

**iRobot®**  
Dirt Dog



## Owners Manual

.....  
SAVE 15%  
on accessories.

See back for details.  
.....



i♥Robots

**iRobot®**  
www.irobot.com

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# Important Safety Instructions

**⚠ CAUTION: DO NOT EXPOSE THE ELECTRONICS OF Dirt Dog, 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 Dirt Dog. To reduce the risk of injury or damage, keep these safety precautions in mind when setting up, using and maintaining your Dirt Dog:

## GENERAL SAFETY INSTRUCTIONS

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

## Dirt Dog USE RESTRICTIONS

- Dirt Dog is for indoor use only.
- Dirt Dog is not recommended for shag, high pile carpet, or tassels.
- Dirt Dog is not a toy. Do not sit or stand on this device. Small children and pets should be supervised when Dirt Dog is cleaning.
- Clean with a dry cloth only. Do not pour or spray water onto Dirt Dog.
- 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.
- Do not use this device to pick up sharp objects such as nails, screws, or broken glass.

## Dirt Dog 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.
- Dirt Dog'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 Dirt Dog from the charger before cleaning.

# **iRobot®**

Dear iRobot® Dirt Dog Owner,

Welcome to the new world of iRobot. As an owner of iRobot's latest Dirt Dog 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 handwritten signature in blue ink, appearing to be 'C. J. ...'.

Co-Founder and CEO  
iRobot Corporation

# Important Tips

**⚠ Remove and clean Dirt Dog's brushes after every 3 uses.**

**⚠ Dirt Dog contains electronic parts. Do NOT submerge Dirt Dog or spray with water except for the bin. Clean with a dry cloth only.**

**⚠ Always consult your floor manufacturer for approved cleaning methods.**

**⚠ Use on hard floor surfaces only.**

**⚠ Not designed for continuous operation or commercial use.**

## For Best Performance

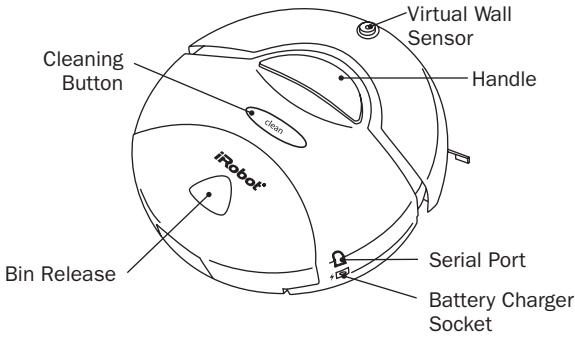
- Dirt Dog is designed to clean the hard floor found in your garage or basement. Not for use on medium or high pile carpet.
- Keep wheels and brush free of hair and debris by inspecting and cleaning the bottom of the robot regularly.
- If used in a dirty environment, do not use to clean scratch-prone surfaces like finished flooring.
- Empty Dirt Dog's bin after every 3 uses.
- Always store Dirt Dog connected to its charger or Home Base™.

# Table of Contents

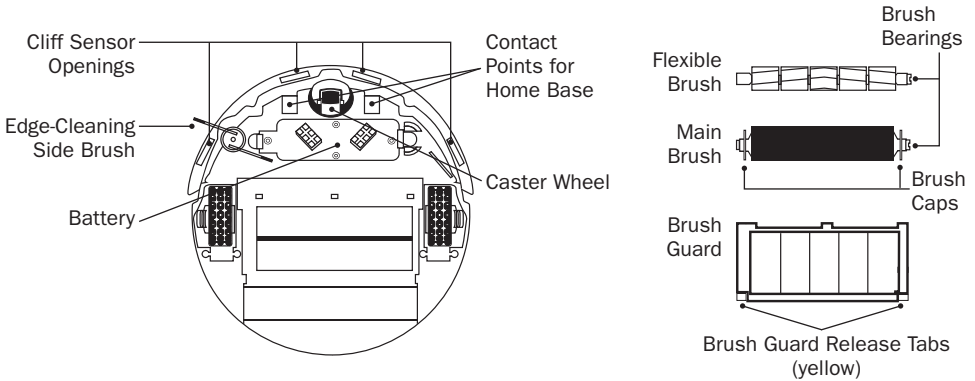
Anatomy .....	6
Cleaning Pattern.....	7
Cleaning System .....	8
Cleaning Modes .....	9
Battery Storage and Charging.....	10 – 11
Virtual Walls® .....	12
Home Base™.....	13
Remote Control .....	14
Scheduler Remote Control .....	15 – 19
Maintenance.....	20
Troubleshooting.....	21
iRobot Customer Care .....	22
Important Safety Instructions .....	23

