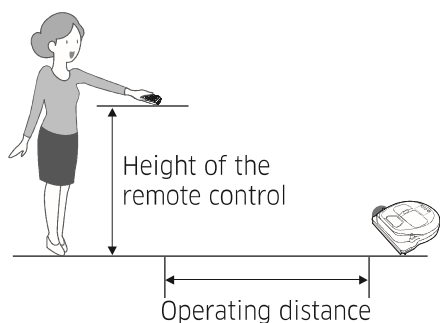
You can use the remote control to point and clean the desired spot while the POWERbot is in cleaning process.

Point the red light on the floor within 0.5 m around POWERbot's location.

Press and hold the Point cleaning button to move the red light to the desired spot. The POWERbot will follow the light while cleaning.



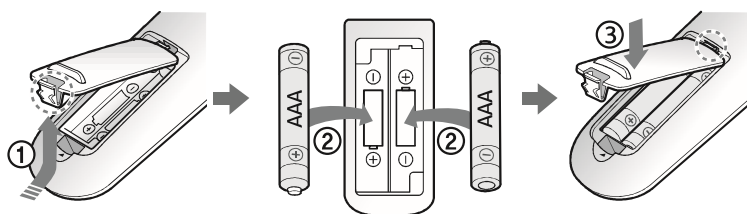
Operating distance of the remote control



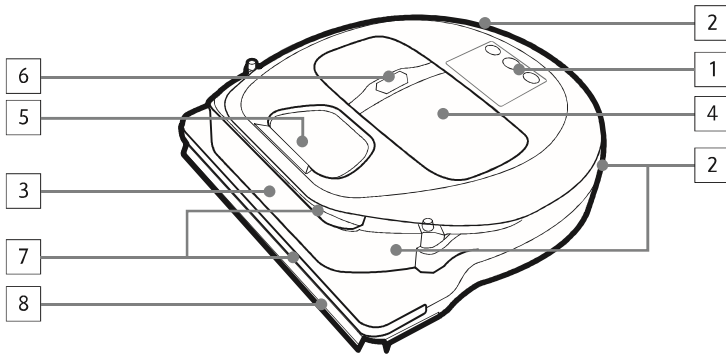
Height of the remote control	0.5 m	1 m	1.5 m
Operating distance	About 1.5 m	About 2 m	About 3 m

Inserting batteries

Open the battery cover by lifting it up while pressing the locking tab and insert the batteries as shown in the illustration. Then, close the cover until it clicks into place.

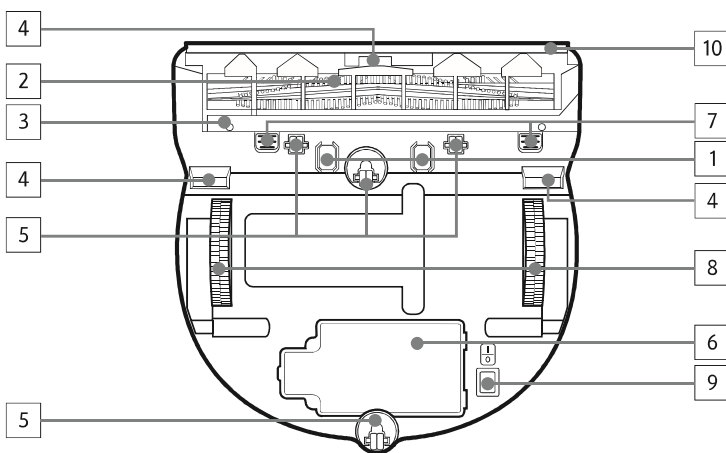


Name of each part



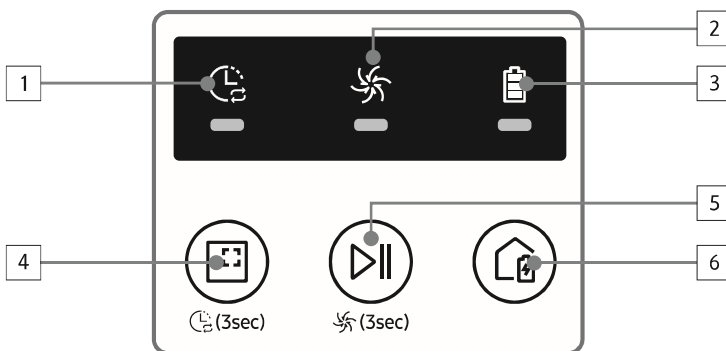
Top

1. Display panel
2. Remote control signal receiver
3. Obstacle sensor
4. Dustbin
5. Camera
6. Dustbin button
7. Bumper sensor
8. Auto shutter tool



Bottom

1. Charge pins
2. Brush
3. Brush cover
4. Cliff sensor
5. Roller
6. Battery cover
7. Brush cover button
8. Driving wheel
9. Emergency switch
10. Auto shutter tool

