



iRobot j517020 Getting Started Instruction Manual

[Home](#) » [iRobot](#) » iRobot j517020 Getting Started Instruction Manual 

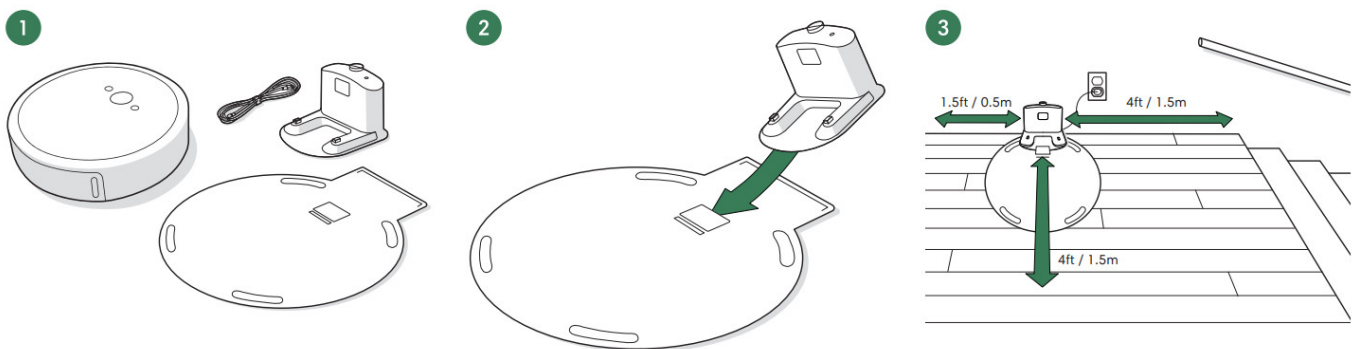
iRobot®
Roomba Comba™
j5 Owner's Guide



Contents

- 1 Getting started
- 2 Safety Information
- 3 About Your Roomba® Robot Vacuum
- 4 About Your Roomba Combo™ Bin
- 5 Using Your Roomba® Robot Vacuum
- 6 Care and Maintenance
- 7 Regulatory Information
- 8 iRobot Customer Care
- 9 Documents / Resources
- 9.1 References

Getting started



1. Get ready

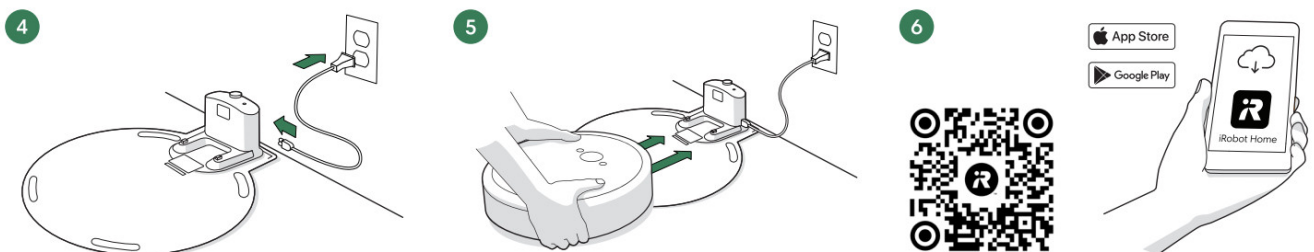
To start, you'll need your robot, Home Base charging station, drip tray, and power cord.

2. Install the Drip Tray

Position your drip tray on a flat surface. Slide the front of your Home Base under the clip at the center of the drip tray.

3. Position the Drip Tray & Home Base

Place drip tray and charging station on hard surface flooring, near an outlet, in an area with good Wi-Fi coverage. Keep the area around the charging station free of clutter.



4. Plug in the charging station

Plug the power cord into the charging station, then into the wall. Wrap the cord back so it won't get in the way of the robot as it comes and goes.

5. Wake up Roomba®

Place your robot on the charging station by lining up the metal charging contacts. After a few minutes, a sound will let you know it's awake.

6. Download the iRobot Home App

Scan the code with the camera on your mobile device (or find the iRobot Home App in your app store).
Complete setup in the app to allow your robot to identify and avoid obstacles in real time.


If you need further assistance, visit about.irobot.com/manual#comboi5

Safety Information


Important Safety Information

This owner's guide includes information for Regulatory Model(s): RVE-Y1, RVE-Y2, ADI-N1, Battery Model(s): ABL-F, ABL-D2Ax, ABL-D2Bx (x = 1 or 2)


SAVE THESE INSTRUCTIONS














 **WARNING:** When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS

 **WARNING:** To reduce the risk of injury or damage, read and follow the safety precautions when setting up, using, and maintaining your robot.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

 This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

	Risk of electric shock		Rated power input, d.c.
	Risk of fire		Rated power input, a.c.
	Caution		Read operator's manual
	Class II equipment		Keep out of reach of children
	For indoor use only		General symbol for recycling
	Class III equipment		Separate Supply Unit
	Rated power output, d.c.		

WARNING: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE: Indicates a hazardous situation that, if not avoided, could result in property damage.

GENERAL

 **WARNING**   

- Your robot comes with a region-approved power supply cord and is designed to be plugged into a standard household AC power outlet only.

Do not use any other power supply cord. For replacement cords, please contact Customer Care to ensure proper selection of country-specific power supply cord.

- Do not open your robot or charging station other than instructed in the Owner's Guide. There are no user serviceable parts inside. Refer servicing to qualified service personnel.
- Risk of electric shock, use indoors in dry location only.
- Do not handle your robot or charging station with wet hands.
- Do not use unauthorised chargers. Use of an unauthorised charger could cause the battery to generate heat, smoke, catch fire or explode.
- Your robot is not a toy. Small children and pets should be supervised when your robot is operating.
- Do not sit or stand on your robot or charging station.
- Store and operate your robot in room-temperature environments only.
- If the room to be cleaned contains a balcony, a physical barrier should be used to prevent robot access to the balcony and ensure safe operation.
- If the room to be cleaned contains equipment, such as a stove, fan, portable heater, or humidifier, remove the equipment before operation. There is a risk of injury, accident or malfunction if the robot comes in contact with and pushes the equipment.
- Do not allow your robot or charging station to become wet.
- Be aware that floors may be slippery after wet cleaning with your robot.
- Clean cliff sensors for buildup.



