

***iRobot***<sup>®</sup>

**Roomba**<sup>®</sup>

Vacuum Cleaning Robot

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**Owner's Manual**

## Dear Roomba owner,

Thank you for choosing a new generation iRobot Roomba vacuum cleaning robot. You're joining a very special community of people - 7.5 million worldwide and growing - who are discovering just how useful, convenient and straightforward having a home robot is. In fact, owners tend to like their Roomba so much they've even given them nicknames.

We're passionate about our robots too. Not surprisingly, given that making robots is all we've ever done in the 20 odd years of our existence.

Now, you're probably itching to give your Roomba a go, but it's worth having a quick read of this manual first. That way it will be even easier to use and save you even more time.

I hope you will have many enjoyable experiences with your Roomba and on behalf of all the team thank you for choosing iRobot.

Best Wishes



Colin Angle  
Chairman, CEO and Co-Founder, iRobot Corporation

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## Looking after your iRobot Roomba

### Every little bit helps

For best results, use it often! After every use, empty the bin and clean the filter. The brushes do a lot of the hard work, so just like a hair brush, every week or so it's best to take them out and remove the hair and fluff that collect around these, and under the brush bearings (see diagrams in Essential Maintenance section).

Extend the battery life by recharging it as soon as possible and storing your Roomba plugged in. For long-term storage, remove and store the battery in a cool, dry place.

**\*Safety first\*** As your Roomba contains electrical parts, don't submerge or spray it in water – clean with a dry cloth only. Before using your product for the first time please refer to the important safety instructions towards the end of this manual.

## How to get started

Before you first use your Roomba, turn it upside down and remove the battery pull tab. Use the Home Base™ to charge the battery overnight. *Charge the Roomba at least 16 hours when using it for the first time.*

### Preparing your cleaning area

Your Roomba is pretty smart in getting around, but it does need a little help. Carpet tassels aren't a problem, but clear away any clutter and loose cables. General dust, dirt and grime are what it's there for, but avoid anything wet, such as spillages.

### Setting Roomba up

First, set up the Home Base. To keep your Roomba on track, set up Virtual Wall® or Auto Virtual Wall, which block off areas.

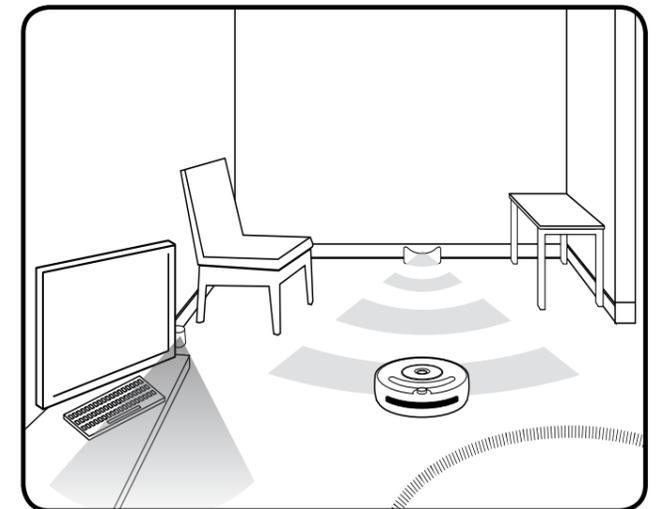
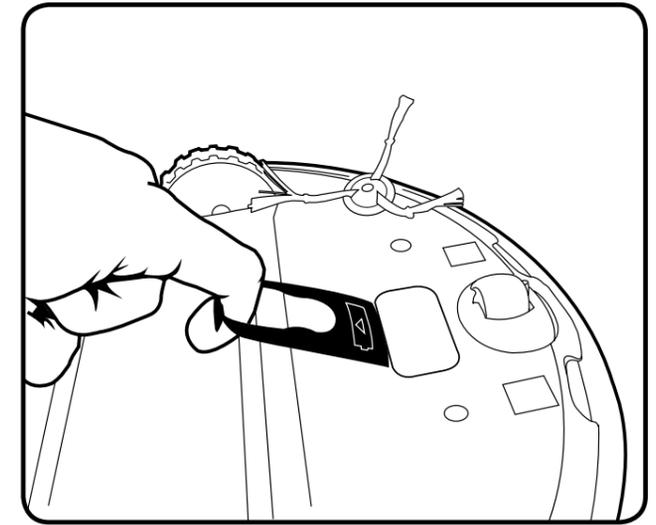
### Ready to Go!