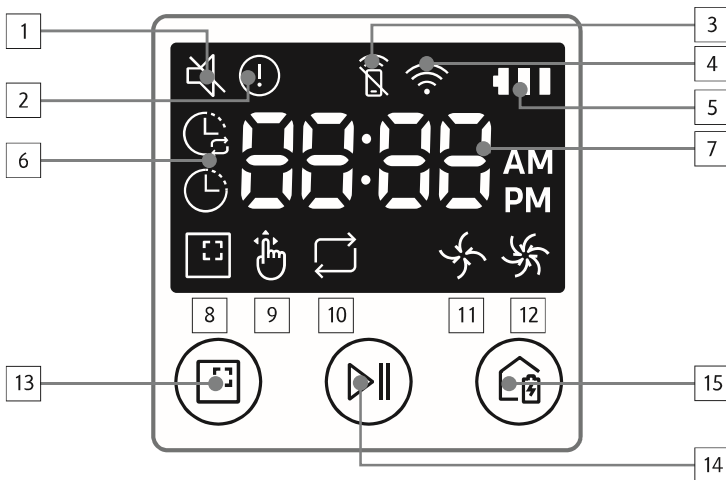


Display panel

<SR10M701*** series>

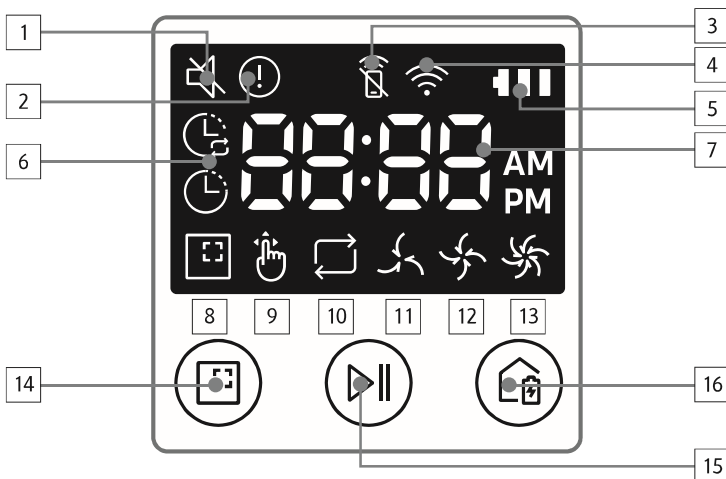
1. Daily schedule
2. Normal/Turbo mode
3. Battery indicator
4. Spot cleaning button, daily schedule(3sec)
5. Start/Stop button, turbo mode(3sec)
6. Recharging button

Name of each part



<SR10M702*** / SR10M703*** / SR10M704*** series>

1. Mute
2. Information Indicator
3. *Smart Control Off/On indicator
4. *Wi-Fi
5. Battery indicator
6. One-time/Daily schedule
7. Number display
8. Spot clean mode
9. Manual clean mode
10. Repeat clean mode
11. Normal mode
12. Turbo mode
13. Spot cleaning button
14. Start/Stop button
15. Recharging button



<SR20M70**** series>

1. Mute
2. Information Indicator
3. *Smart Control Off/On indicator
4. *Wi-Fi
5. Battery indicator
6. One-time/Daily schedule
7. Number display
8. Spot clean mode
9. Manual clean mode
10. Repeat clean mode
11. Quiet mode
12. Normal mode
13. Turbo mode
14. Spot cleaning button
15. Start/Stop button
16. Recharging button

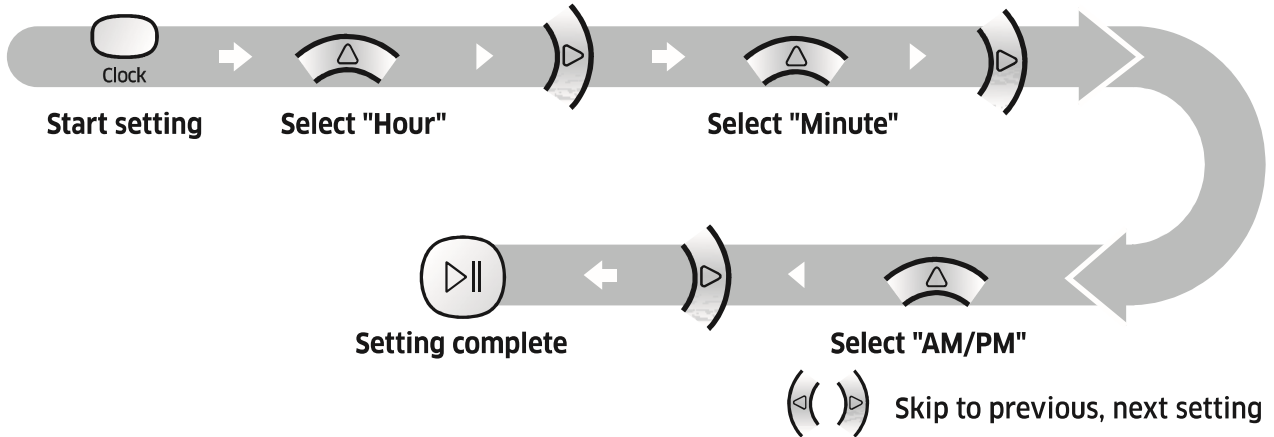
*SR10M70**W* / SR20M70**W* : Wi-Fi supported model

Setting time/schedule

[A Type, B Type] Only Auto clean mode can be scheduled.

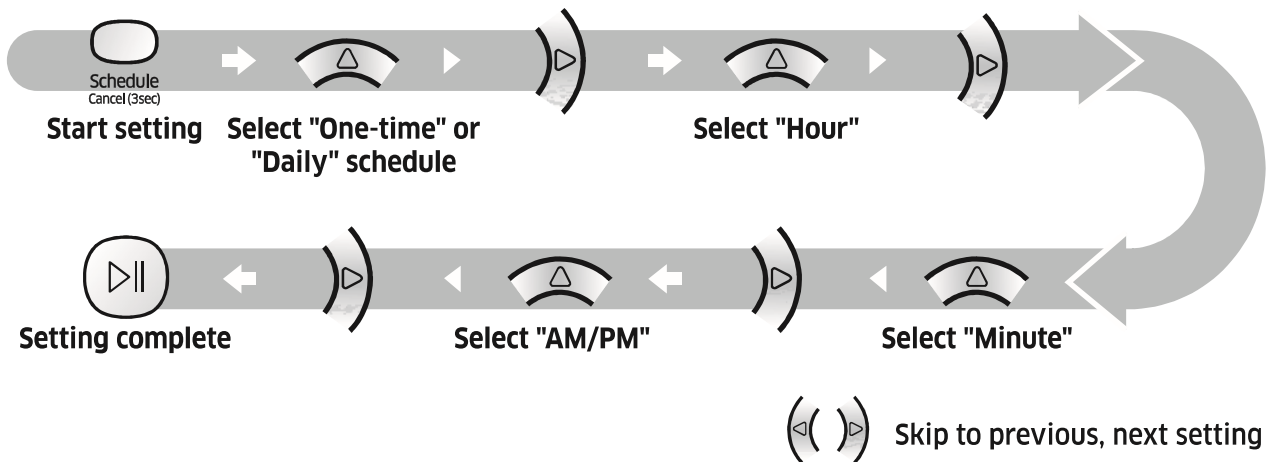
Setting the time

You must set the current time before using the One-time/daily schedule.