- Do not operate the robot in areas with exposed electrical outlets in the floor.
- Do not use this device to pick up sharp objects, glass, or anything that is burning or smoking.
- Be aware that the robot moves on its own. Take care when walking in the area that the robot is operating in to avoid stepping on it.
- If the device passes over a power cord and drags it, there is a chance an object could be pulled off a table or shelf. Before using this device, pick up objects such as clothing, loose papers, pull cords for blinds or curtains, power cords and any fragile objects.

Extinguish candles. Shut off portable heaters.

- Perform the required maintenance as per the Owner's Guide to ensure safe operation of the robot and charging station.
- If the robot is operating on a floor with stairs, please remove any clutter from the top step.
- Do not flip the robot over with the Combo Bin installed.
- Perform the required maintenance as per the Owner's Guide to ensure safe operation of the robot and charging station.

NOTICE

- Do not place anything on top of your robot or charging station.
- Failure to maintain cleanliness of charger contacts could result in loss of ability for the robot to charge the battery.
- Before running your robot on hard floors, please test your robot on a small section of the hard floor to ensure

that it is compatible. Using your robot on a hard floor that is not compatible could result in damage to your floor. Contact your hard floor manufacturer with questions on compatibility.

- Before running your robot on carpets or rugs, ensure that the carpets or rugs are compatible with the dual multi-surface rubber brushes on your robot, otherwise known as beater bars. Using your robot on a carpet or rug that is not compatible could result in damage to your carpet or rug. Contact your carpet or rug manufacturer with questions on compatibility.

CHARGING STATION



- If appliance is not working as it should, has been dropped, damaged, left outdoors or dropped into water, return it to a service centre.
- Do not use a charging station with a damaged cord or plug. If the cord or plug is damaged, it must be replaced.
- Always disconnect your robot from the charging station before cleaning or maintaining it.
- Do not use the charging station as a step.
- Charge your robot only with the power supply provided. The provided power supply delivers safety extra-low voltage corresponding to the input marking on the robot which is required to maintain safe operation.
- To prevent the risk of your robot falling downstairs, ensure that the charging station is placed at least 4 feet (1.2 metres) away from stairs.
- Do not allow liquids to get on or into the charging station.

NOTICE

- Product may not be used with any type of power converter. Use of power converters will immediately void the warranty.
- If you live in an area prone to electrical storms, it is recommended that you use additional surge protection. Your charging station may be protected with a surge protector in the event of severe electrical storms.

CLEANING SOLUTION



- Household cleaning products are safe when used and stored according to the instructions on the label. Always be sure to read and follow the directions carefully.
- Only use authorised cleaning solutions found on [answers.irobot.com/s/ roomba-combo-cleanser](https://answers.irobot.com/s/roomba-combo-cleanser).
- For cleaning solution warnings, please refer to the outer box and solution bottle.



Keep away from children



Rinse hands after use



Keep away from eyes. If product gets into eyes rinse thoroughly with water

BATTERY



- Do not open, crush, heat above 176°F: 80°C or incinerate.
Follow the Owner's Guide instructions for proper use, maintenance, handling and disposal.
- Do not short-circuit the battery by allowing metal objects to contact battery terminals or immerse in liquid. Do not subject batteries to mechanical shock.
- Lithium ion batteries and products that contain lithium ion batteries are subject to stringent transportation regulations. If you need to post this product (with the battery included) for service, travel, or any other reason, you **MUST** refer to the Troubleshooting section of your manual or contact Customer Care for postage instructions.
- Periodically inspect the battery pack for any sign of damage or leakage. Do not charge damaged or leaking battery packs, do not allow the liquid to come in contact with skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice. Place the battery in a sealed plastic bag and recycle or dispose of safely according to local environmental regulations, or return it to your local authorised iRobot Service Centre for disposal.



- Battery usage by children should be supervised. Seek medical advice immediately if a cell or a battery has been swallowed.

NOTICE

- The battery pack must be removed from the robot before recycling or disposal.
- For best results, only use the Lithium Ion Battery that comes with the robot.
- Do not use non-rechargeable batteries. Use only the rechargeable battery supplied with the product. For replacement, purchase identical iRobot battery or contact iRobot Customer Care for alternative battery options.
- Always charge and remove the battery from your robot and accessories before long-term storage.

This symbol on the battery indicates that the battery must not be disposed of with unsorted common municipal waste. As the end-user, it is your responsibility to dispose of the end-of-life battery in your appliance in an environmentally sensitive manner as follows:

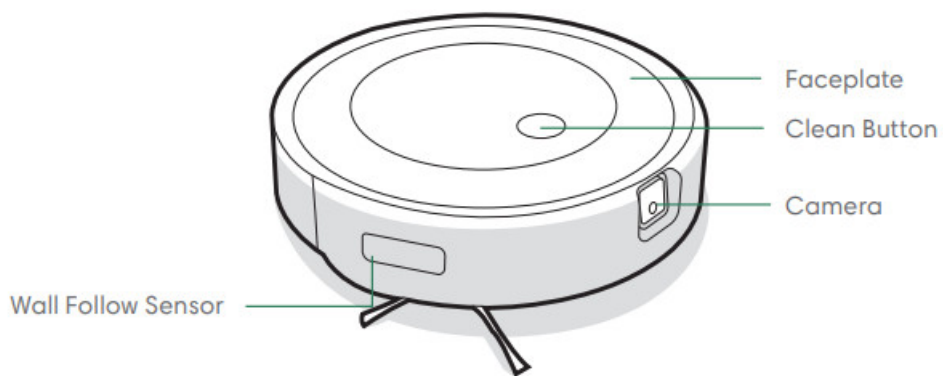
1. returning it to the distributor/dealer from whom you purchased the product; or
2. depositing it in a designated collection point.

The separate collection and recycling of end-of-life batteries at the time of disposal will help to conserve natural resources and to ensure that it is recycled in a manner that protects human health and the environment. For more information, please contact your local recycling office or the dealer from whom you originally purchased the product. Failure to properly dispose of end-of-life batteries may result in the negative potential effects on the environment and human health due to the substances in the batteries and accumulators.