If you have one, set up your Remote Control. Otherwise, just start up your Roomba manually:

- Press CLEAN once to turn it on. You'll hear a beep & the CLEAN button will light up.
- Press CLEAN again to start a cleaning cycle.
- When on the Home Base, simply press CLEAN
- To pause while cleaning, press CLEAN.
- To resume, press CLEAN again.
- To turn off, press and hold the CLEAN button until the lights turn off.

Then just walk away and let your Roomba get to work. Kids and pets tend to find Roomba fascinating, so make sure they realise it's not a toy or an intruder. They'll soon get used to it.

### Cleaning Modes and Pattern



Roomba uses iAdapt™ Responsive Cleaning Technology, an advanced, proprietary system of software and sensors. iAdapt allows Roomba to actively monitor the cleaning environment 64 times per second and respond with more than 40 different mobility behaviors to clean the room more thoroughly.

**Roomba models 600 and above have 2 cleaning modes you can select:**

**Clean Mode** (all models) – Roomba automatically calculates the room size and adjusts its cleaning time appropriately.

**Spot Mode** (all models) – Roomba will spiral approximately 1 meter in diameter and then back to where it started – an intense, localized clean for those quick fixes.

**Surfaces**

Your Roomba works on pretty much anything – wood, carpet, tile, vinyl and lino, adjusting to different floor types. It automatically senses stairs and other drops. It might stall when confronting round edges and might slide over particularly slippery surfaces. Very dark floors may impede its sensors. Roomba is not designed for use out-doors.

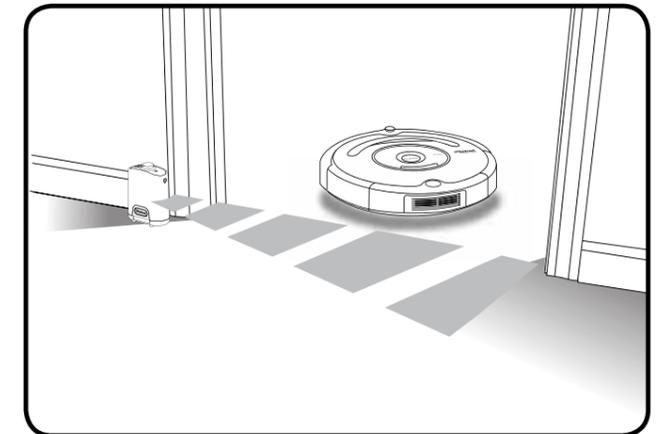
**Anti-tangle system**

A Roomba won't get caught up in tassels or fringes. If it senses a tangle, it automatically stops its main brushes and reverses to free itself. It may make a clicking noise while doing this.

**Virtual Wall®** Optional accessory for all models

Virtual Walls create an invisible barrier that your Roomba won't cross. That makes it easy to confine it to a particular room or area, and prevent it from getting too close to anything delicate or dangerous.

- Each Virtual Wall needs two C alkaline batteries (not included).
- You can set the Virtual Walls to block an opening up to two metres. It creates a cone shape barrier, so the beam gradually gets wider.
- For best results, place the Virtual Wall on the outside of the doorway you want to block. Point the arrows on the top towards the opening.



**Manual Virtual Wall**

- Turn on a Manual Virtual Wall by hand at the beginning of the cleaning cycle. It will shut off after 135 minutes. If the power light blinks green, it means you'll need new batteries soon.

**Auto Virtual Wall**

When an Auto Virtual Wall is set to "AUTO" mode, the power light continuously blinks to indicate it is on. When battery levels are low, the Virtual Wall continuously blinks twice to indicate that it needs new batteries. When in AUTO mode, the batteries should last for around six months. To save on batteries, just switch it to OFF.



