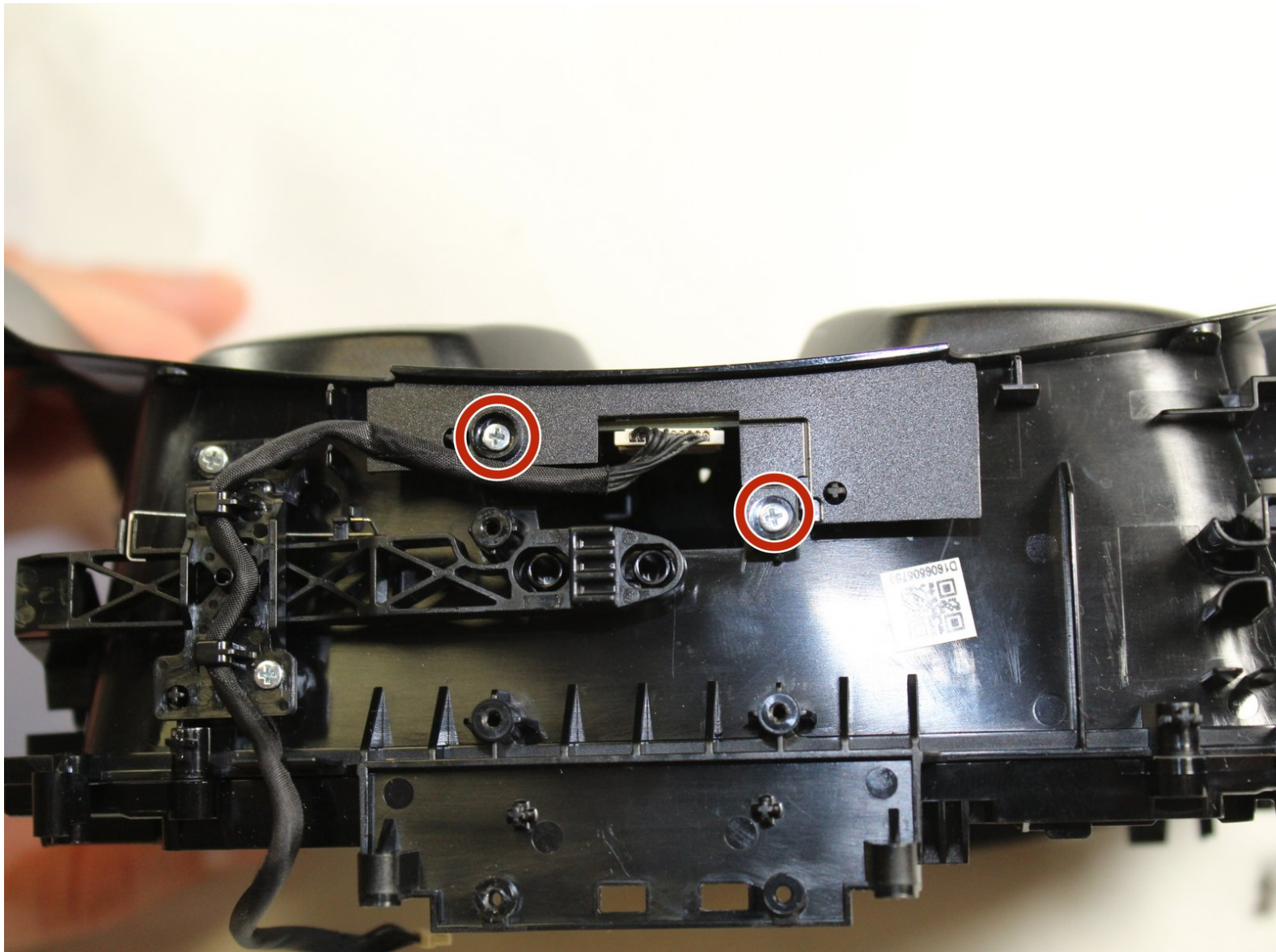




PlayStation VR Infrared Range Finder Replacement

This guide will show you how to replace the Infrared Range Finder on a PlayStation VR Headset.

Written By: Aaron Suttles



INTRODUCTION

If your PlayStation VR Headset is experiencing location and movement difficulty, use this guide to remove and replace Infrared Range Finder found in the VR headset. Replacing a faulty Infrared Range Finder can greatly improve usability. Please confirm sensor part number prior to purchasing replacement components, since they may vary. The part number should be printed on the sensor itself. It may be necessary to contact Sony for parts, as this sensor is difficult to find.