# Anatomy

## Top View



## Bottom View



# Cleaning Pattern

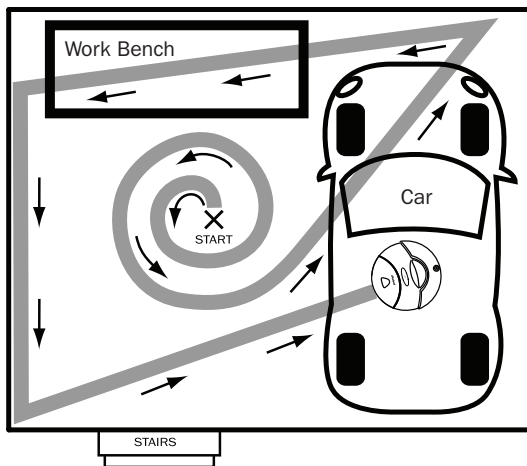
Dirt Dog is a robot that cleans differently than the way most people clean their floors. Dirt Dog uses iRobot's AWARE™ Robot Intelligence System to determine the best way to pass over and clean every section of the floor.

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

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

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

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



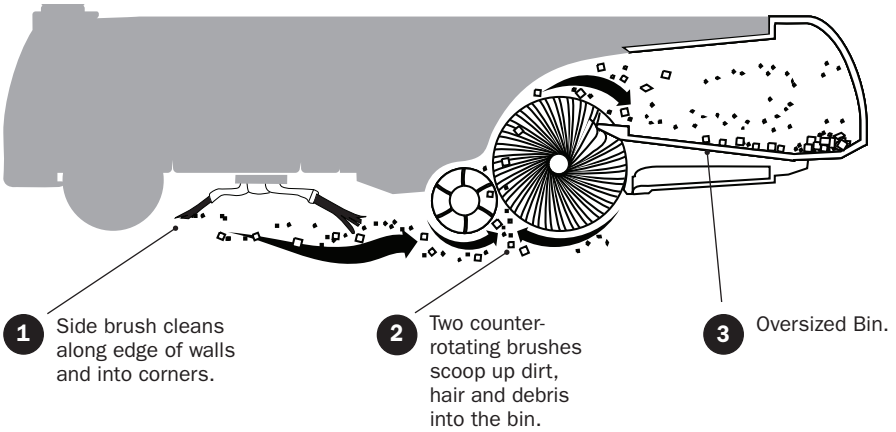
**TIP: Dirt Dog takes approximately 45 minutes to clean an average room and will pass over the same area of the floor multiple times to ensure total floor coverage.**

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

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

# Cleaning System

Dirt Dog features a patented 3-stage cleaning system.



## Floor Surfaces

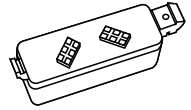
Dirt Dog works on hard floor surfaces like wood, low pile carpet, tile, vinyl, and linoleum, and will automatically transition between different floor types.

**⚠ If you use Dirt Dog in a dirty environment, do not use it to clean scratch-prone surfaces like finished flooring.**



# Battery Storage and Charging

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



## Battery Life

To extend the battery life, we recommend storing Dirt Dog's battery in the robot with the power supply plugged in, or with Dirt Dog on the Home Base. If stored correctly, Dirt Dog's battery will take less than 3 hours to recharge. If Dirt Dog is left off of its charger for extended periods of time, its battery life and cleaning time will be reduced.