## Home Base™

Position the Home Base on a hard, level surface against a wall. Make sure it's at least four feet from any stairs and that your Roomba has a clear path to reach it.

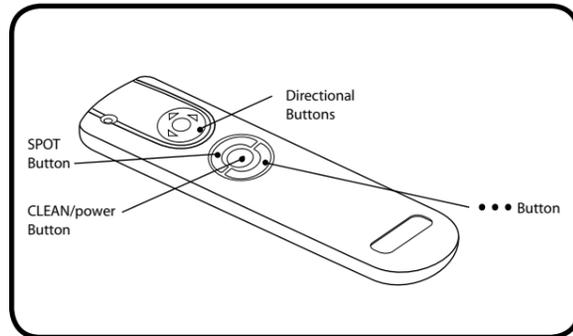
When Roomba has finished cleaning, it will return to its Home Base to charge. The light on the Home Base stops blinking and turns solid green when Roomba makes a good connection. Then, Roomba's CLEAN button will pulse amber to show it is charging, and will turn solid green when Roomba is fully charged and ready to clean again!

## Remote Control

Optional accessory for all Roomba models

You use this just like your TV remote, pointing and clicking it to turn your Roomba on and off, steer it, and control the SPOT and ... functions.

- First, install 2 AA batteries (not included).
- If you use it near a Virtual Wall or the Home Base, it may get confused and not work.
- If it goes missing, try looking down the side of or under the sofa. (Well, that usually works for the TV remote.)



## Battery storage and charging

Your Roomba is powered by a rechargeable battery. Before using your Roomba for the first time, you'll need to charge the battery overnight.

- Make sure your Roomba is fully charged before each cleaning cycle.
- **For maximum battery life**, always store your Roomba plugged in.
- When your Roomba is on the Home Base, make sure the Home Base power light is on.
- If you return your Roomba to the Home Base / power supply after leaving it off for a long time, it will start a special 16-hour Refresh Charge and the CLEAN button light will pulse quickly. If possible, don't interrupt the Refresh Charge.
- For long-term storage, fully charge battery, remove, and store it in a cool, dry place. When plugged in or on the Home Base, you should always leave the battery inside.

## Charging lights

The CLEAN button light indicates the battery is charging.

CLEAN button light	What it means
Solid red	Battery empty
Amber pulse	Charging
Solid green	Fully charged
Quick amber pulse	16-hour refresh charge

## How to remove your battery (models 600 and above)

If you won't be using your Roomba for an extended period, we recommend that you remove the battery. To access the battery, turn Roomba over and remove the side brush screw along with the 4 screws that hold Roomba's bottom cover in place. Or please visit [global.irobot.com](http://global.irobot.com) for further instructions or to download a detailed user manual.

## **Scheduling your Roomba** Models 650 and above.

This lets you tell your Roomba exactly when to clean, even when you're away from home.

### **Setting the time**

1. Press and hold CLOCK.
2. While holding CLOCK, use the DAY, HOUR and MINUTE buttons to set the time.
3. Release CLOCK. Your Roomba will beep to indicate that the time has been set.

### **Setting 12 / 24 hr**

1. To switch between the two views, press and hold the DAY and MINUTE buttons simultaneously for 3 seconds until Roomba beeps and the clock briefly illuminates, indicating the clock format has been switched.

Roomba's clock will switch back to the default 12 hour (AM/PM) format when Roomba's battery is disconnected or significantly discharged.

### **Setting a schedule**

You can schedule your Roomba to clean once a day, up to seven times a week. You must set the time before setting a schedule.

1. Press and hold SCHEDULE.
2. When holding SCHEDULE, use the DAY, HOUR and MINUTE buttons to set the schedule.
3. Release SCHEDULE. Your Roomba will beep to indicate the schedule has been set.

### **Viewing a schedule**

1. Press and hold SCHEDULE.
2. While holding SCHEDULE, press the DAY button to look through the scheduled cleaning times.
3. Release SCHEDULE.