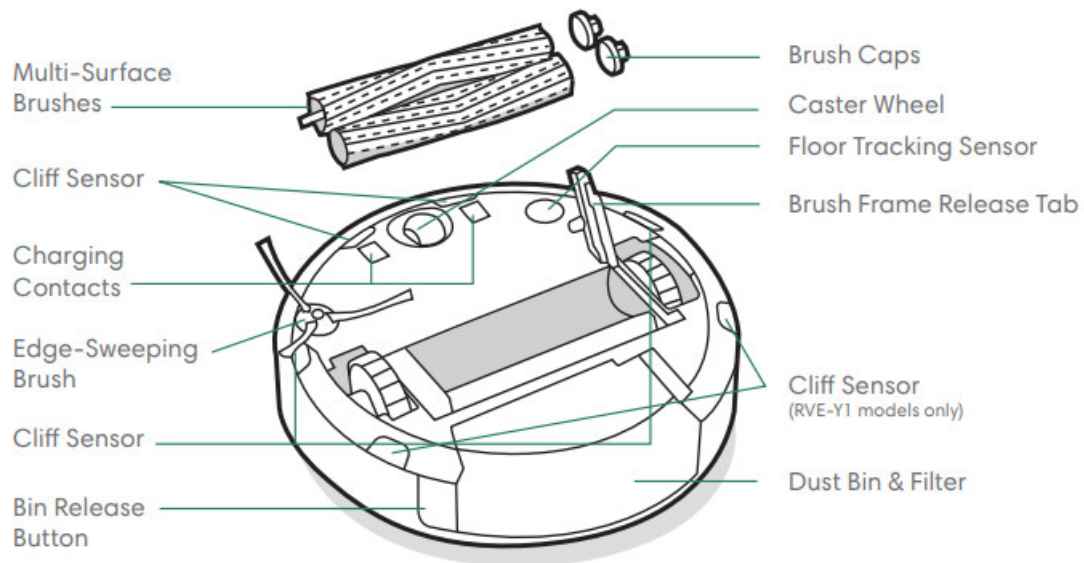
Information regarding the effects of problematic substances in the battery waste stream may be found at the following source: <http://ec.europa.eu/environment/waste/batteries/>

About Your Roomba® Robot Vacuum

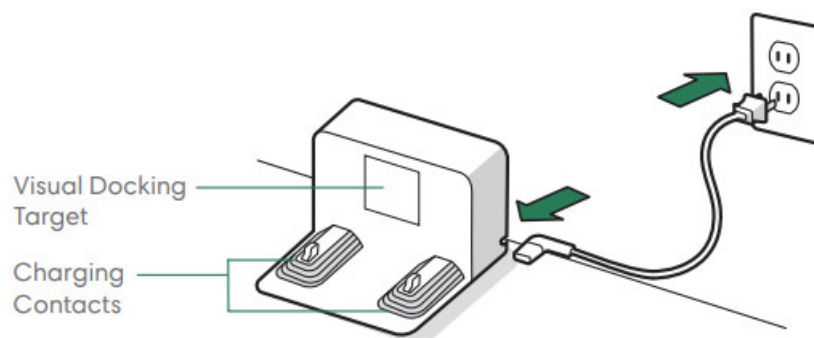
Top View



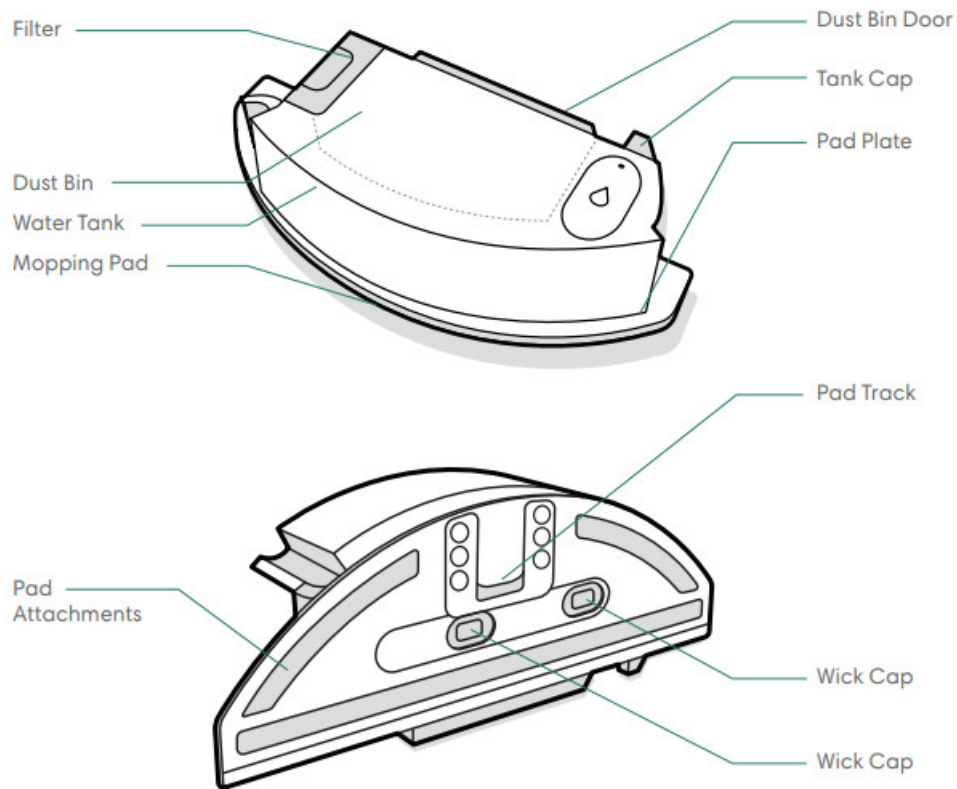
Bottom View



Home Base™ Charging Station

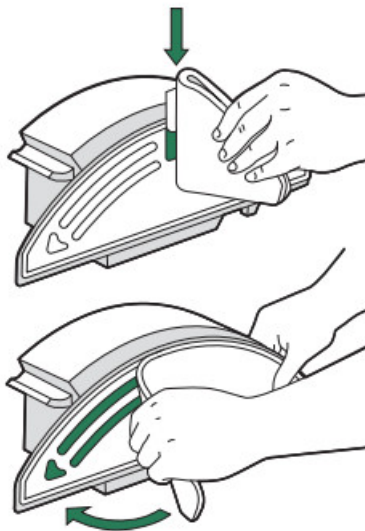


About Your Roomba Combo™ Bin



IMPORTANT: You must register your product in the iRobot Home App and complete a mapping run before using your Combo Bin. See the Activate your Combo Bin card for instructions.

