

# iRobot® Roomba® OWNER'S MANUAL



.....  
**SAVE 15%**  
on accessories.  
See back for details.  
.....

i♥Robots

**iRobot®**  
[www.irobot.com](http://www.irobot.com)



# **iRobot®**

Dear iRobot® Roomba® Owner,

Welcome to the new world of iRobot. As an owner of iRobot's latest Roomba Vacuuming Robot, you join a growing group of people around the globe who, like you, are discovering a smarter way to clean.

Having practical robots that help you in your home is a new reality. We encourage you to share your feedback as we continue to develop new and better robots. Here's what you can do to participate in our efforts:

- Communicate with us if you have questions, comments or require support. Many improvements to our products start with suggestions from customers like you. Visit us at [www.irobot.com](http://www.irobot.com).
- Register online or by mail. You'll be among the first to hear about our newest robots, product enhancements and special offers.

Thank you for joining the robot revolution. We look forward to your valued input as we continue to deliver groundbreaking products that will change and improve your world.


On behalf of the entire iRobot team,

A stylized, handwritten signature in black ink, appearing to read 'Colin Angle'.

Colin Angle  
Co-Founder and CEO  
iRobot Corporation

# Important Tips

 Remove and clean Roomba's brushes after every 3 uses.

 Roomba contains electronic parts. Do NOT submerge Roomba or spray with water. Clean with a dry cloth only.

 Always consult your floor manufacturer for approved cleaning methods.

## For Best Performance

- Roomba® is very effective at picking up hair. Remove and clean Roomba's brushes after every 3 uses.
- Empty Roomba's bin and clean its filter after every 3 uses.
- Always store Roomba connected to its charger or Home Base™.
- Use the Virtual Walls® to keep Roomba cleaning where you want it.
- Keep wheels and brush free of hair and debris by inspecting and cleaning the bottom of the robot regularly.

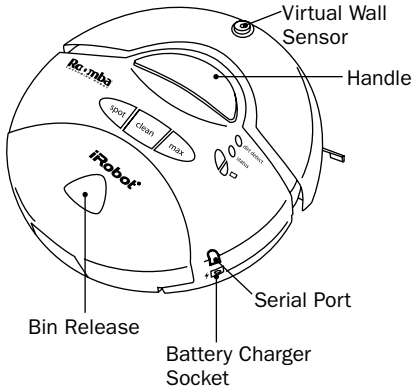
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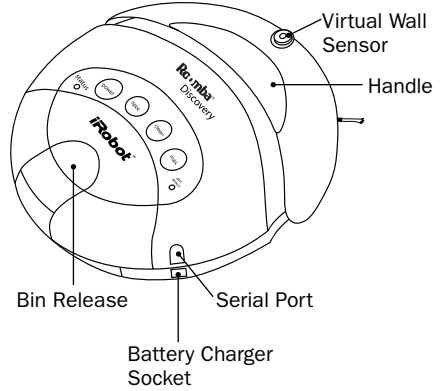
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# Anatomy

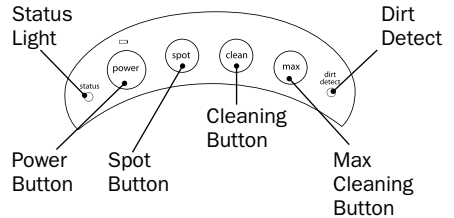
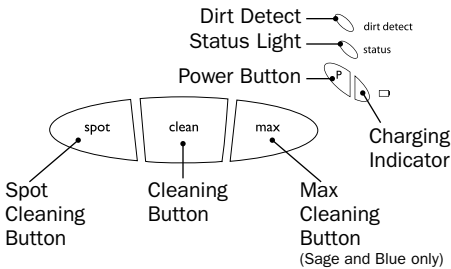
## 4100 Model Series (Red, Sage, Blue)



