



iRobot Roomba 870 Bumper Sensor Replacement

This guide provides the steps necessary to replace the infrared bumper sensor attached to the front of the iRobot Roomba 870

Written By: Jacob Lindberg



INTRODUCTION

Is your Roomba not able to sense surrounding obstacles, preventing it from avoiding such barriers? If so, here is the guide to fix the problem with a simple change of the bumper sensor. All you need are the standard #0 and #1 Phillips Screwdriver heads in order to remove the two types of screws involved with this replacement.



TOOLS:

- [Phillips #0 Screwdriver](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
-

Step 1 — Bumper Sensor



- Flip the iRoomba over so that the underside is facing up.
- Using the Phillips #0 screwdriver, remove the 4.0mm screw in the center of the yellow side brush.
- Remove the yellow side brush.

Step 2



- Remove the two 3.5mm Phillips screws that hold the battery cover onto the Roomba with a Phillips #0 screwdriver.
- Remove the battery cover.

Step 3



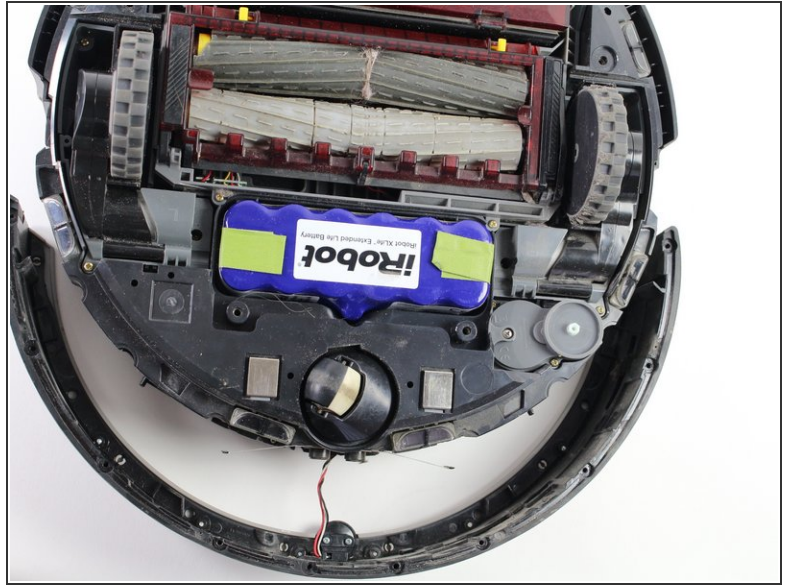
- Remove the two remaining 3.5mm Phillips #0 screws that attach the base-plate to the bottom of the Roomba.
- Remove the entire base-plate from the bottom of the Roomba.


Step 4



- Remove the ten 3mm screws that attach the bumper guard to the bumper with a Phillips #1 screwdriver.
- Remove the bumper guard.

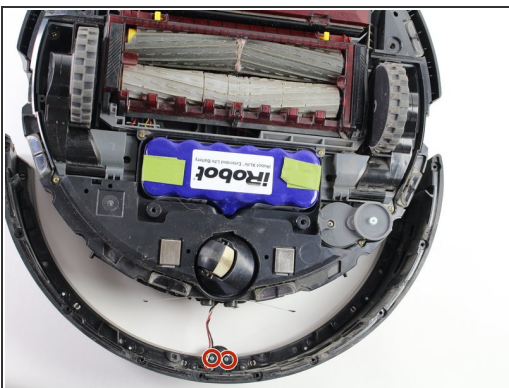
Step 5



 Be careful when removing the bumper from the Roomba to prevent damage to the sensor wires. Remove slowly!

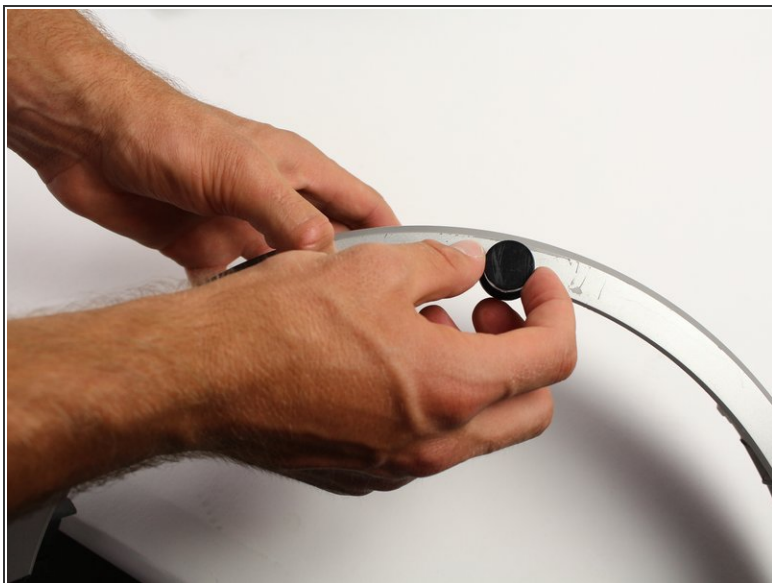
- Lift up the Roomba so that its bumper is not resting on anything, and slowly separate the bumper from the device.


Step 6



- Remove the two 3mm screws that attach the sensor connector to the bumper/sensor with a #1 Phillips Screwdriver.
- Carefully detach the sensor connector from the bumper and the sensor.

Step 7



 The sensor is now loose on the bumper. Be careful not to rapidly move the bumper for fear of dislodging the sensor and breaking it.

- Flip the bumper over, ensuring the sensor remains inside the sensor compartment.
- Gently remove the bumper from the black infrared sensor.

To reassemble your device, follow these instructions in reverse order.