1. **INSTALL THE MOPPING PAD** Slide the pad down over the track. Press the pad to the plate to attach.



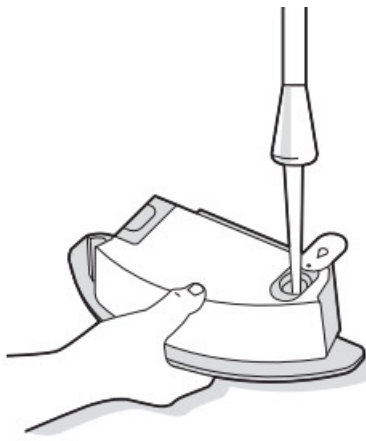
2. **FILL THE BIN**

Fill the Combo Bin with water.

You may also use a compatible cleaning solution. Compatible solutions are listed at this

answers.irobot.com/s/roombacombo-cleanser

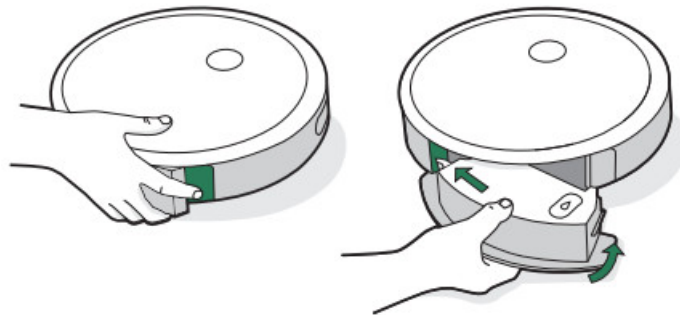
- 3.



SWAP THE BINS Remove the Dust Bin from the robot, and install the Combo Bin.



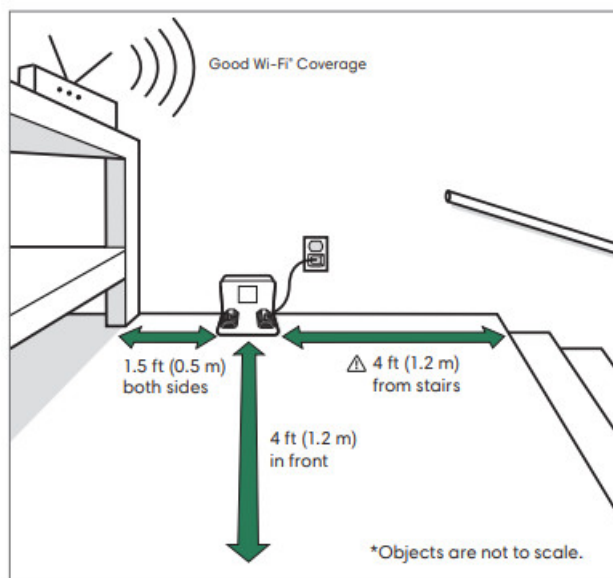
Important: Do not flip the robot over with the Combo Bin installed



Note: The product starts wicking as soon as water is put into the tank.

Using Your Roomba® Robot Vacuum

Positioning the Home Base™ Charging Station



Note: Do not place your Home Base™ in direct sunlight. Ensure the area around the dock is free of clutter to improve docking performance.



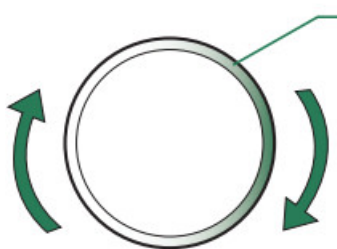
WARNING: To prevent the risk of your robot falling downstairs, ensure that the charging station is placed at least 4 feet (1.2 meters) away from stairs.

Download the iRobot Home App and Connect to Wifi

- Follow the step-by-step instructions to set up your Roomba.
- Set up PrecisionVision Navigation to avoid obstacles in real time.
- Set an automatic cleaning schedule and customise cleaning preferences.
- Create smart maps to tell your robot where and when to clean.



Charging



Light Ring Spiral While Charging

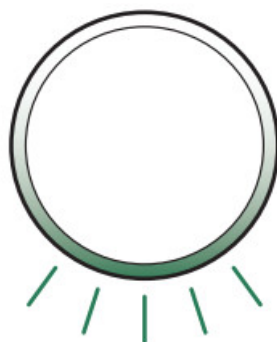
White Spiral: charging

Red Spiral: charging, low battery

A solid white light will indicate the battery charge percentage of your robot

- Place the robot on the charging station to activate the battery.

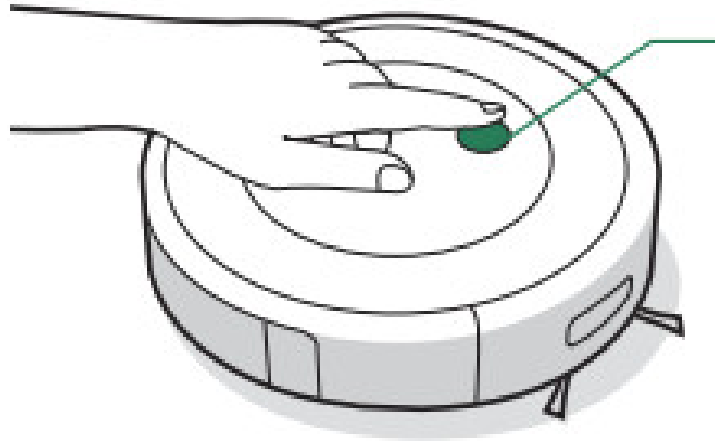
Note: Your robot comes with a partial charge, but we recommend that you charge the robot for 3 hours prior to starting the first cleaning job.



When your robot is fully charged, the light ring indicator will intermittently pulse white at the rear.

- The robot uses a small amount of power whenever it is on the charging station. You can put the robot in a further-reduced power state when not in use. To put your robot into reduced power standby mode, remove the dust bin and tap the clean button 5 times. To exit reduced power standby mode, place your robot on the charging station and tap the clean button. For more details on this Reduced Power Standby Mode, refer to the FAQ page on our website.
- For long-term storage, turn off the robot by removing it from the charging station and holding down the clean button for 3 seconds with one wheel off the ground. Store the robot in a cool, dry place.