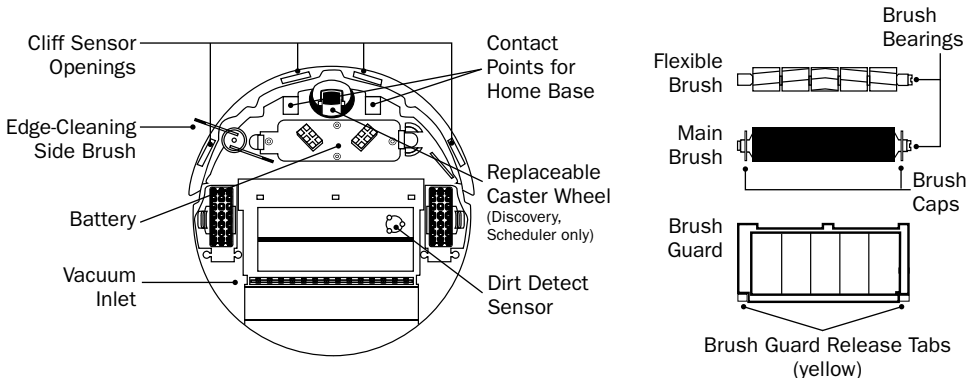
## 4200 Model Series (Discovery, Scheduler)



## Buttons and Lights



## Bottom View



# Cleaning Pattern

Roomba is a robot that cleans differently than the way most people clean their floors. Roomba uses iRobot's AWARE™ Robot Intelligence System to determine the best way to pass over and clean every section of the floor.

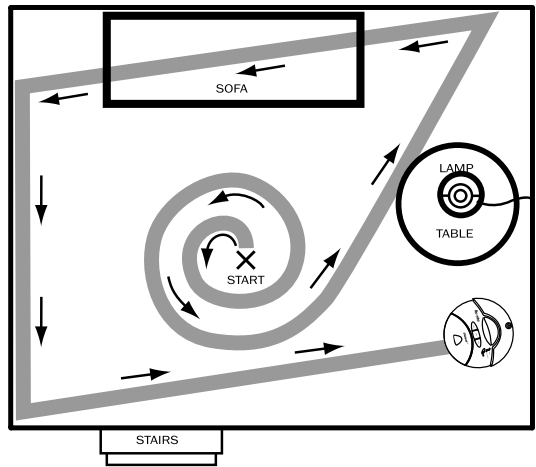
**Roomba calculates the optimal cleaning path as it cleans and determines when to use its various cleaning behaviors:**

**Spiraling:** Roomba uses a spiral motion to clean a concentrated area.

**Wall Following:** Roomba uses this technique to clean the full perimeter of the room and navigate around furniture and obstacles.

**Room Crossing:** Roomba criss-crosses the room to ensure full cleaning coverage.

**Dirt Detection:** When Roomba senses dirt, the blue Dirt Detect™ light is lit and Roomba cleans more intensely in that area.



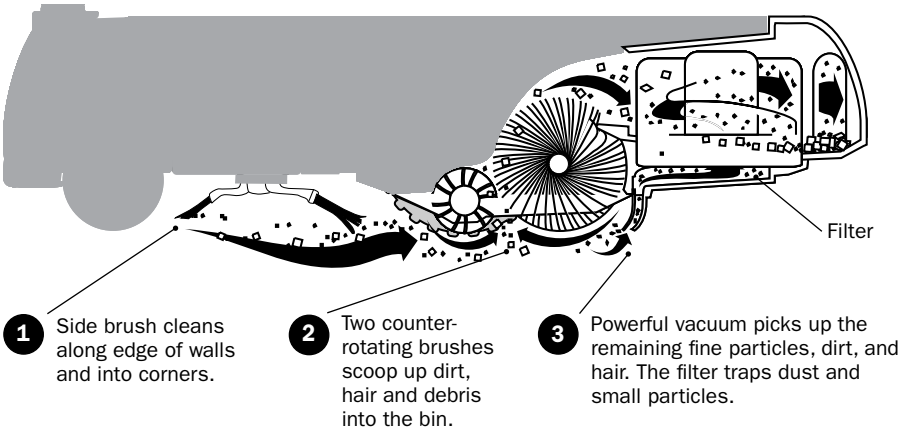
**TIP: Roomba takes approximately 45 minutes to clean an average room and will pass over the same area of the floor multiple times to ensure total floor coverage.**

**TIP: For fastest cleaning and best performance, clear your floor of clutter and use a Virtual Wall to confine Roomba to one room.**

**TIP: Wires should be elevated off of the floor and rug tassels should be tucked under the rug to prevent Roomba from getting stuck.**

# Cleaning System

Roomba features a patented 3-stage cleaning system.