### **Deleting a schedule**

1. Press and hold SCHEDULE.
2. While holding SCHEDULE, press the DAY button to look through the scheduled cleaning times.
3. When your Roomba is displaying the scheduled cleaning time you want to delete, press and hold DAY to delete it. Your Roomba will beep to show it's been deleted.
4. Release SCHEDULE.

### **Changing a schedule**

1. Press and hold SCHEDULE.
2. While holding SCHEDULE, press the DAY button to look through the scheduled cleaning times.
3. When your Roomba is displaying the scheduled cleaning time you want to change, press the HOUR and MINUTE buttons to make the change.
4. Release SCHEDULE.

## **A little maintenance goes a long way**

To keep your Roomba working perfectly, it's a good idea to do a little maintenance regularly. In particular, please note the following:

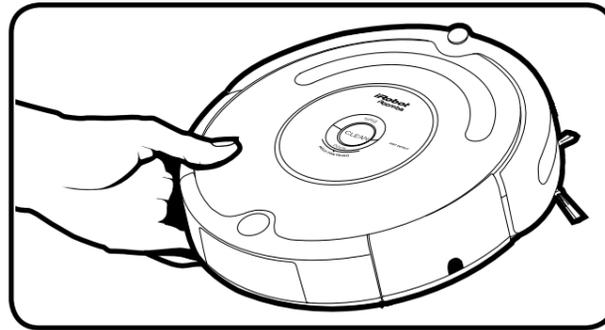
- Look for the yellow and green parts – these are designed to be removed and cleaned.
- You should empty the bin and clean the brushes after each use, if possible.
- Excessive hair build-up could permanently damage your Roomba or your floor, so clean the brush bearings and brush caps regularly.

For more information, and to order accessories, please visit [global.irobot.com](http://global.irobot.com)

## Essential maintenance

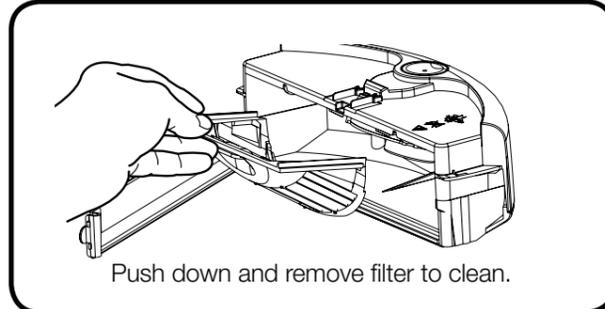
### Emptying the bin

You should do this after each use.



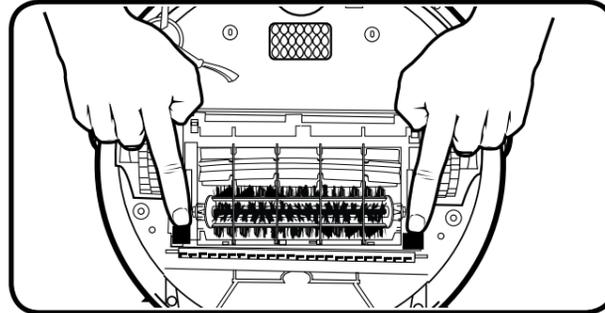
### Cleaning the filter

Regular cleaning is important and you should replace the filter after two months of regular use.

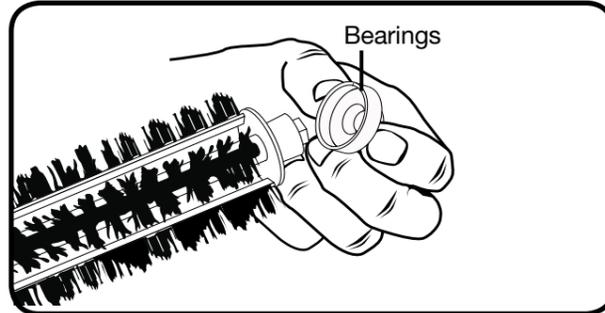


### Cleaning the brushes and associated parts

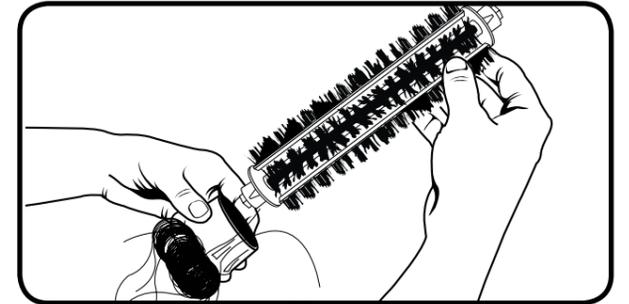
1. Remove brush guard by lifting both yellow tabs.