Cleaning



Just press the clean button

Tap to Start/Pause/Resume Hold for 2-5 seconds to end a job

- Your robot will automatically explore and clean your home. It will return to the charging station at the end of a cleaning job and whenever it needs to recharge.



Remove excess clutter from floors before cleaning. Use your robot frequently to maintain well-conditioned floors.

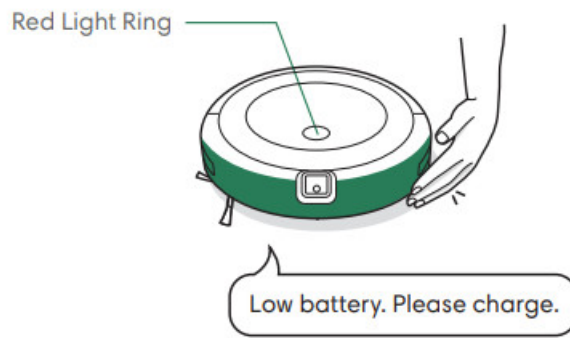
- To end a job and send the robot back to its charging station, hold the clean button down for 2-5 seconds. A blue light ring pattern will indicate that the robot is seeking the charging station.
- When your robot detects an especially dirty area, it will engage Dirt Detect™ mode, moving in a forward/backward motion to clean the area more thoroughly. The light ring indicator will flash blue.



When the robot senses its bin needs to be emptied, the light ring indicator will illuminate in a red sweeping motion toward the rear.

Troubleshooting

- Your robot will tell you something is wrong by playing an audio alert and turning the light ring indicator red. Press the clean button or tap the bumper for details. Check the iRobot Home App for further support.



- After 90 minutes of inactivity off the charging station, the robot will automatically end its cleaning job.
- To factory reset your robot, remove the dust bin and hold the clean button down for seven (7) seconds. A sound will let you know when the factory reset has been completed. Press the clean button down once more to confirm.

Battery Safety & Shipping

For best results, only use the iRobot Lithium Ion Battery that comes with your robot.

⚠ WARNING: Lithium ion batteries and products that contain lithium ion batteries are subject to stringent transportation regulations. If you need to ship this product for service, travel or any other reason, you **MUST** follow the below shipping instructions.

- Battery **MUST** be turned off before shipping.
- Turn off the battery by removing the robot from the charging station and holding down the clean button for 3 seconds with one wheel off the ground. All indicators will turn off.
- Package the robot securely for shipping.
- If you need further assistance, contact our Customer Care team or visit global.irobot.com.

Care and Maintenance

Care and Maintenance Instructions

To keep your robot running at peak performance, perform the procedures on the following pages.

There are additional instructional videos in the iRobot Home App. If you notice the robot picking up less debris from your floor, empty the bin, clean the filter, and clean the brushes.

Part	Care Frequency	Replacement Frequency*
Bin	Wash bin as needed	–
Filter	Clean once a week (twice a week if you have a pet). Do not wash.	Every 2 months
Full Bin Sensor	Clean every 2 weeks	–
Front Caster Wheel	Clean every 2 weeks	Every 12 months
Edge-Sweeping Brush and Multi-Surface Brushes	Clean once a month (twice a month if you have a pet)	Every 12 months
Sensors and Charging Contacts	Clean once a month	–
Camera Window	Clean and inspect once a month	After 30 washes
Mopping pad	Clean after a mopping job	After 30 washes
Wick cap	Replace if dirty or shows wear	–



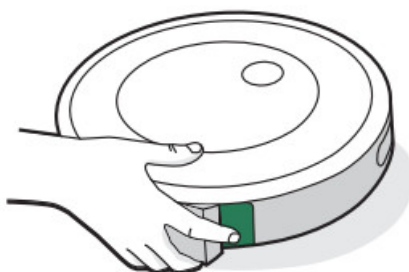
Note: iRobot manufactures various replacement parts and assemblies.

If you think you need a replacement part, please contact iRobot Customer Care for more information.

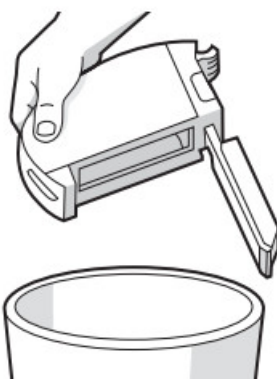
* Replacement frequency may vary. Parts should be replaced if visible wear appears.

Emptying the Bin

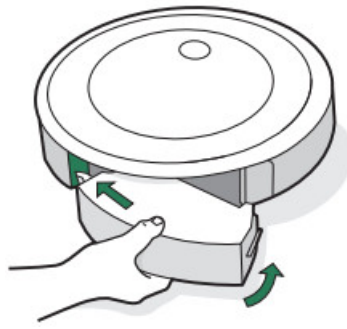
1. Press bin release button to remove bin.



2. Open bin door to empty bin.

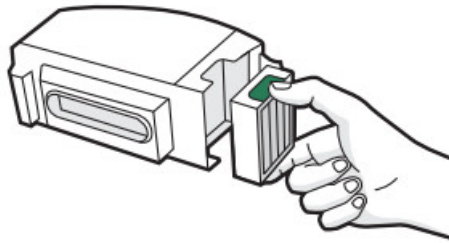


3. Place bin back in the robot.



Cleaning the Filter

1. Remove the bin. Remove the filter by grasping both ends and pulling out.



2. Remove debris by tapping the filter against your trash container.



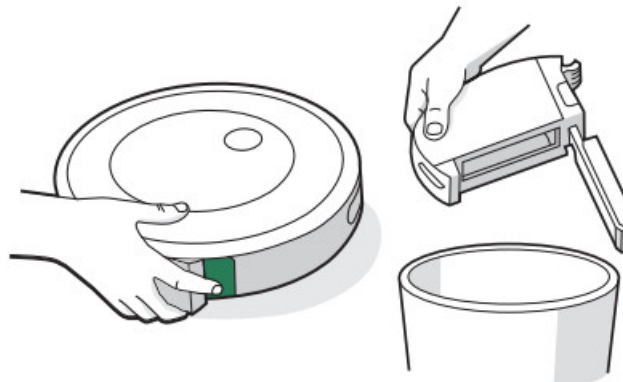
3. Reinsert filter with ridged grips facing out. Place bin back in the robot.