## Floor Surfaces

Roomba works on wood, carpet, tile, vinyl, and linoleum, and will automatically transition between different floor types. Roomba is not recommended for shag carpet or rugs with tassels.



# Cleaning Modes

Roomba will clean based on the cleaning mode you select. Roomba has up to four cleaning modes, depending on your model:

## **Clean Mode (all models)**

Roomba automatically calculates the room size and adjusts its cleaning time appropriately. Roomba may clean for up to 60 minutes.

## **Spot Mode (all models)**

Roomba will spiral approximately 3 feet in diameter and then spiral back to where it started, intensely cleaning a localized area.

## **Max Mode**

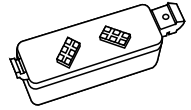
Roomba runs until its battery is nearly depleted, up to 120 minutes.

## **Scheduled Cleaning Mode**

When a cleaning time is programmed with the iRobot Scheduler Remote, Roomba enters Scheduled Cleaning Mode. When Roomba is in Scheduled Cleaning Mode, the status light blinks amber. At the specified time, Roomba leaves its Home Base, cleans for up to 60 minutes and returns to the Home Base to recharge when it is done.

# Battery Storage and Charging

Roomba is powered by a Nickel Metal Hydride (NiMH) rechargeable battery. Roomba's battery can last for hundreds of cleaning cycles before a replacement is necessary.



## Battery Life

To extend the battery life, we recommend storing Roomba's battery in the robot with the power supply plugged in, or with Roomba on the Home Base. If stored correctly, Roomba's battery will take less than 3 hours to recharge.

## Cleaning Time

You should fully charge Roomba's battery before each cleaning cycle. When fully charged, Roomba will clean for up to 120 minutes on hard floors and for slightly less time on rugs.

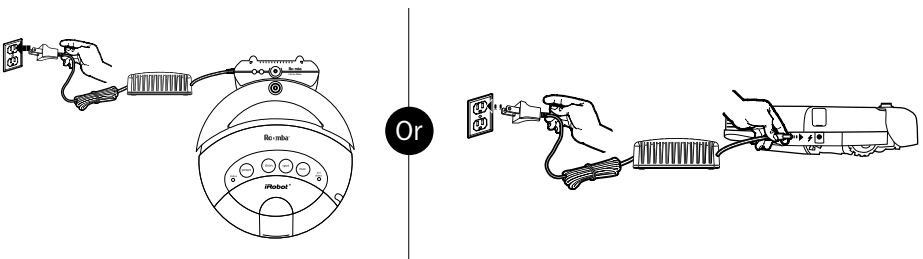
## 16 Hour Refresh Charge

When charging for the first time, or if Roomba has been left off the charger for a long time, Roomba will initiate a special 16-hour charge cycle. This extended charge refreshes Roomba's battery and extends the life of the battery.

**TIP: For best performance, always store Roomba's battery in Roomba with Roomba plugged in or on the Home Base. Charge Roomba's battery overnight for the first charge.**

## Charging Roomba

Charge Roomba in one of two ways:

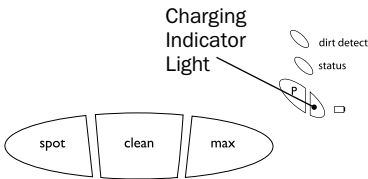


## Charging Lights

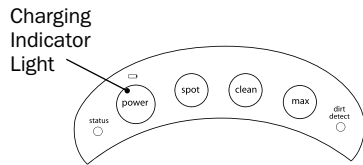
All Roomba models have a charging indicator light. Use this chart to determine the status of the battery:

Charging Indicator Light	Battery Status
Red	Battery empty
Amber pulse	Charging
Solid green	Fully charged

### 4100 Model Series



### 4200 Model Series

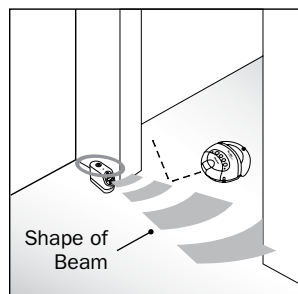


**TIP: When Roomba is on the Home Base, always make sure that the Home Base Power and Docked lights are on.**

# Virtual Walls®

The iRobot Roomba Virtual Walls create an invisible barrier that Roomba will not cross. The Virtual Walls can be set to block an area ranging from three to eight feet long.