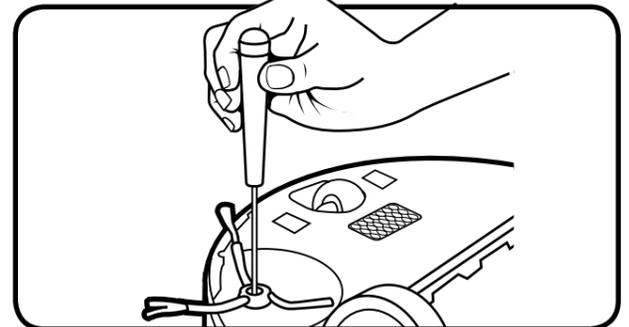
2. Remove and clean the brushes, brush caps and brush bearings.



3. Use the included cleaning tool to remove hair easily from the bristle brush by pulling it over the brush.

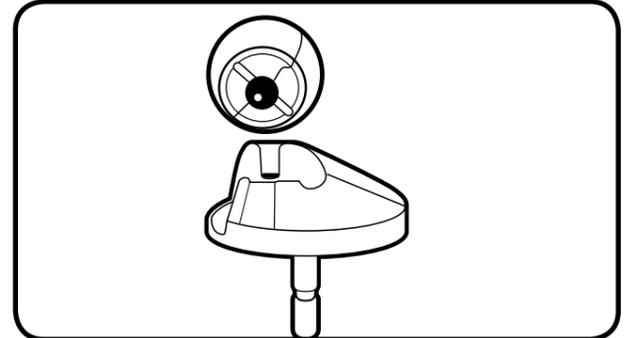


4. To clean the side brush, use a small Phillips screwdriver to remove the screw from the centre. Remove the brush, clean, reinstall.



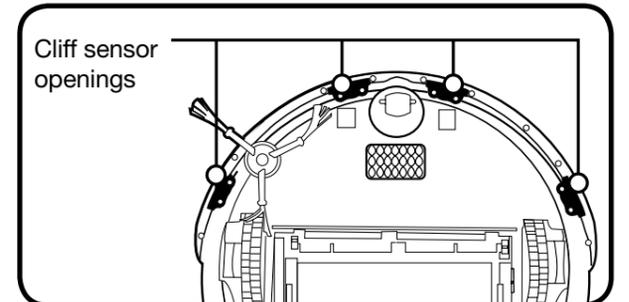
### Cleaning the front wheel

1. Pull firmly on the front wheel to remove it.
2. Remove any debris from inside the wheel cavity.
3. Remove the wheel from its housing and wipe clean. Pull firmly to remove the axle and clear any hair wrapped round it.
4. Reinstall all parts when finished. Make sure the wheel clicks right back into place.



### Cleaning the cliff sensors

Simply wipe all four cliff sensor openings with a clean, dry cloth.



### Troubleshooting

Occasionally, something can go wrong. But don't worry – there's an early warning system.

Your Roomba will go "uh-oh" and warn you what the problem is. The troubleshooting light will also blink. To repeat an error message, just press CLEAN.

For more information you can download a detailed user manual at [global.irobot.com](http://global.irobot.com) or by contacting your local distributor, whose contact details can also be found on this page.