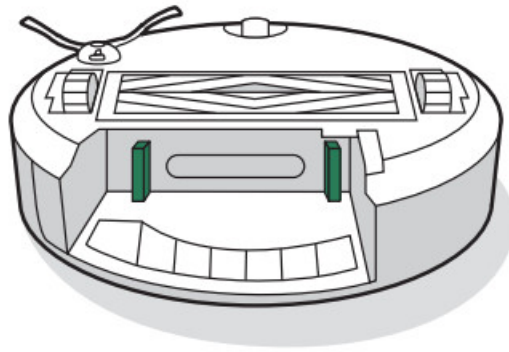
Important: The robot will not run if the filter is not installed correctly. Replace the filter every two months.

Cleaning the Full Bin Sensors

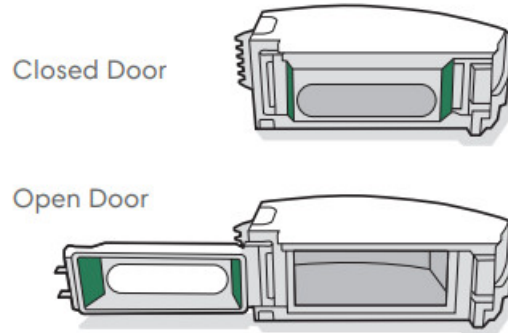
1. Remove and empty the bin.



2. Wipe the inner sensors with a clean, dry cloth.



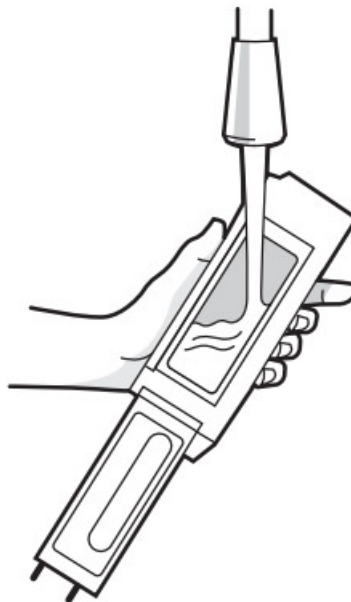
3. Wipe the bin door with a clean, dry cloth.



Washing the Bin

Important: Do not wash the filter. Remove the filter before washing the bin.

1. Release the bin, remove the filter, and open the bin door.
2. Rinse the bin using warm **water**.

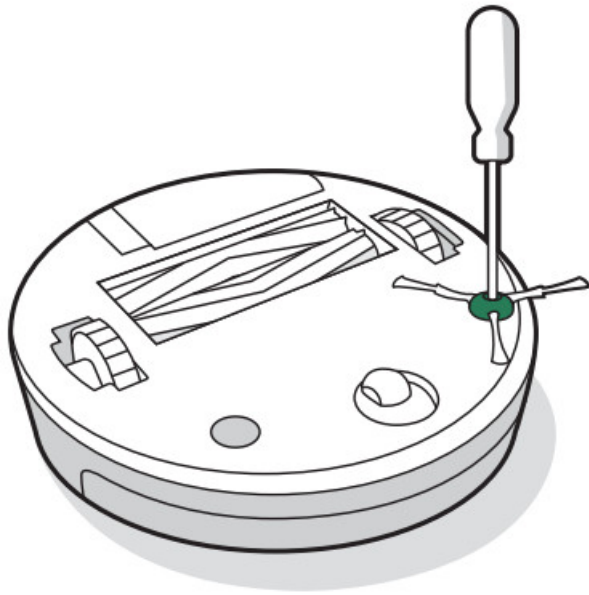


Note: Bin is not dishwasher safe.

3. Make sure bin is completely dry. Reinsert filter and place bin back in the robot.

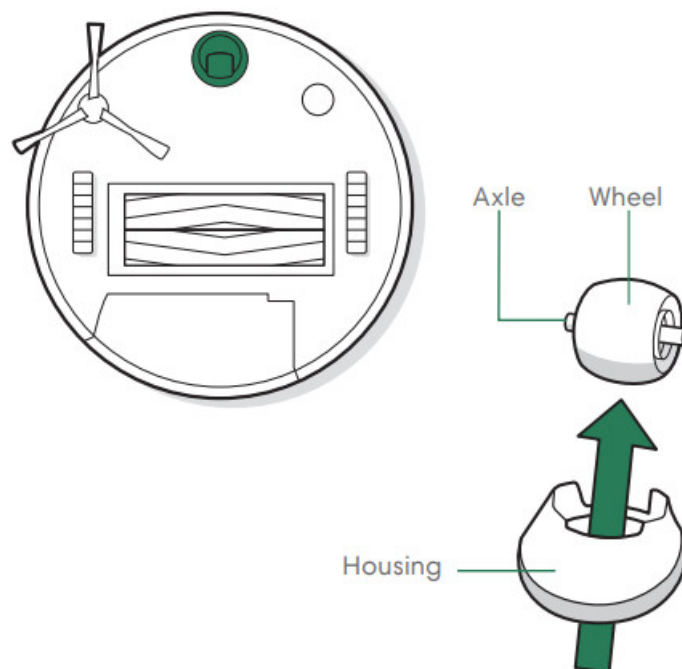
Cleaning the Edge-Sweeping Brush

1. Use a coin or small screwdriver to remove the screw holding the Edge-Sweeping Brush in place.
2. Pull to remove the Edge-Sweeping Brush. Remove any hair or debris, then reinstall the brush.



Cleaning the Front Caster Wheel

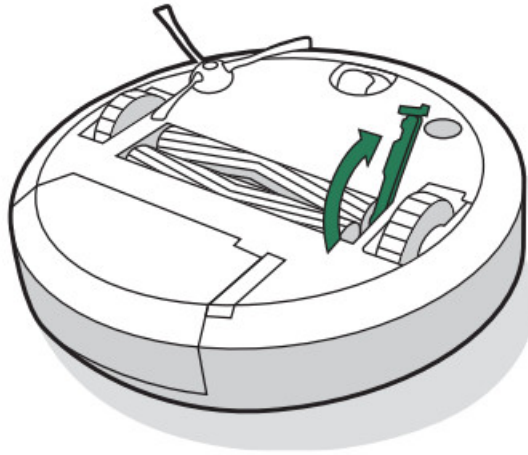
1. Pull firmly on the front wheel module to remove it from the robot.
2. Pull firmly on the wheel to remove it from its housing (see illustration below).
3. Remove any debris from inside the wheel cavity.
4. Reinstall all parts when finished. Make sure the wheel clicks back into place.