Setting the schedule

Setting/cancelling the schedule can only be done while POWERbot is docked on the docking station.



Cancelling during setup



▶ Setting will be canceled automatically when there's no input for 7 seconds.

Cancelling One-time/Daily schedule

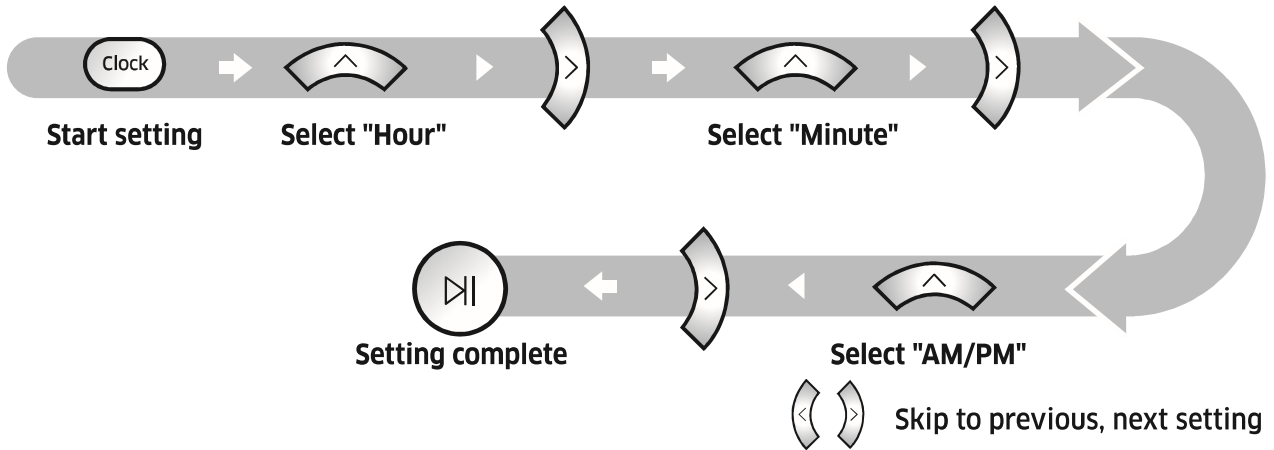
When both One-time/ Daily schedule is set	→ or → or
When either one of One-time or Daily schedule is set	
	<p>Press for 3 sec. Select the schedule Cancel complete</p> <p>Press for 3 sec.</p>

Setting time/schedule

[C Type, D Type] Only Auto clean mode can be scheduled.

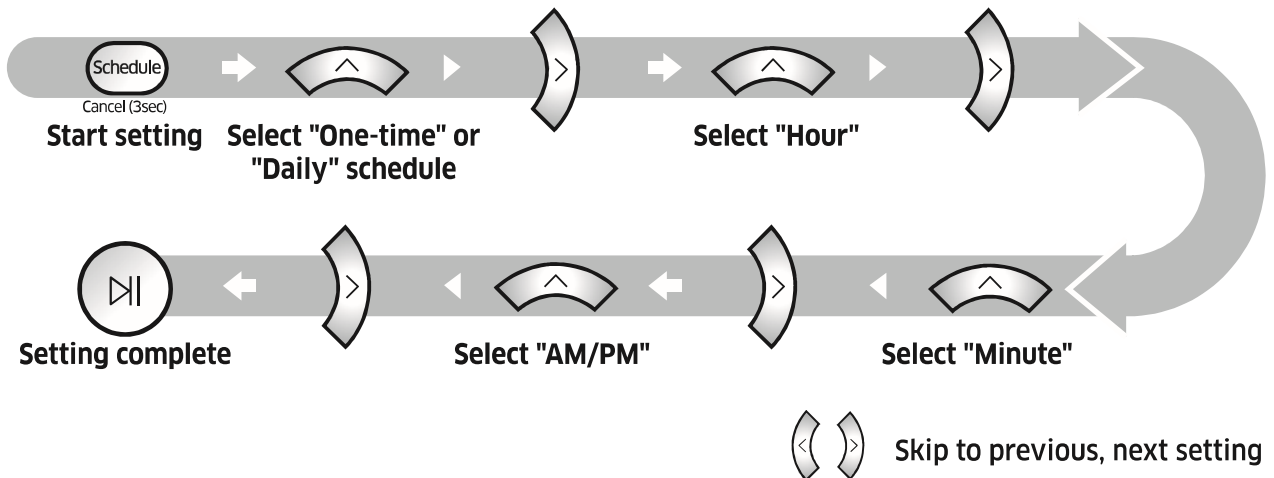
Setting the time

You must set the current time before using the One-time/daily schedule.



Setting the schedule

Setting/cancelling the schedule can only be done while POWERbot is docked on the docking station.



Cancelling during setup



▶ Setting will be canceled automatically when there's no input for 7 seconds.

Cancelling One-time/Daily schedule

When both One-time/ Daily schedule is set	→ or → or
When either one of One-time or Daily schedule is set	
	Press for 3 sec. Select the schedule Cancel complete
	Press for 3 sec.

[SR10M701*** series] For the models which do not include a remote controller, schedule setting is available as below.

Setting the schedule

Setting/cancelling the schedule can only be done while POWERbot is docked on the docking station.



Press for 3 sec.



When the schedule LED is turned on, Daily schedule is set.

* The time you press the button will be set as a schedule. Cleaning will be automatically done everyday according to the schedule time.

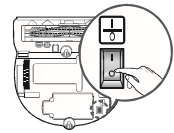
Cancelling daily schedule

When a daily schedule is set



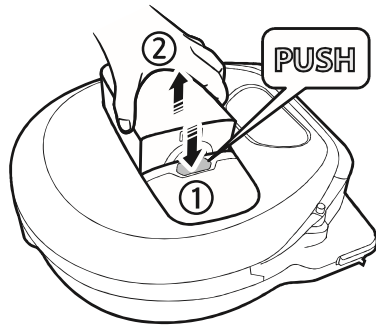
Press for 3 sec.