A troubleshooting guide is also available from Sony [here](#). Please keep in mind that this method requires experience with soldering components directly to a circuit board. If this method is not what you're looking for, it is also possible to replace the entire sensor board seen in step 25. Remember, computer components are fragile. Be careful with clips and wiring when disassembling and reassembling the computer. They can easily break or get pinched. It may also be helpful to take a picture of wiring routing and component placement before disassembly as a reference for reassembly.



TOOLS:

- [Hair Dryer](#) (1)
 - [Tweezers](#) (1)
 - [iFixit Opening Tool](#) (1)
 - [Phillips #000 Screwdriver](#) (1)
 - [Soldering Workstation](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
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Step 1 — LED Light Tracker



- Peel back the rubber covering around the lenses to remove the surrounding plastic eyepieces.

Step 2



- Unscrew four 13 mm screws with a PH #000 screwdriver.

Step 3



- Using the plastic opening tool, carefully pry the white plastic panel free from the side of the headset. Repeat this action for the opposite side.

Step 4



- Use the plastic opening tool to pry the top white plastic panel free from the headset.
- ⓘ Do not try to remove the bottom plastic panel. There is a screw attaching it that must be removed first.
- ⓘ There may be a small amount of adhesive attaching the top panel to the headset, in which case you may need to use a bit more force to remove the panel.

Step 5



- Flip the headset over.
- Using a PH #000, unscrew the 7 mm screw found on the bottom of the headset.

Step 6



- Using the plastic opening tool, pry the bottom white plastic panel loose and remove it from the headset.

i There is adhesive attaching the panel to the headset, in which case it will take more force to remove the panel.

Step 7



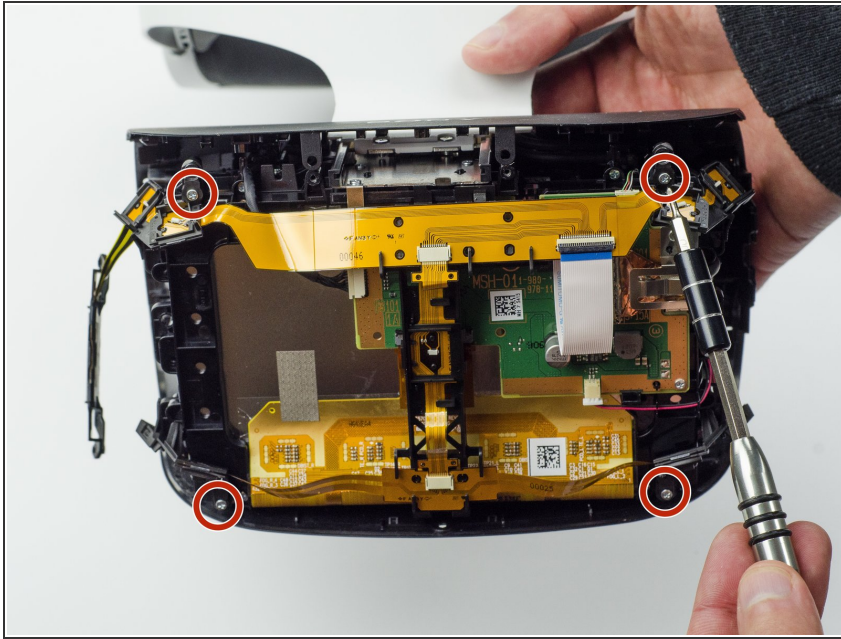
- Unscrew the two 7 mm screws from the top of the headset.

Step 8



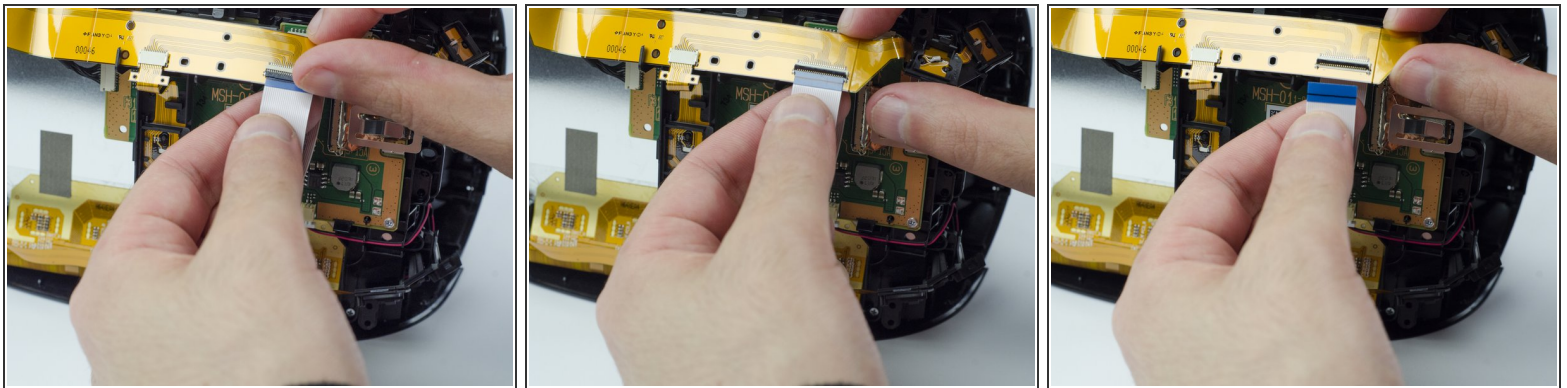
- Using your fingers, carefully pry the black front panel free from the headset.
- ⓘ We recommend that you start the removal from the sides by pulling them forward.
- ⓘ There is adhesive holding the front panel in place, which means you will need a bit of extra force to remove it.