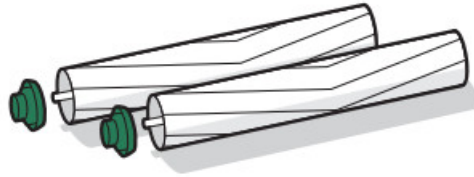
Important: A front wheel clogged with hair and debris could result in damage to your floor. If the wheel is not spinning freely after you have cleaned it, please contact Customer Care.

Cleaning the Multi-Surface Brushes

1. Pinch the brush frame release tab, lift the tab, and remove any obstructions.
- 2.



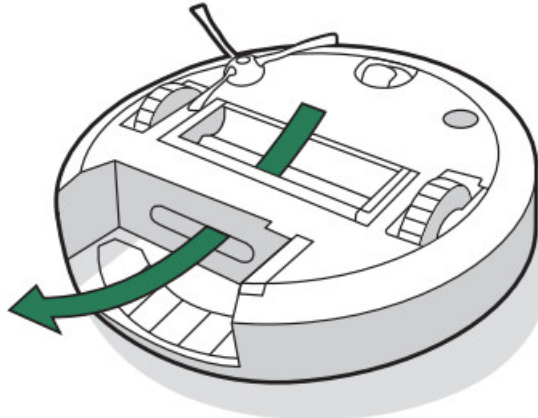
Remove the brushes from the robot. Remove the brush caps from the ends of the brushes. Remove any hair or debris that has collected beneath the caps. Reinstall the brush caps.



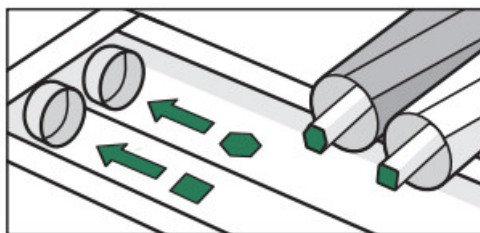
3. Remove any hair or debris from the square and hexagonal pegs on the opposite side of the brushes.



4. Remove the bin from the robot and clear any debris from the vacuum path.

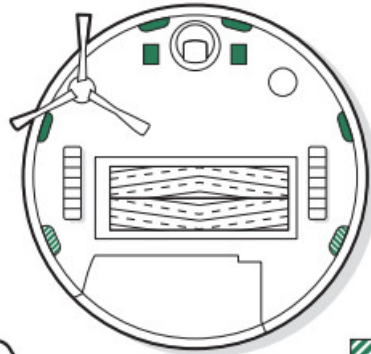
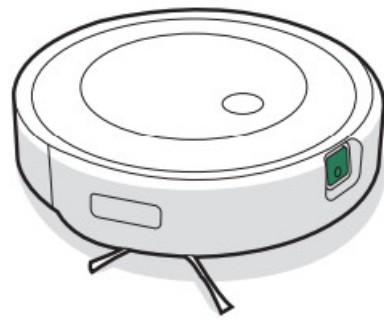


5. Reinstall the brushes in the robot. Match the shape of the brush pegs with the shape of the brush icons in the cleaning head module

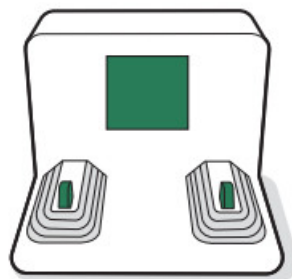


Cleaning the Sensors, Camera Window and Charging Contacts

1. Wipe sensors, camera window, and charging contacts with a clean, dry cloth.



RVE-Y1 models only

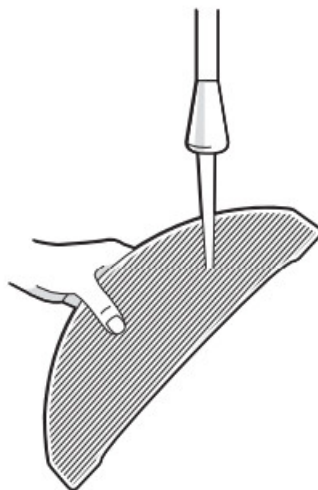


Important: Do not spray cleaning solution or water onto the sensors or sensor openings.

Cleaning the Mopping Pad

HAND WASHING

Thoroughly wash the pad with warm water.

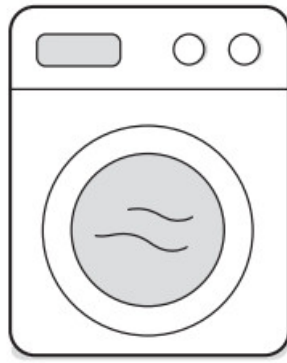


MACHINE WASHING

Wash using the warm cycle, then air dry.

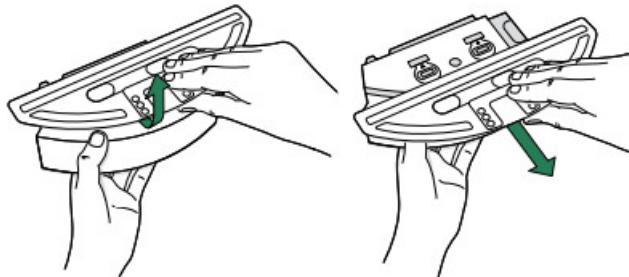
Do not tumble dry.

Do not wash with delicates.

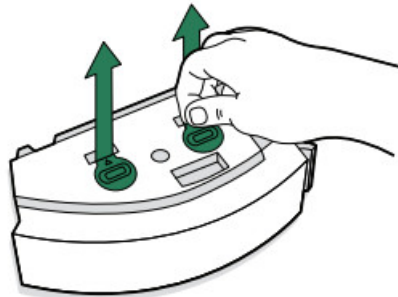


Replacing the Wick Cap

1. Remove pad plate



2. Remove the wick cap by pulling on the side rubber tab.



3. Replace with a new wick cap, pressing firmly into place to create a tight seal to prevent leaking.
4. Reinstall pad plate

Regulatory Information



Hereby, iRobot Corporation declares that this robot vacuum cleaner model RVE-Y1/RVE-Y2 is in compliance with the EU Radio Equipment Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following web address: www.irobot.com/compliance.