Cleaning and maintaining

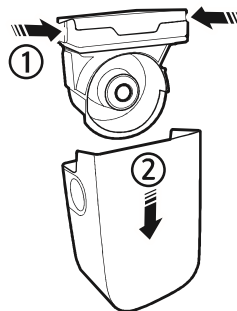


You must turn off the emergency switch before cleaning POWERbot.

Cleaning the dustbin



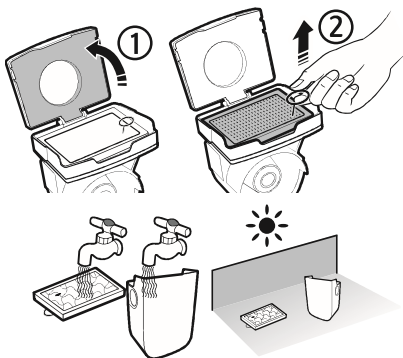
1 Press the button to remove the dustbin



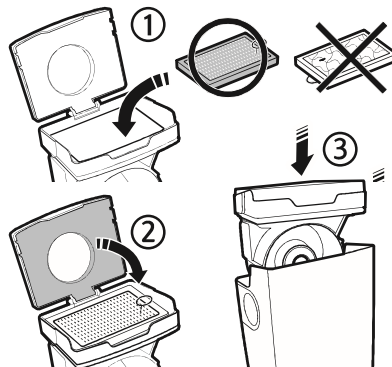
2 Remove the dustbin cover



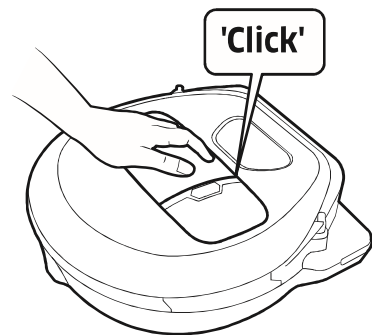
3 Remove dust in the dustbin and cyclone unit



4 Detach the cyclone unit from the dustbin cover, and then wash the dustbin and the filter



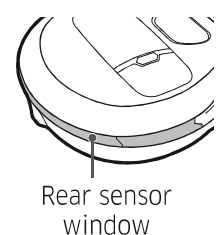
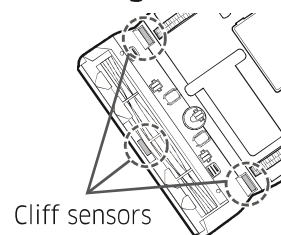
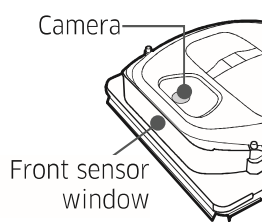
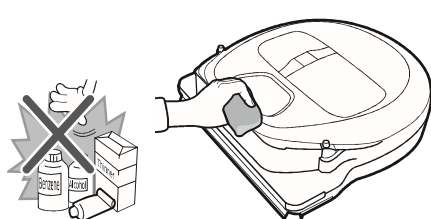
5 Reassemble the dustbin



6 Reinsert the dustbin into the main body until it clicks

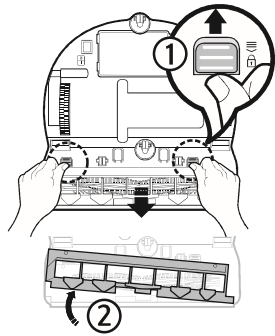
Cleaning the sensors and the camera

Lightly wipe with soft cloth. Do not use water or cleaning solutions.

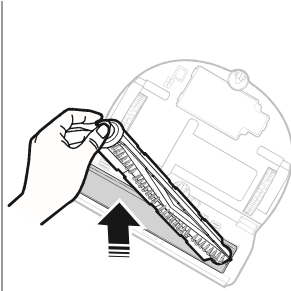


Cleaning the brush and Auto shutter tool

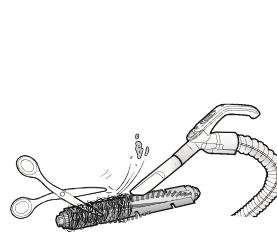
Brush design may differ depending on the model.



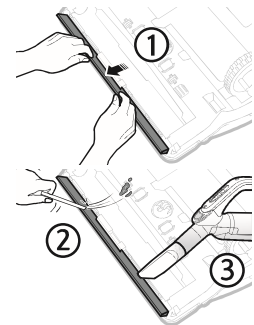
1 Remove the brush cover



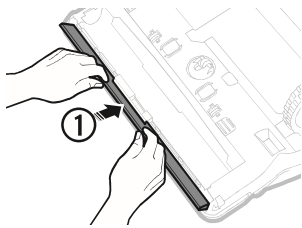
2 Remove the brush



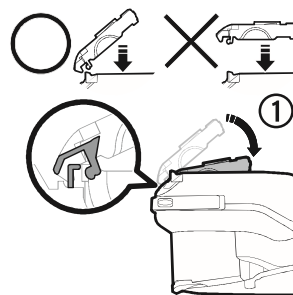
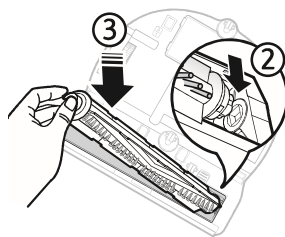
3 Clean the brush



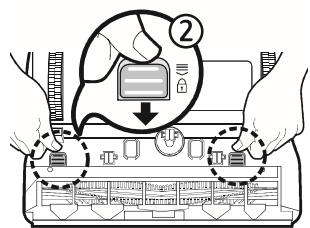
4 Clean the auto shutter tool



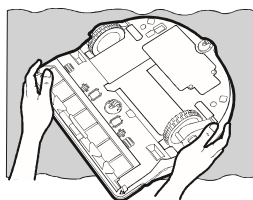
5 Reassemble the brush



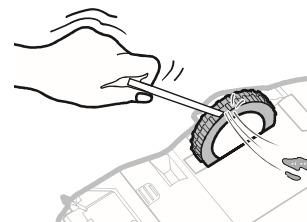
6 Reassemble the brush cover



Cleaning the Driving wheel



1 Put a soft cloth on the floor and place POWERbot upside-down on the cloth.



2 Use a blunt rod or tweezers to remove foreign matter.

Samsung Connect App

The Samsung Connect App is only compatible with models that have a Wi-Fi function.