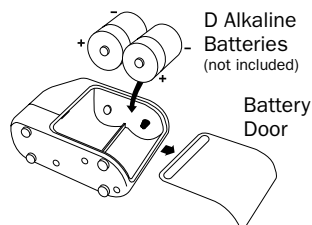
**TIP: Use the Virtual Walls to block doorways or to keep Roomba away from cords. Confining Roomba to a single room will accelerate cleaning.**



The Virtual Wall beam is keyhole shaped. A small halo prevents Roomba from bumping into the Virtual Wall and a larger lobe-shaped section blocks off areas of your home where you don't want Roomba to go.

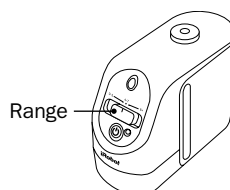
## Battery Installation

The Virtual Wall requires 2 “D” batteries and automatically shuts off after 110 minutes. If the power light blinks green, the batteries will soon need replacement.



## Range Adjustment

Use the slider bar to adjust the length of the barrier. A higher range will drain the battery faster.



**TIP: For best performance, place the Virtual Wall on the outside of the doorway you wish to block. Set the Virtual Wall to the shortest setting possible to extend battery life.**

**TIP: Scheduling Virtual Walls (when programmed) will turn on a few minutes before Roomba. See page 18 for details.**

Additional Virtual Walls may be purchased at [www.irobot.com](http://www.irobot.com).

# Home Base™

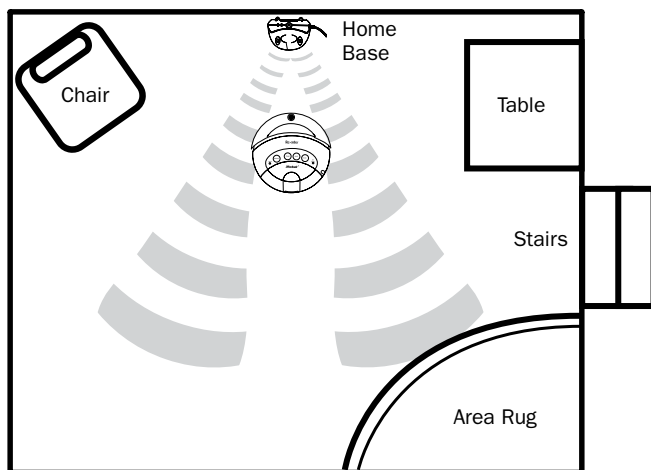
Roomba returns to the Home Base at the end of a cleaning cycle or when its battery is running low. Roomba needs to find the infrared signal of the Home Base in order to return.

Always keep the Home Base plugged in. When Roomba is on the Home Base, the Power and Docked lights will be green to indicate Roomba is charging.

## Home Base Location

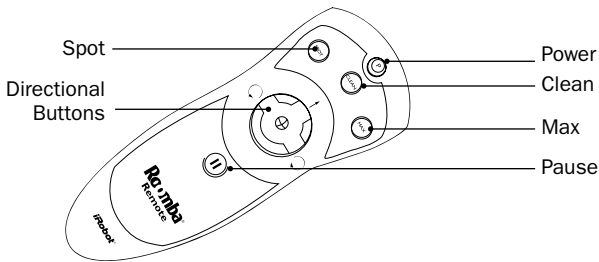
You should position the Home Base on a hard level surface and in an area where Roomba has a clear path to return to the dock at the end of a cleaning cycle. If Roomba is unable to dock on its first attempt, it will try again until it successfully docks.