## Problems while running

Your Roomba blinks...	Your Roomba says...	Likely cause	What to do
<b>1 blink every 2 seconds</b>	Error 1. Move Roomba to a new location then press CLEAN to restart.	Your Roomba is stuck with a wheel hanging down.	Ensure your Roomba's wheels are firmly on the floor. Start in a new location.
	Error 2. Open Roomba's brush cage and clean brushes.	Your Roomba's main brushes can't turn.	Remove and clean your Roomba's brushes.
	Error 5. Spin Roomba's side wheels to clean.	Your Roomba's side wheel is stuck.	Clean your Roomba's side wheels. Push them in and out and check that they both turn freely. Start in a new location.
	Error 6. Move Roomba to a new location then press CLEAN to restart.	Your Roomba's cliff sensors are dirty or your Roomba is hanging over a drop.	Wipe your Roomba's cliff sensors with a dry cloth. Start in a new location.
	Error 7. Spin Roomba's side wheels to clean.	Your Roomba's side wheel is stuck.	Clean your Roomba's side wheels of hair and debris. Push them in and out and check that they both turn freely. Start in a new location.
	Error 9. Tap Roomba's bumper to clean.	Your Roomba's bumper is compressed or the bumper sensor is dirty.	Briskly tap your Roomba's bumper several times to dislodge any debris that may be trapped underneath.
	Error 10. Spin Roomba's side wheels to clean.	Your Roomba's side wheel is stuck or its bumper isn't detecting obstacles.	If your Roomba is circling in one place, clean side wheels. Push them in and out and check that they both turn. If it's not circling in one place, Roomba may be in a very large room. Use a Virtual Wall to create a smaller cleaning area.
	Please charge Roomba.	Your Roomba's battery is flat.	Plug your Roomba into the charger or place it on the Home Base to charge.

## Problems while charging

Your Roomba blinks...	Your Roomba displays... (models 6 50+)	Your Roomba says...	Likely cause	What to do
<b>1 blink</b>	Err 1	Charging error 1	Your Roomba's battery isn't connected	Check that you removed pull-tab from the battery. Remove the bottom cover of your Roomba to remove & reinstall battery.
<b>2 blinks</b>	Err 2	Charging error 2	Your Roomba has a charging error	Let your Roomba cool down for at least an hour & try charging again.
<b>3 blinks</b>	Err 3	Charging error 3	Your Roomba has a charging error	Reset Roomba's software and try charging again.
<b>5 blinks</b>	Err 5	Charging error 5	Your Roomba has a charging error	Reset Roomba's software and try charging again.
<b>6 blinks</b>	Err 6	Charging error 6	Your Roomba has a charging error	Let your Roomba cool down for at least an hour & try charging again.
<b>7 blinks</b>	Err 7	Charging error 7	Your Roomba's battery isn't cooling	Let your Roomba cool down for at least an hour & try charging again.

### Language selection mode

Your Roomba can provide troubleshooting messages in English, French, German, Spanish, Italian, Dutch, Danish, Swedish, Norwegian, Finnish, Polish, Russian, Portuguese, Japanese, Korean and Chinese. So if you've always wondered what "Tap Roomba's bumper to clean" is in Finnish, now's your chance to find out.

### Setting the language

The default language is English. To change this:

1. Turn off your Roomba.
2. Press and hold CLEAN until it beeps and says the current language.
3. Release CLEAN.
4. Now press CLEAN repeatedly until you hear the language you want.
5. Press and hold CLEAN to turn off your Roomba and confirm language choice.



## How to reset the software

Simultaneously hold down the two buttons above and below CLEAN for ten seconds. This will clear all scheduled cleaning times, reset the clock and may resolve some software issues.

## Frequently asked questions

### Why does my Roomba's side brush occasionally spin backwards?

When caught on items such as carpet tassels or wires, the side brush may spin slowly or even backwards to free itself. This may also occur on deep-pile carpets. If it does this at other times, you should clean the brush.

### Why does my Roomba occasionally make a thumping sound?

When Roomba's brushes encounter items such as carpet tassels or wires, the brushes will briefly reverse direction to get free. This makes a thumping sound. If you hear a thumping sound at any other time, you should clean the main brushes.

### Why doesn't my Roomba slow down as it approaches certain obstacles?

Your Roomba usually identifies obstacles quickly, allowing it to slow down and gently touch the obstacle with its bumper before changing direction. However, it may be less effective at sensing extremely dark surfaces, or objects under two inches wide. So stray bottle corks, toy bricks and pet mice are best kept well way.