Setting up the wireless router

- ▶ Please refer to the user manual of your wireless router if you have access problems.
- ▶ Samsung POWERbot supports only Wi-Fi 2.4 Ghz.
- ▶ Samsung POWERbot supports IEEE 802.11b/g/n and Soft-AP.
 - IEEE 802.11n is recommended.
- ▶ Samsung POWERbot supports only DHCP (Dynamic Host Configuration Protocol). Please make sure that the DHCP server option is activated on your wireless router.
- ▶ POWERbot supports the WEP-OPEN, WPA-PSK/TKIP, and WPA2-PSK/AES for the authentication and encryption protocols.
 - WPA2-PSK/AES is recommended.
 - Confirm that your router has a unique SSID and password.
- ▶ The quality of your wireless network connection may be influenced by the surrounding wireless environment.
- ▶ If your Internet service provider has permanently registered the MAC address (a unique identification number) of your PC or modem, your POWERbot may not be able to connect to the Internet. Ask your Internet service provider about the procedure to connect an apparatus other than a PC to the Internet.
- ▶ If your internet service provider requires your ID or password to connect to the internet, your POWERbot may not be able to connect. If this is the case, you must enter your ID or password when connecting to the Internet.
- ▶ The POWERbot may not be able to connect to the Internet because of firewall issues. Contact your Internet service provider to resolve these issues.
- ▶ Some wireless routers may transmit an abnormal Domain Name Server (DNS) address even if the Internet is not connected. If this occurs, contact the manufacturer of your wireless router and your Internet service provider.
- ▶ If you still cannot connect to the Internet even after trying the procedure provided by your Internet service provider, please contact an authorized Samsung service center.
- ▶ If your router is not a Wi-Fi certified product, The POWERbot may not be able to connect to the Internet.

Downloading the Samsung Connect App

- ▶ Download and install the Samsung Connect app from the markets (Google Play Store, Apple App Store, or Samsung Galaxy Apps). To find the app, use the keyword “Samsung Connect”.

Note

- ▶ Samsung Connect is incompatible with tablets and some mobile devices.
 - [Android] 6.0 or later (at least 2GB of RAM) is recommended.
- ▶ iPad and some mobile devices may not be supported.
 - [iOS 10.0] or later / iPhone 6 or later is supported.
- ▶ Visit Play Store or App Store to see if your mobile device is compatible with Samsung Connect.
- ▶ The supported features are subject to change without any prior notice.

Setting up a Samsung account

- ▶ You must sign in to a Samsung account before using the Samsung connect app.
- ▶ To set up a Samsung account, you can follow the directions provided by the Samsung Connect app.
- ▶ Or, if you have a Samsung smartphone, you can add your Samsung account in the setting app of your smartphone. Then, it will automatically sign in to your Samsung account.


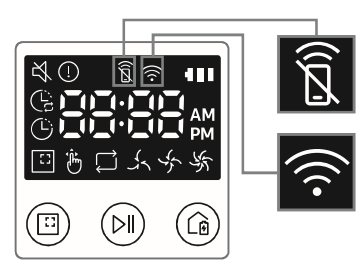



Samsung Connect App

Adding a device to the Samsung Connect APP

1. Connect your smartphone to your wireless router.
2. Launch the Samsung Connect app on your smartphone.
3. If a pop-up saying that a new device has been found appears, tap ADD NOW.
 - If the pop-up doesn't appear, tap the + button and select the device which you want to connect from the list of AVAILABLE DEVICES.
 - If your device doesn't appear in the list, add the device manually by selecting the device type and selecting the specific device model.
4. [Android] The connection to your device will be progressed automatically.
 - [iOS] Open the setting app, and select [Robot vacuum] Samsung in the Wi-Fi list.
5. Provide the authentication when you are directed to do so.
6. [Android] The connection to your wireless router will be progressed automatically.
 - [iOS] Open the setting app, and select the wireless router in the Wi-Fi list.
7. The remaining setup will be automatically done. Then, a new Device Card will be added.

Note

- ▶ If you cannot complete the product registration, please take the following steps.
 - Try the registration procedure again as you have directed by the pop-up messages.
 - Confirm that the UPnP option of your wireless router is active, and then try the registration procedure again.
 - Confirm that your wireless router is operating in wireless mode, and then try the registration procedure again.
 - If you have two or more POWERbots, turn off the other POWERbots, and then try to register your POWERbot again.
 - If there is any other wireless router that has the same SSID as your wireless router, the registration might be failed.
- ▶ Smart control and Wi-Fi indicator

	On	Smart control is blocked. (The remote controller can still be allowed.)	
	Off	Smart control is allowed.	
	On	The POWERbot is connected to the wireless router.	
	Off	The POWERbot is trying to connect the wireless router.	

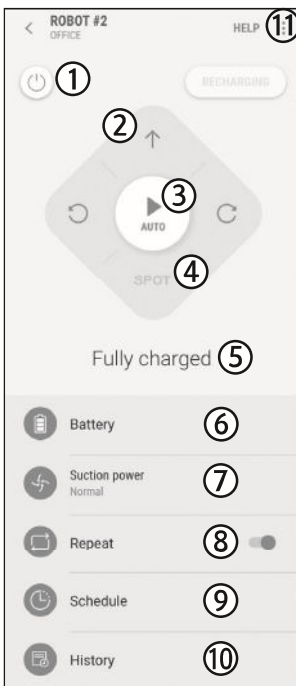
- ▶ When the Smart control is blocked, you cannot control the POWERbot on your smartphone.
- ▶ The POWERbot and your smartphone are not connected to the same wireless router, a response delay may occur depending on your network environment.

Software Update

- ▶ When the POWERbot is charging on the docking station, the POWERbot connects to the server and then checks if a software is available. If a new software is found, POWERbot will automatically download and update it.
- ▶ If “UP” is displayed on the display panel while the POWERbot is charging, it means that an update is in progress. Please wait for completing the update before using the POWERbot.

Using the Samsung Connect APP

- ▶ When you tap the device card on the Samsung Connect app, the plug-in for your device will be launched.