To manually dock Roomba, place it within five feet of the Home Base and press Spot and Clean simultaneously. You can also drive Roomba toward the Home Base with the remote control, and Roomba will dock automatically.



**⚠ The Roomba Remote, Virtual Wall, and Home Base operate using an invisible infrared technology. If they are all used in the same area, Roomba may see multiple infrared signals and not operate. Roomba WILL NOT dock if you have a Virtual Wall near the Home Base. Fluorescent lights also can impact Virtual Wall and Home Base performance.**

# Remote Control



The Roomba Remote Control lets you conveniently control Roomba's functions. You can use it to turn Roomba on and off, and steer it around your room without bending down. It also gives you remote access to the following commands:

**Clean:** Start Roomba in Clean mode.

**Spot:** Start Roomba in Spot mode.

**Max:** Start Roomba in Max mode.

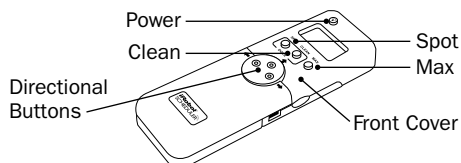
**Pause:** Pause Roomba in the middle of the cleaning cycle. Press pause again to continue.

Before using your remote for the first time, you must install 2 AA batteries (sold separately).

**TIP:** You can use the remote to direct Roomba to the Home Base. Once Roomba is in range and can "see" the Home Base, it will return to the base and dock itself automatically.

**⚠ The Roomba Remote Control, Virtual Walls, and Home Base all operate using an invisible infrared beam. If they are all used in the same area, Roomba may see multiple infrared signals and will not operate. The Remote WILL NOT work when the robot is near Virtual Walls.**

# Scheduler Remote Control



Scheduling  
Virtual  
Wall



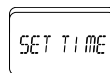
The Scheduler Remote Control is included with the Roomba Scheduler. Other Roomba models are compatible with the iRobot Scheduler Remote Control Upgrade.

To schedule Roomba to clean, use the Scheduler Remote Control to program your cleaning times. Then use the Scheduler Remote Control to send your schedule to Roomba and the scheduling Virtual Walls.

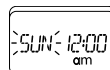
Install the batteries and set the time before using for the first time.

## Setting the Time

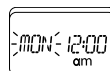
- 1 Open the Scheduler Remote Control's front cover. The display will turn red and read "SET TIME".



- 2 Press **New/Save** and **Delete** simultaneously. The display will change to read "SUN 12:00".

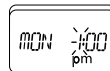


- 3 Press **+** to change the day.



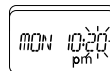
- 4 Press **➡** to navigate to the hour on the display.

- 5 Press **+** to change the hour. To select AM or PM, simply scroll past 12:00.

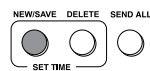


- 6 Press **➡** to navigate to the minute on the display.

- 7 Press **+** to change the minute. Hold **+** to scroll quickly.




- 8 Press **New/Save** to save. After the time has been set, it will flash three times to indicate the time has been saved. Close the Scheduler Remote's cover to verify that the correct time has been set.





## Setting Schedules


To schedule iRobot Roomba to clean:


- 1 Open the Scheduler Remote Control's front cover to enter Scheduler mode.



- 2 Press **New/Save** to begin setting a schedule.



- 3 Press **+** to select the day of the week.


- 4 Press **➡** to navigate to the hour field.
- 5 Press **+** to schedule the hour. To select AM or PM, simply scroll past 12:00.


- 6 Press **➡** to navigate to the minute field.
- 7 Press **+** to schedule the minute.


- 8 Press **➡** to navigate to the Once/Weekly field.
- 9 Press **+** to choose Once or Weekly. Choose Weekly if you want Roomba to clean on the same day and time every week.


- 10 Press **New/Save** once to save the schedule. The LCD will flash three times to indicate that the schedule has been set.



**⚠ Don't forget to send the schedule to both Roomba and the scheduling Virtual Walls. See pp. 17 – 18 for details.**



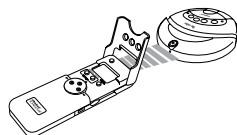
## Sending Schedules

After setting a cleaning time, you need to send the schedule to Roomba and the scheduling Virtual Walls.