## Important safety instructions

CAUTION: NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. CHARGE USING STANDARD EUROPEAN (220V-240V) OUTLET ONLY. Always be careful when using your Roomba. To reduce risk of injury or damage, keep these safety precautions in mind when setting up, using and maintaining your equipment.

### General

- Read all safety and operating instructions before operating Roomba.
- Retain the safety and operating instructions for future reference.
- Heed all warnings on Roomba, Battery, AC Adapter and in Owner's Manual.
- Follow all operating and use instructions.
- Do not attempt to service Roomba yourself. Refer all non-routine servicing to qualified service personnel.

### Roomba use

- Roomba is for indoor use only.
- Do not use Roomba on wet surfaces or where contact with or immersion in water is a possibility.
- Before using this appliance, 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 around, there is a chance an object could tumble off a table or shelf.
- Roomba is not a toy. Do not sit or stand on this device. Small children and pets should be supervised if Roomba is in use.
- Keep loose clothing, hair, fingers, feet and all body parts away from brushes & moving parts.
- Do not use this device to pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use this device to pick up fluids.

- Do not use this device without the particle bin in place.
- 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 pack and charging

- Operate your Roomba from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local appliance dealer or power company.
- Charge using standard EUROPEAN (220V-240V AC) outlet only. Product may not be used with any other type of power converter. Any such use will immediately void warranty.
- Use only the charger AC adapter supplied by the manufacturer to recharge this device.
- Do not use a charger AC adapter with a damaged cord or plug.
- Charge indoors only.
- Never handle charger AC adapter with wet hands.
- Remove the battery from the appliance before it is disposed of or recycled. Do not dispose of the battery pack along with household waste. Please contact your local waste disposal agency for the address of the nearest battery deposit site.

## What if I need further help or accessories?

### Visit [global.irobot.com](http://global.irobot.com) to:

- Order accessories for your robot
- Learn hints and tips to improve the performance of your robot
- Get answers to questions
- Download a detailed product manual
- Contact your local iRobot distributor



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## Declaration of conformity

Roomba and Robotic Vacuum Cleaner and Accessories

Manufacturer: iRobot Corporation, 8 Crosby Drive, Bedford, MA 01730, USA

Declares that Roomba and Robotic Vacuum Cleaner, along with Model 11296 and 11267 Battery Chargers and the Home Base, conform to the requirements of:

Low Voltage Directive 73/23/EEC as amended by 93/68/EEC and EMC Directive 89/336/EEC as amended by 92/31/EEC.

It is further declared that the Roomba and Robotic Vacuum Cleaner and Accessories conform to the following harmonised European standards:

Year of CE Marking: 2004

EN 60335-1:2002 + A11:2004

Household and Similar Electrical Appliances - Safety Part 1 - General Requirements

EN 60335-2-2:2003

Household and Similar Electrical Appliances - Safety Part 2 - Particular Requirements for Vacuum Cleaners and Water-Suction Cleaning Appliances

EN 60335-2-29:2002

Household and Similar Electrical Appliances - Part 2-29 - Particular Requirements for

Battery Chargers

EN 55014-1:2000 + A1:2001 + A2:2002

Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -- Part 1: Emission

EN 55014-2:1997 + A2:2002

Electromagnetic compatibility - Requirements for household appliances, electric tools

and similar apparatus -- Part 2: Immunity - Product family standard

Low Voltage tests and EMC tests have been conducted by:

TUV Rheinland of North America

## ***iRobot***

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U.S. Pat. Nos. D556,961 | 6,594,844 | 6,690,134 | 6,809,490 | 6,883,201 | 6,956,348 | 7,155,308 | 7,173,391 | 7,196,487 | 7,288,912 | 7,332,890 | 7,388,343 | 7,429,843 | 7,430,455 | 7,441,298 | 7,448,113 | 7,459,871 | 7,567,052 | 7,571,511 | 7,579,803 | 7,636,982 | 7,663,333 | 8,087,117. Additional patents pending.