Hereby, iRobot Corporation declares that this robot vacuum cleaner model RVE-Y1/RVE-Y2 is in compliance with the Radio Equipment Regulations 2017. The full text of the UKCA Declaration of Conformity is available at the following web address:

www.irobot.com/compliance.



This symbol on the product indicates that the appliance must not be disposed of with unsorted common municipal waste. As the end-user, it is your responsibility to dispose of the end-of-life appliance in an environmentally sensitive manner as follows:

1. returning it to the distributor/dealer from whom you purchased the product; or

2. depositing it in a designated collection point.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details or your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste in accordance with your national legislation.

More information may be found at the following source: https://environment.ec.europa.eu/topics/waste-and-recycling/waste-electrical-and-electronic-equipment-weee_en

Chemical information report listing SVHC (substances of very high concern) per EU Regulation EU 1907/2006 can be found here: www.irobot.com/compliance.

Regulatory Model RVE-Y1 incorporates the Sextant radio module model AXG-Y1. The Sextant radio module is a dual band radio which operates in the WLAN 2.4 GHz and WLAN 5GHz bands. The Sextant radio module also incorporates Bluetooth and BLE which operates in the 2400 MHz – 2483.5 MHz band.

- The 2.4 GHz band is limited to operate between 2400 MHz – 2483.5 MHz with a maximum EIRP output power of 17.78 dBm (59.98 mW) at 2442 MHz.
- The 5 GHz band is limited to operate between 5150 MHz – 5850 MHz with a maximum EIRP output power of 20.81 dBm (120.50 mW) at 5190 MHz.
- For Israel, the 5 GHz band is limited to operate in the 5150 MHz – 5350

MHz band.

Or

Regulatory Model RVE-Y2 incorporates the FN Link radio module Model 6233E-UUB. The 6233E-UUB radio module is a dual- band radio which operates in the WLAN 2.4GHz and WLAN 5GHz bands. The 6233E-UUB radio module also incorporates Bluetooth and BLE which operate in the 2400-2483.5MHz band.

- The 2.4 GHz band is limited to operate between 2400 MHz – 2483.5 MHz with a maximum EIRP output power of 19.75 dBm (94.41 mW) at 2462 MHz.
- The 5 GHz band is limited to operate between 5150 MHz – 5850 MHz with a maximum EIRP output power of 20.07 dBm (101.62 mW) at 5180 MHz.
- For Israel, the 5 GHz band is limited to operate in the 5150 MHz – 5350 MHz band.

Recycle your end-of-life iRobot product responsibly as per local regulations.

The following is a list of the WEEE recycling organisations contracted by iRobot at the time of product sale.

Location	Organisation	URL
Austria	UFH	http://www.elektro-ade.at/elektrogeraete-sammeln/liste-der-sammelstoesterreich/
Belgium	Recupel	https://www.recupel.be/en/where-to-go/?searchcollectionPoints=&categories=1%2C2%2C3%2C4#
Germany	Zentek	https://www.ear-system.de/earverzeichnis/sammel-und-ruecknahme-stback
Denmark	Elretul	https://www.dpa-system.dk/DPAApplications/DPADB.aspx?wf=CollectionPointSearch.as
Spain	Ecotic	https://www.dpa-system.dk/DPAApplications/DPADB.aspx?wf=CollectionPointSearch.as
France	Eco-systemes	https://www.dpa-system.dk/DPAApplications/DPADB.aspx?wf=CollectionPointSearch.as
Ireland	WEEE Ireland	https://www.dpa-system.dk/DPAApplications/DPADB.aspx?wf=CollectionPointSearch.as
Netherlands	Wecycle	https://www.watismijnapparaatwaard.nl/
Sweden	El-Kretsen	https://www.sopor.nu/sortera-återvinn/
United Kingdom	Repic	http://www.responsible-recycling.co.uk/contact-us/find-your-local-recy

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

iRobot Customer Care

USA & Canada

If you have questions or comments about your dirt disposal, please contact iRobot before contacting a retailer. You can start by visiting global.irobot.com for support tips, frequently asked questions, and information about accessories. This information can also be found in the iRobot HOME App. If you need further assistance, call the US

Customer Care team at (877) 855-8593.

iRobot USA Customer Care Hours

Monday to Friday, 9AM — 9PM Eastern Time

Saturday and Sunday 9AM — 6PM Eastern Time

Outside USA & Canada

Visit global.irobot.com to:

Learn more about iRobot in your country

Get hints and tips to improve your product performance

Get answers to questions

Contact your local support center

The complete owner's guide is available at about.irobot.com/manual#comboj5

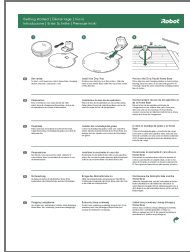


©2023 iRobot Corporation, 8 Crosby Drive, Bedford, MA 01730 USA.

All rights reserved. iRobot and Roomba are registered trademarks of iRobot Corporation. Home Base and Dirt Detect are trademarks of iRobot Corporation.

Wi-Fi and the Wi-Fi logo are registered trademarks of Wi-Fi Alliance.

Documents / Resources



[iRobot j517020 Getting Started](#) [pdf] Instruction Manual
j517020 Getting Started, j517020, Getting Started, Started

References

- [Manuals | iRobot](#)
- [Manuals | iRobot](#)
- [Call2Recycle | Leading the Charge For Battery Recycling](#)
- [Global.iRobot.com](#)
- [Global.iRobot.com](#)
- [Find Answers | iRobot](#)
- [ROBOT.COM - Redirect](#)
- [Elektrogeräte sammeln | Elektro ade](#)
- [irobot.com/compliance](#)
- [Contact Us - Electrical Recycling | REPIC | Responsible Recycling](#)
- [Household Recycling Public Collection Days - WEEE Ireland](#)
- [Buscador de puntos-limpios | Buscador de Puntos Limpios](#)
- [ear stiftung elektro-altgeräte register](#)
- [Donner une seconde vie à mes équipements électriques | ecosystem](#)
- [Find a collection point - Recupel](#)
- [Wat is mijn apparaat waard? | Wat is mijn apparaat waard?](#)
- [User Manual](#)