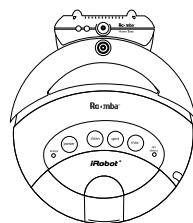
### To send a schedule to your Roomba:

**1** Power on Roomba with the Power button.

**2** Open the Scheduler Remote Control's front cover, point the remote at Roomba and press **Send All**. The display will flash to indicate the remote is sending the schedule. Roomba will play a song to indicate the schedule is received and the Status light will begin blinking.



**3** Make sure Roomba is on the Home Base or in the center of the area you want to clean. Roomba will clean at the time you have scheduled.



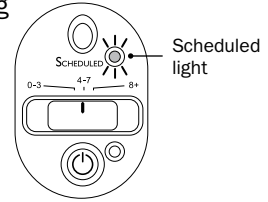
Roomba's Status light will blink amber to indicate that Roomba is scheduled to clean.

**⚠ To accept a schedule, Roomba must either be at least eight feet from the Home Base or charging on the Home Base and Roomba's power must be on. iRobot Scheduler, Virtual Walls, and Home Base all operate using invisible infrared beams. If used in the same area, Roomba may see multiple infrared signals and not respond to commands. Make sure all Virtual Walls are turned off when using Scheduler.**

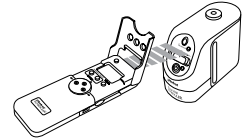
## Sending Schedules

To send a schedule to the scheduling Virtual Walls:

- 1 Press and hold the power button on each scheduling Virtual Wall until the **Scheduled** light turns on.



- 2 Point the Scheduler remote at each scheduling Virtual Wall and press **Send All** to send the schedule. The display will flash, indicating that the remote is sending the schedule to the Virtual Wall.

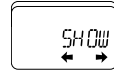


- 3 The Virtual Wall's **Scheduled** light will blink to confirm that it is scheduled to automatically turn on at the time you programmed.

**TIP:** You can clear the schedule from the scheduling Virtual Wall and Roomba by removing their batteries, or by deleting all cleaning times from the remote and re-sending the cleared schedule to the scheduling Virtual Walls.

## Changing Schedules

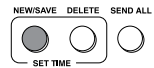
- 1 Open the Scheduler Remote's cover. The display should read "SHOW ◀ ▶." If it reads "Set Time", see p. 15.



- 2 Scroll through the programmed schedules using ◀ or ▶ until you find the schedule you want to change.

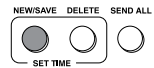


- 3 Press **New/Save** when the remote displays the schedule you wish to change.

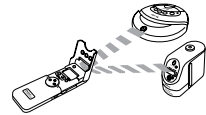


- 4 Scroll to the field you wish to change using the ◀ and ▶ buttons and use the + to change the time, day, or frequency.

- 5 Press **New/Save** to save the new time.

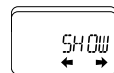


- 6 Send the updated schedule to Roomba and the scheduling Virtual Walls. See pp. 17 – 18 for details.



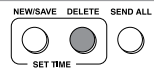
## Deleting Schedules

- 1 Open the Scheduler Remote's cover. The display should read "SHOW ◀ ▶." If it reads "Set Time", see p. 15.

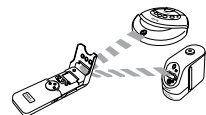


- 2 Scroll through the schedules using ◀ or ▶ until the schedule you wish to delete is displayed.

- 3 Press **Delete** to clear the schedule.



- 4 Send the deleted schedule to Roomba and the scheduling Virtual Walls. See pp. 17 – 18 for details.



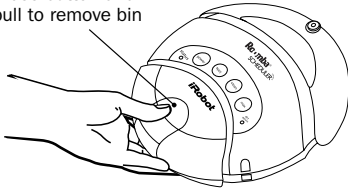
**TIP:** You can clear the schedule from the scheduling Virtual Walls and from Roomba by removing and replacing the batteries.