1. Power (on / off)
2. Directional controls with Manual clean mode (Forward, Left turn, Right turn)
3. Auto clean mode (start /stop)
4. Spot clean mode
5. Current status
6. Battery status
7. Suction power
8. Repeat option (on / off)
9. Schedule (Once / Daily)
 - The current time of the device will be synchronized when entering the schedule setting.
 - A scheduled cleaning will only be started when the device is charging on the docking station.
10. Cleaning history
11. Settings > Voice Guide

Notes and cautions

Charging

Note

- ▶ If the battery overheats during charging, it may take longer to charge.
- ▶ When automatic charging is not working, do the following:
 - Turn the emergency switch (on the bottom of POWERbot) off and on again.
 - Unplug the docking station's power plug and then plug it back on.
 - Unplug the docking station, and then check whether there is any foreign matter on the charge pins and clean POWERbot and the charge pins of the docking station with a dry cloth or rag.
 - Check for any obstacles such as reflective objects, chairs, etc. near the docking station.
- ▶ If POWERbot is left detached from the docking station, the battery will drain naturally.
 - Try to keep POWERbot being charged on the docking station. (However, turn off the emergency switch and leave the docking station unplugged when planning to leave the house for long periods of time by going on a business trip or vacation, etc.)

Using

Note

- ▶ The POWERbot may get caught on thresholds, etc. during cleaning.
 - To restart operation, shut off the emergency switch, move the POWERbot to an area where it can move easily, and then turn on the power again.
- ▶ The POWERbot cannot completely clean areas it cannot enter, such as corners, between the wall and sofa, etc.
 - Please use another cleaning tool to clean them regularly.

- ▶ The POWERbot cannot vacuum clumps of dirt, so some may remain on the floor after cleaning.
 - Please use another cleaning tool to clean them regularly.
- ▶ If POWERbot is turned off, you cannot turn it on by pressing the Power button on the remote control. Press and hold the [Start/Stop] button on POWERbot.
- ▶ You cannot select and have the POWERbot execute Spot clean mode while it is charging.
- ▶ If you press Manual clean / Point cleaning button while charging, the POWERbot will be detached from the docking station and then turn into the standby mode.

Cleaning and maintenance

Note

- ▶ If you washed the dustbin and filter with water
 - Dustbin: Completely wipe out the water.
 - Filter: Completely dry it in the shade before using.
- ▶ When cleaning the auto shutter tool, do not pull the auto shutter tool out too hard.


Caution

- ▶ Watch your fingers when attaching or detaching the filter, since they may get stuck in the dustbin's intake.
- ▶ To avoid blockages by foreign matter, do not let the POWERbot vacuum up toothpicks, cotton swabs etc.
- ▶ If it is difficult to remove foreign matter from the brush, contact an authorized Samsung service center.

- ▶ Since the brush removes dirt from the floor during cleaning, foreign matter such as thread, long hair, etc. may get caught in it. For the best cleaning results, check and clean it regularly.
- ▶ If a brush or brush cover is not assembled correctly after the maintenance work, scratches may occur on the floor, or product malfunction may occur. Therefore, assemble them correctly by checking the maintenance method.

About the battery

Note

- ▶ Purchase batteries at authorized Samsung centers and check for the symbol () which is stuck on the battery and the model name before purchasing.
- ▶ This battery is exclusively for the Samsung Electronics POWERbot. Do not use it for any other product.
- ▶ Do not disassemble or modify the battery.
- ▶ Do not throw the battery out in fire or heat it.
- ▶ Do not connect any metallic object to the charging contacts (+, -).
- ▶ Store the battery indoors (at 0 °C~40 °C).
- ▶ If the battery malfunctions, do not disassemble it yourself. Contact your nearest Samsung service center.
- ▶ Battery charging time and usage time may decrease the more the battery is used. If the battery's lifespan has been exceeded and it no longer docking stations properly, have it replaced at a Samsung service center.
- ▶ The battery warranty period is 6 months from the date of purchase.

About the IrDA sensor

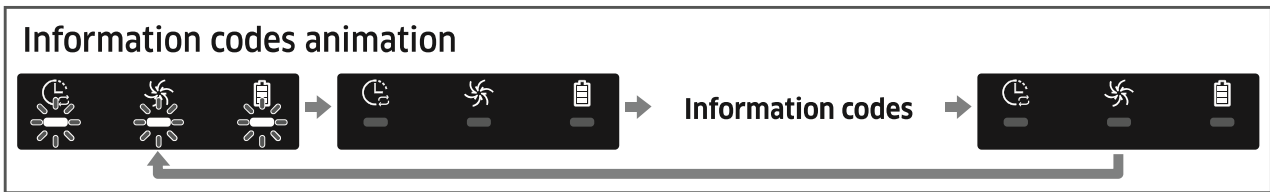
Caution

- ▶ Infrared signal transmission may not be smooth in locations exposed to halogen lamps or in outdoor locations.
- ▶ The POWERbot uses 3 types of infrared devices. Each of the devices has a different priority level. A device may not work if its signal is superseded by a device with a higher priority.
 - Infrared signal Priority: Smart control > Docking station
- ▶ Different infrared signals may interfere with one another and cause the devices to malfunction if they are used together in a small space or in close proximity.
- ▶ If more than one POWERbot is used simultaneously, they may malfunction due to interference between infrared signals.

Information codes

<SR10M701*** series>

- 1 The three indicators below blink and an information codes alarm sounds.
- 2 Turn off the emergency switch and check the below instructions and take appropriate action
- 3 Information code will disappear when you turn on the emergency switch



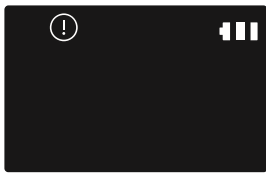
Information codes	Checklist
	The POWERbot is caught, stuck or trapped while moving around. ▶ Turn off the emergency switch and move the POWERbot to another area.
	Foreign matter caught in the brush. ▶ Turn off the emergency switch and remove the foreign matter from the brush.
	Foreign matter caught in the left Driving wheel. ▶ Turn off the emergency switch and remove the foreign matter from the Driving wheel.
	Foreign matter caught in the right Driving wheel. ▶ Turn off the emergency switch and remove the foreign matter from the Driving wheel.
	Bumper sensor needs to be checked. ▶ Turn off the emergency switch and turn it back on. ▶ When information code does not disappear, check if there's any small foreign matter between the bumper and the main body. If there is, pull the bumper slightly and remove the foreign matter.
	Foreign matter accumulated on the obstacle sensor. ▶ Turn off the emergency switch and clean the front and rear sensor with a soft cloth.
	Foreign matter accumulated on the cliff sensor. ▶ Turn off the emergency switch and clean the cliff sensor with a soft cloth.
	Main PCB needs to be checked. ▶ Turn off and restart the product. If the same problem occurs repeatedly, a service check is required.