## Cleaning Time

You should fully charge Dirt Dog's battery before each cleaning cycle. When fully charged, Dirt Dog will clean a maximum of 90 minutes on hard floors and for less time on rugs. Cleaning time is dependent on battery health and floor surface, and may vary over time.

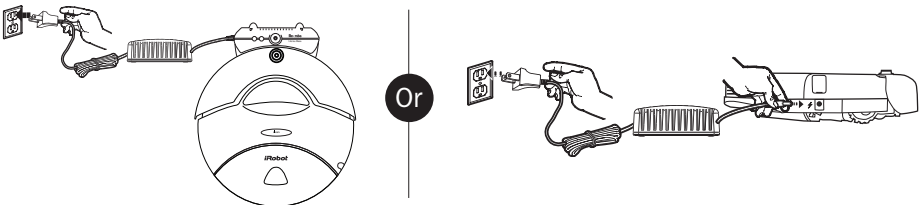
## 16 Hour Refresh Charge

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

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

## Charging Dirt Dog

Charge Dirt Dog in one of two ways:



## Charging Lights

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



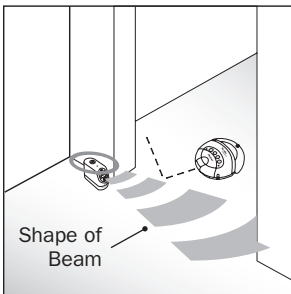
Charging Indicator Light	Battery Status
Red	Battery empty
Amber pulse	Charging
Solid green	Fully charged

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

## Virtual Walls® (optional accessory)

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

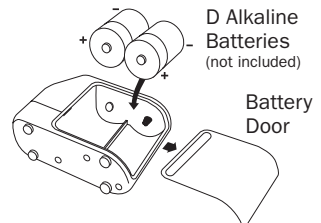
**TIP: Use the Virtual Walls to block doorways or to keep Dirt Dog away from cords. Confining Dirt Dog to a single room will accelerate cleaning.**



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

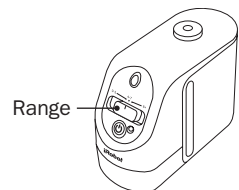
### Battery Installation

The Virtual Wall requires 2 "D" batteries and automatically shuts off after 135 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 Dirt Dog. See page 18 for details.**

Dirt Dog is compatible with Roomba Virtual Walls. Additional Virtual Walls may be purchased at [www.irobot.com](http://www.irobot.com).

## Home Base™ (optional accessory)

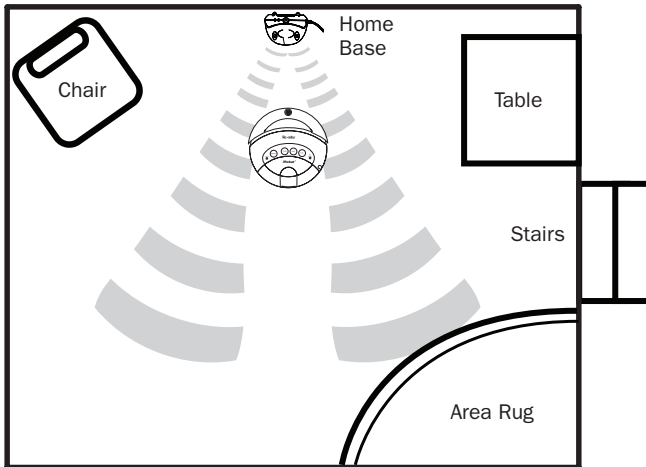
Dirt Dog returns to the Home Base at the end of a cleaning cycle or when its battery is running low. Dirt Dog needs to find the infrared signal of the Home Base in order to return.