# Maintenance

To keep Roomba running at peak performance, it is recommended that you perform the following maintenance tasks every three uses:

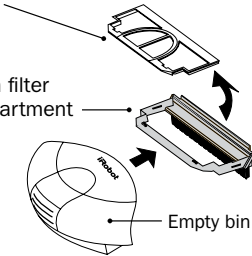
- 1** Remove and empty Roomba's bin

Press button and pull to remove bin



- 2** Clean Roomba's filter compartment

**A.** Clean or replace filter\*

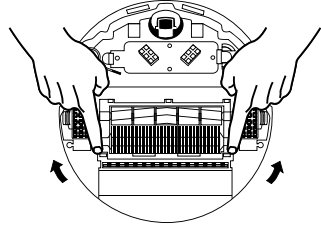


**B.** Clean filter compartment

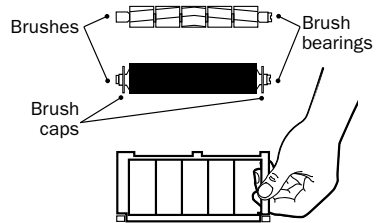
\*Replace filter every 2 months

- 3** Clean Roomba's brushes

**A.** Remove brush guard by pulling both yellow tabs



**B.** Remove and clean Roomba's brushes. Remove brush caps and use scissors to cut any hair wrapped around the brush. Use the Roomba cleaning tool to comb hair from brush.



**C.** Remove and clean hair and dirt from Roomba's brush bearings.

Visit [www.irobot.com/usetips](http://www.irobot.com/usetips) for instructional photos

**TIP:** Bin emptying and brush cleaning should be done after every 3-5 cleaning cycles depending on the amount of hair, dirt, and debris in your environment.

**TIP:** If you notice Roomba picking up less debris from your floor, empty the bin and clean the brushes.

**⚠** Excessive build up of hair in Roomba's brushes and bearings can permanently damage Roomba. Inspect brush bearings regularly.

**⚠** Do not attempt to run Roomba without the bearings. If you misplace Roomba's brush bearings, contact iRobot Customer Care for replacement bearings.

# Troubleshooting

Roomba will tell you when something is wrong with a two-tone “uh-oh” sound followed by beeping. Refer to the chart below to resolve Roomba’s problem. If the problem is not resolved, visit [www.irobot.com/support](http://www.irobot.com/support).

Number of beeps after “uh-oh”	Likely cause	What to do
No beeps	A wheel is stuck or is not touching the ground	Pick up the robot, place it down securely on the floor and touch the clean button to restart the cycle.
1	The main brushes cannot turn	Turn over Roomba and remove the brush guard by pushing the two yellow tabs. Remove the brushes, clear any obstructions, and replace them again. (See page 20)
2	The side brush cannot turn	Turn over Roomba. Look to see if something is wrapped around the side brush. Remove the side brush with a screw driver and check for string or hair that may be wrapped around it.
3	The vacuum cannot run	Remove and empty Roomba’s bin. (See page 20)
4	A wheel motor cannot run	Your Roomba may be stuck or something may be wrapped around a wheel. Look for something wrapped around the wheels. Push them in and out and make sure they turn easily.
5	The cliff sensors have failed or are blocked	Turn over Roomba and clear any debris that might be caught underneath the front bumper in the cliff sensors. You can also use compressed air to clean them out.
6	Wheel obstruction or robot attempting to drive over an obstacle	Turn over Roomba and remove any obstructions that prevent the wheels from seating all the way up into Roomba’s body. Also, remove any obstacles that Roomba could drive over.
7 or 8	Not applicable	Roomba’s beep codes do not include 7 or 8 beeps. If you are getting an error with 7 or 8 beeps, try counting again or contact iRobot Customer Care.
9	Sensor error	Please contact iRobot Customer Care.
10	Roomba is stuck	Pick up Roomba and start it again somewhere else. Use a virtual wall or other barrier to keep Roomba away from the place it got stuck.

## Miscellaneous Troubleshooting

Problem	Likely cause	What to do
Roomba’s Power light will not illuminate	Battery not seated correctly	Remove Roomba’s battery by pushing the side clips and re-insert the battery making sure you hear an audible click.
Roomba is not picking up debris	Bin is full	Empty the bin and clean Roomba’s brushes. (See page 20)
Roomba does not charge	Power supply not plugged in	Ensure that the power supply is correctly connected to the wall, to the Home Base, and to Roomba. Roomba’s charger and Home Base will each illuminate a solid green light when plugged into a power source.