<SR10M702***, SR10M703***, SR10M704***, SR20M70**** series>

1 The information code below is shown with an error alarm.

2 Turn off the emergency switch and check the below instructions and take appropriate action

3 Information code will disappear when you turn on the emergency switch

Information codes	Checklist
	<p>The POWERbot is caught, stuck or trapped while moving around.</p> <p>▶ Turn off the emergency switch and move the POWERbot to another area.</p>
C 01	<p>Foreign matter caught in the brush.</p> <p>▶ Turn off the emergency switch and remove the foreign matter from the brush.</p>
C 02	<p>Foreign matter caught in the left Driving wheel.</p> <p>▶ Turn off the emergency switch and remove the foreign matter from the Driving wheel.</p>
C 03	<p>Foreign matter caught in the right Driving wheel.</p> <p>▶ Turn off the emergency switch and remove the foreign matter from the Driving wheel.</p>
C 05	<p>Bumper sensor needs to be checked.</p> <p>▶ Turn off the emergency switch and turn it back on.</p> <p>▶ When information code does not disappear, check if there's any small foreign matter between the bumper and the main body. If there is, pull the bumper slightly and remove the foreign matter.</p>
C 06	<p>Foreign matter accumulated on the obstacle sensor.</p> <p>▶ Turn off the emergency switch and clean the front and rear sensor with a soft cloth.</p>
C 07	<p>Foreign matter accumulated on the cliff sensor.</p> <p>▶ Turn off the emergency switch and clean the cliff sensor with a soft cloth.</p>
C 11	<p>Main PCB needs to be checked.</p> <p>▶ Turn off and restart the product. If the same problem occurs repeatedly, a service check is required.</p>

Troubleshooting

Symptom	Checklist
The POWERbot is not working at all.	<ul style="list-style-type: none"> ▶ Check if the emergency switch is on. ▶ Check if all the icons are displayed on the display panel. ▶ Check if the POWERbot's battery is depleted. <ul style="list-style-type: none"> - When "Lo" is displayed, place the POWERbot on the docking station to charge it. - When the battery indicator blinks, manually place the POWERbot on the docking station to charge. (Only SR10M701*** series) ▶ Replace the batteries (AAA type) if the remote control is not working.
The POWERbot has stopped during cleaning.	<ul style="list-style-type: none"> ▶ When "Lo" is displayed on the display panel, place the POWERbot on the docking station to charge it. ▶ When the battery indicator blinks, manually place the POWERbot on the docking station to charge. (Only SR10M701*** series) ▶ When POWERbot is immobilized by an obstacle such as a cord, threshold etc, pick it up and move it away from the obstacle. <ul style="list-style-type: none"> - If any fabric or string is caught in a drive wheel, turn off the emergency switch and remove the fabric or string before using it again.
Suction power is weak.	<ul style="list-style-type: none"> ▶ When there's too much dust in the dustbin, suction power may get weakened. Turn off the emergency switch and empty the dustbin. ▶ If the intake (on bottom of POWERbot) is blocked by foreign matter, turn off the emergency switch and remove foreign matter from the intake. ▶ When noise suddenly increase, turn off the emergency switch and empty the dustbin.
The POWERbot cannot find the docking station.	<ul style="list-style-type: none"> ▶ Check if there's a power failure or whether the power plug is unplugged. ▶ Remove any obstacles around the docking station that may prevent POWERbot from returning to the docking station. ▶ When there's foreign matter on the charge pins, charging can be affected. Clean the foreign matter off the pins.
The POWERbot suddenly cleans diagonally.	<ul style="list-style-type: none"> ▶ Check if the docking station is installed along the grain of wooden floors or tiles. ▶ The POWERbot may clean in a diagonal direction if it is moving to another area using the shortest route. It may also move at a diagonal if it made contact with an obstacles at that angle, if it was charged at the docking station at an angle, or if the grain of the wooden/tile floor skewed is in that direction.
Point cleaning is not working.	<ul style="list-style-type: none"> ▶ If you point the red light directly at POWERbot, it may not move in desired direction. <ul style="list-style-type: none"> - Point the red light on the floor within 0.5 m of POWERbot. ※ Do not use point cleaning in direct sunlight, under bright light, or on dark floors.

Symptom	Checklist
I have installed the Samsung Connect app, but, the POWERbot fails to be connected.	▶ You can use the product after connecting the wireless router and the POWERbot through Easy-Setup according to the procedure.
I fail to log into the Samsung account.	▶ Check your ID and password on the screen of the Samsung account.
There appears a message saying there is a failure during Easy-Setup.	▶ You may have failed temporarily due to the distance from the wireless router or other obstacles. Please try again after a while.
The products do not work even though the smart phone is normally connected to the POWERbot.	▶ Turn off the Samsung Connect app and then run it again, or disconnect the smart phone from the wireless router and then connect it again. Or turn off the power supply of the POWERbot, turn it on, wait for a minute or longer, and then run the Samsung Connect app again.
The functions of the Samsung Connect App do not work.	▶ Check if the Smart control blocking function of the POWERbot is set. (When the Smart control is locked, the Wi-Fi indicator is turned off.)
The Samsung Connect Robot Vacuum App fails to get started.	▶ Check if the POWERbot is connected to the wireless router.
POWERbot is not connected to Wi-Fi.	▶ Check the setting status of the wireless router.
Intelligent power control function works on a normal floor.	<ul style="list-style-type: none"> ▶ Check whether the floor is not even and then the POWERbot works with its body a bit lifted up. ▶ Check whether there are any foreign matters on the cliff sensor which is at the bottom of the POWERbot. ▶ Check whether the floor color is dark.
Intelligent power control function does not work.	▶ When the POWERbot cleans a carpet with short fibre and bright color, it may recognize the carpet as a floor and then the Intelligent power control function may not work.
Edge clean master function does not work.	<ul style="list-style-type: none"> ▶ When POWERbot cannot recognize the wall, the Edge clean master may not work. <ul style="list-style-type: none"> - When an obstacle made of reflective material is in front of the wall - When the wall itself is made of reflective material - When the wall is a dark color
Edge clean master function works though there is no wall or corner.	<ul style="list-style-type: none"> ▶ Check whether small obstacles are arranged in a narrow space. ▶ When the POWERbot recognizes the front obstacle as a wall, Edge clean master function may work.
The Edge clean master function works though the POWERbot has not approached a wall or corner.	▶ When the degree of the angle of a corner which the POWERbot detects is large, the Edge clean master function may work without approaching the wall or corner.