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

### Home Base Location

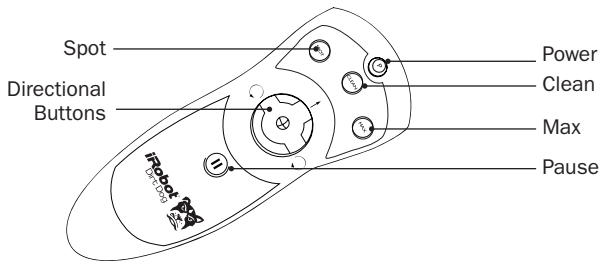
You should position the Home Base on a hard level surface and in an area where Dirt Dog has a clear path to return to the dock at the end of a cleaning cycle. If Dirt Dog is unable to dock on its first attempt, it will try again until it successfully docks.

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



**⚠ The Dirt Dog Remote, Virtual Wall, and Home Base operate using an invisible infrared technology. If they are all used in the same area, Dirt Dog may see multiple infrared signals and not operate. Dirt Dog 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 *(optional accessory)*



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

**Clean:** Start Dirt Dog in Clean mode. Dirt Dog calculates room size and adjusts cleaning time.

**Spot:** Start Dirt Dog in Spot mode.

**Max:** Start Dirt Dog in Max mode. Dirt Dog runs until battery is depleted.

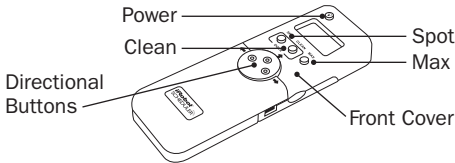
**Pause:** Pause Dirt Dog in the middle of the cleaning cycle. Press pause again to continue.

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

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

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

# Scheduler Remote Control *(optional accessory)*



The Scheduler Remote Control is an optional accessory.

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

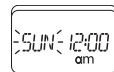
Install the batteries and set the time before using for the first time.

## Setting the Time

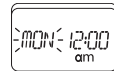
- 1 Open the Scheduler Remote Control's front cover. The display will turn red and read "SET TIME".



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

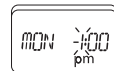


- 3 Press **+** to change the day.



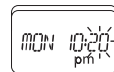
- 4 Press **➡** to navigate to the hour on the display.

- 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.



To schedule iRobot Dirt Dog 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 Dirt Dog 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 Dirt Dog 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 Dirt Dog and the scheduling Virtual Walls.

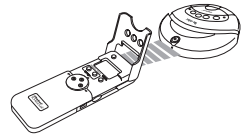
### To send a schedule to your Dirt Dog:

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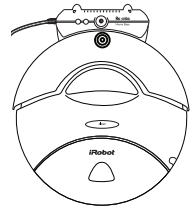
**1** Power on Dirt Dog with the Power button.

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



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



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

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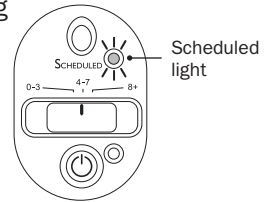
**⚠ To accept a schedule, Dirt Dog must either be at least eight feet from the Home Base or charging on the Home Base and Dirt Dog's power must be on. iRobot Scheduler, Virtual Walls, and Home Base all operate using invisible infrared beams. If used in the same area, Dirt Dog may see multiple infrared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



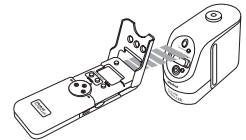
## Sending Schedules

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 Dirt Dog 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.

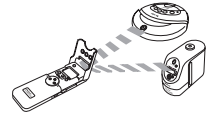


- 4 Scroll to the field you wish to change using the ◀ and ▶ buttons and use the + to change the time, day, or frequency.

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

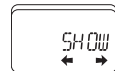


- 6 Send the updated schedule to Dirt Dog and the scheduling Virtual Walls. See pp. 17 – 18 for details.



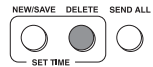
## Deleting Schedules

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

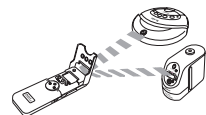


- 2 Scroll through the schedules using ◀ or ▶ until the schedule you wish to delete is displayed.