**TIP: If you notice that Roomba is sitting on its Home Base and the Power light is not illuminated, then clean the charging contacts on the bottom of the robot.**

# iRobot Customer Care

If you have questions or comments about Roomba, please contact iRobot before contacting a retailer.

Please visit our web site at **www.irobot.com** for support tips, frequently asked questions, or information about accessories and other iRobot products. We would like to hear from you.

Should you still need assistance:

- Visit the iRobot support web site at **www.irobot.com/support**
- Call our customer care representatives at **877.855.8593**

## **iRobot Customer Care Hours:**

- Monday – Friday 9AM – 7PM Eastern Time
- Saturday 9AM – 6PM Eastern Time

# Important Safety Instructions

**⚠ CAUTION: DO NOT EXPOSE THE ELECTRONICS OF ROOMBA, ITS BATTERY OR THE CHARGER. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. CHARGE USING STANDARD U.S. (120V AC) OUTLET ONLY.**

Always exercise caution when operating your Roomba. To reduce the risk of injury or damage, keep these safety precautions in mind when setting up, using and maintaining your Roomba:

## GENERAL SAFETY INSTRUCTIONS

- Read all safety and operating instructions before operating Roomba.
- Retain the safety and operating instructions for future reference.
- Heed all warnings on Roomba, battery, charger and in owner's manual.
- Follow all operating and use instructions.
- Refer all non-routine servicing to iRobot.

## ROOMBA USE RESTRICTIONS

- Roomba is for indoor use only.
- Roomba is not recommended for shag, high pile carpet, or tassels.
- Roomba is not a toy. Do not sit or stand on this device. Small children and pets should be supervised when Roomba is cleaning.
- Clean with a dry cloth only. Do not pour or spray water onto Roomba.
- Do not use this device to pick up anything that is burning or smoking.
- Do not use this device to pick up spills of bleach, paint, or other chemicals, or anything wet.
- Before using this device, pick up objects like clothing, loose papers, pull cords for blinds or curtains, power cords, and any fragile objects. If the device passes over a power cord and drags it, there is a chance an object could tumble off a table or shelf.
- If the room to be cleaned contains a balcony, a physical barrier should be used to prevent access to the balcony and ensure safe operation.
- Always remove the battery before long-term storage or transportation.

## ROOMBA BATTERY AND CHARGING

- Charge using a standard U.S. (120V AC) outlet only. Product may not be used with any type of power converter. Use of other power converters will immediately void the warranty.
- Use only the charger supplied by the manufacturer to charge this device.
- Do not use a charger with a damaged cord or plug.
- Charge indoors only.
- Roomba's power supply may be protected with a surge protector in the event of severe electrical storms.
- Never handle chargers with wet hands.
- Always disconnect Roomba from the charger before cleaning.

Register your  
**iRobot® Roomba®** today.  
**SAVE 15%**  
**on all accessories.\***



**iRobot Scheduler**

Add scheduling to your Roomba.

.....\$59<sup>99</sup>

**Virtual Wall**

Keep Roomba cleaning where you want it.

.....\$29<sup>99</sup>

**Standard Wall Mount**

Convenient storage for Roomba and its remote control.

.....\$19<sup>99</sup>



**Self-Charging Home Base**

Roomba returns to the Home Base to recharge automatically.

.....\$59<sup>99</sup>



**Replenishment Kit**

New main brush and flexible brush plus 3 filters.

.....\$29<sup>99</sup>



**Replacement Filter Pack**

3 reusable filters keep Roomba cleaning at peak performance.

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Get iRobot accessories at:  
**800.727.9077** or visit **store.irobot.com**

*\*See registration card for details. Pricing and availability subject to change. Shipping and handling not included.*



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 US Pat. Nos. D510,066 | 6,883,201 | 6,690,134 | 6,809,490 | 6,594,844. Other patents pending.