Troubleshooting

Symptom	Checklist
Samsung Connect App cannot be installed.	<ul style="list-style-type: none"> ▶ Samsung Connect App operates on Andorid OS 6.0 or higher, iOS 10 or higher. ▶ The supporting OS version for Samsung Connect App may change later. ▶ For rooted smart devices, standard installation and use will not be guaranteed.
A message of product registration failure appears.	<ul style="list-style-type: none"> ▶ Try the product registration procedure again by referring to the pop-up messages. ▶ Please refer to the "Setting up the wireless router" in the user manual. ▶ Please refer to the steps for completing the product registration in the user manual section "Adding a device to the Samsung Connect APP". ▶ When the product registration fails repeatedly, reset the POWERbot and Smartphone, run the Samsung Connect App again and try the product registration. ▶ The same Samsung account should be used for the login of App and product registration. ▶ All users should use the Samsung account issued by the same country.
During product registration, recharging button is pressed and held as instructed but the next step does not appear.	<ul style="list-style-type: none"> ▶ Press the recharging button until you hear it beep. ▶ If the next step does not appear within several seconds, press the recharging button one more time.
During product registration, the wireless router I want to connect cannot be searched.	<ul style="list-style-type: none"> ▶ Cancel the product registration, run the Samsung Connect App again, and try the product registration again.
During product registration, the AP password 1111122222 is not input correctly.	<ul style="list-style-type: none"> ▶ Press and hold the "[Robot Vacuum] Samsung" on the network list and delete the network to initialize the password.
During product registration, the password of the connecting wireless router is not input correctly.	<ul style="list-style-type: none"> ▶ Cancel the product registration, run the Samsung Connect App again, and try the product registration again. ▶ Press and hold the wireless router you want to connect on the network list, and delete the network to initialize the password.
A connection cut between the Samsung Connect App and the POWERbot occurs though the product registration is completed.	<ul style="list-style-type: none"> ▶ Refresh the screen and wait. ▶ Run the Samsung Connect App again. ▶ Check whether there is an internet connection problem. Especially, a firewall may interrupt standard operation.

Symptom	Checklist
<p>A connection cut between the Samsung Connect App and the POWERbot suddenly occurs during normal operation of the app.</p>	<ul style="list-style-type: none"> ▶ If the POWERbot is distant from a wireless router, connection cut may occur. ▶ Reset the POWERbot and the smart phone, and check the connection again. ▶ If the connection cut occurs repeatedly, try the product registration again. ▶ When the SSID/password of a wireless router is changed, try the product registration again.
<p>Controlling with Samsung Connect App does not work since the remote control function is disabled.</p>	<ul style="list-style-type: none"> ▶ Remote control function is disabled status. Make the remote control function enabled status with a remote controller.

Open Source Announcement

The software included in this product contains open source software. You may obtain the complete corresponding source code for a period of three years after the last shipment of this product by sending an email to <mailto:oss.request@samsung.com>.

It is also possible to obtain the complete corresponding source code in a physical medium such as a CD-ROM; a minimal charge will be required.

The following URL http://opensource.samsung.com/opensource/VR7000_A20_TZ/seq/0 leads to the download page of the source code made available and open source license information as related to this product. This offer is valid to anyone in receipt of this information.



Specifications

<SR10M70**** series>

Classification	Item	Detail information		
		SR10M701***	SR10M702*** SR10M703*** SR10M704***	
Mechanical specifications (POWERbot)	Size (D x H x L)	340 mm x 97 mm x 348 mm		
	Weight	4 kg		
	Sensor	Ceiling shape recognition (Visionary mapping plus TM)		
	Button type of POWERbot	Touch type		
Power specifications	Power voltage	100-240 V~, 50 Hz/60 Hz		
	Power consumption	80 W		
	Battery specifications	21.6 V/ 38.8 Wh		
Cleaning	Charging type	Automatic charging/Manual charging		
	Cleaning mode	Auto, Spot, Daily schedule	Auto, Spot, Repeat, Manual, One-time schedule, Daily schedule	
	Charging time	Approximately 240 minutes		
	Cleaning time (On the basis of hard floor)	Turbo mode	Approximately 30 minutes	
		Normal mode	Approximately 60 minutes	

<SR20M70**** series>

Classification	Item	Detail information		
Mechanical specifications (POWERbot)	Size (D x H x L)	340 mm x 97 mm x 348 mm		
	Weight	4.3 kg		
	Sensor	Ceiling shape recognition (Visionary mapping plus TM)		
	Button type of POWERbot	Touch type		
Power specifications	Power voltage	100-240 V~, 50 Hz/60 Hz		
	Power consumption	130 W		
	Battery specifications	21.6 V/ 77.8 Wh		
Cleaning	Charging type	Automatic charging/Manual charging		
	Cleaning mode	Auto, Spot, Repeat, Manual, One-time schedule, Daily schedule		
	Charging time	Approximately 160 minutes		
	Cleaning time (On the basis of hard floor)	Turbo mode	Approximately 30 minutes	
		Normal mode	Approximately 60 minutes	
Quiet mode		Approximately 90 minutes		

* For product improvement purposes, design and specifications of the product are subject to change without prior notice.

* Charging and cleaning times may differ according to conditions of use.