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



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



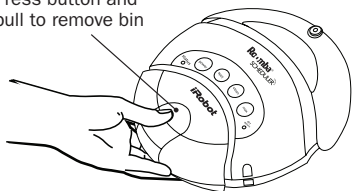
**TIP: You can clear the schedule from the scheduling Virtual Walls and from Dirt Dog by removing and replacing the batteries.**

# Maintenance

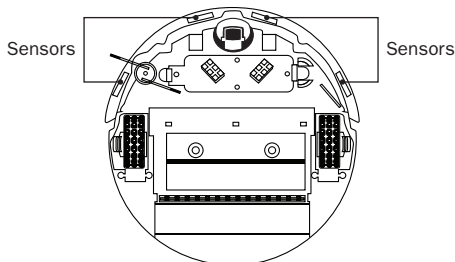
To keep Dirt Dog running at peak performance, it is recommended that you perform the following maintenance tasks every three uses:

- 1 Remove and empty Dirt Dog's bin

Press button and pull to remove bin

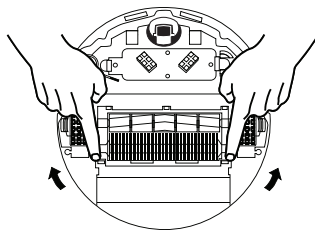


- 2 Clean Dirt Dog's cliff detect sensors (use compressed air)

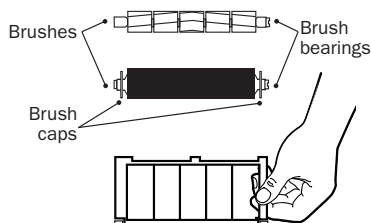


- 3 Clean Dirt Dog's brushes

- A. Remove brush guard by pulling both yellow tabs



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



- C. Remove and clean hair and dirt from Dirt Dog'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 Dirt Dog picking up less debris from your floor, empty the bin and clean the brushes.

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

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

# Troubleshooting

Dirt Dog will tell you when something is wrong with a two-tone “uh-oh” sound followed by beeping. Refer to the chart below to resolve Dirt Dog’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 Dirt Dog 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 Dirt Dog. 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.
4	A wheel motor cannot run	Your Dirt Dog 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 Dirt Dog 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 Dirt Dog and remove any obstructions that prevent the wheels from seating all the way up into Dirt Dog’s body. Also, remove any obstacles that Dirt Dog could drive over.
7 or 8	Not applicable	Dirt Dog’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	Dirt Dog is stuck	Pick up Dirt Dog and start it again somewhere else. Use a virtual wall or other barrier to keep Dirt Dog away from the place it got stuck.

## Miscellaneous Troubleshooting

Problem	Likely cause	What to do
Dirt Dog’s Power light will not illuminate	Battery not seated correctly	Remove Dirt Dog’s battery by pushing the side clips and re-insert the battery making sure you hear an audible click.
Dirt Dog is not picking up debris	Bin is full	Empty the bin and clean Dirt Dog’s brushes. (See page 20)
Dirt Dog 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 Dirt Dog. Dirt Dog’s charger and Home Base will each illuminate a solid green light when plugged into a power source.
Dirt Dog backs up frequently and behaves erratically	Dirty cliff sensors	Use compressed air to clean out Dirt Dog’s cliff sensors. (See page 19)

**TIP: If you notice that Dirt Dog 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 Dirt Dog, 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

# iRobot® Dirt Dog



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



#### **iRobot Scheduler**

Add scheduling to your Dirt Dog.

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



#### **Virtual Wall**

Keep Dirt Dog cleaning where you want it.

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



#### **Standard Wall Mount**

Convenient storage for Dirt Dog and its remote control.

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



#### **Self-Charging Home Base**

Dirt Dog returns to the Home Base to recharge automatically.

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



#### **Replenish Kit**

New main brush and flexible brush plus 3 filters.

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



#### **Remote Control**

Lets you control Dirt Dog functions from across the room.

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

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

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