Step 9



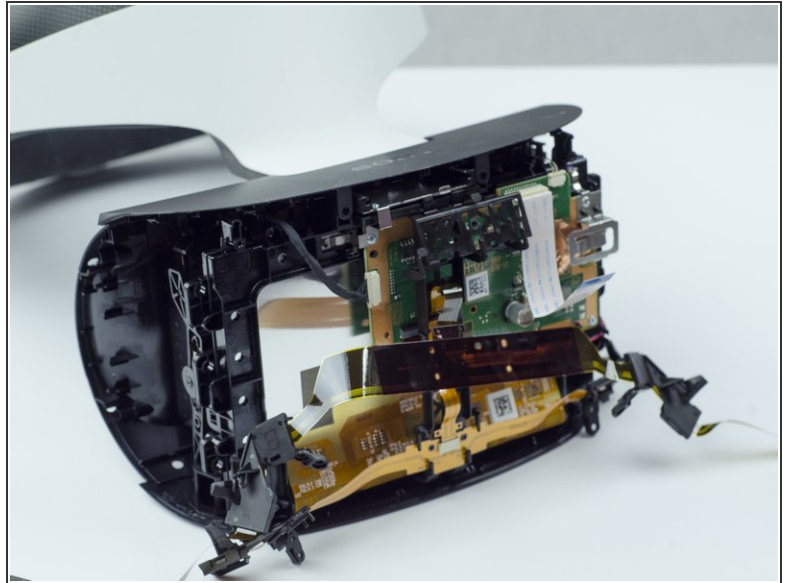
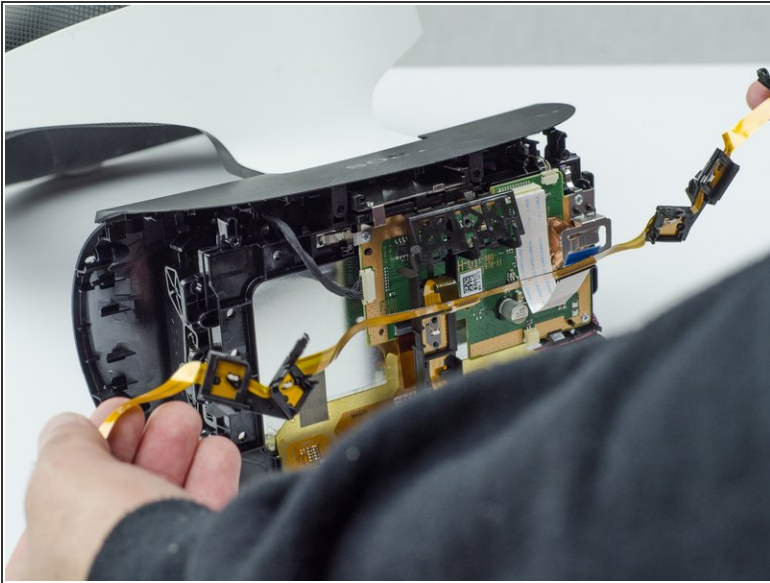
- Unscrew the four silver 6 mm screws in each corner using a PH #000 screwdriver.

Step 10



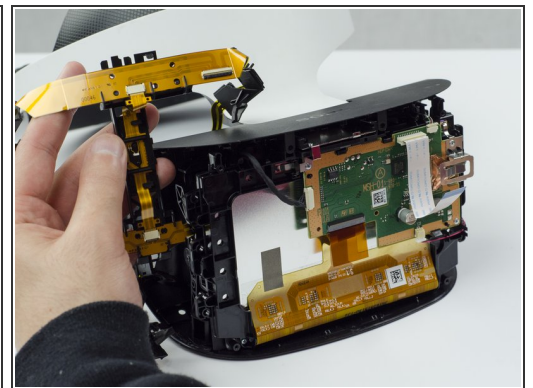
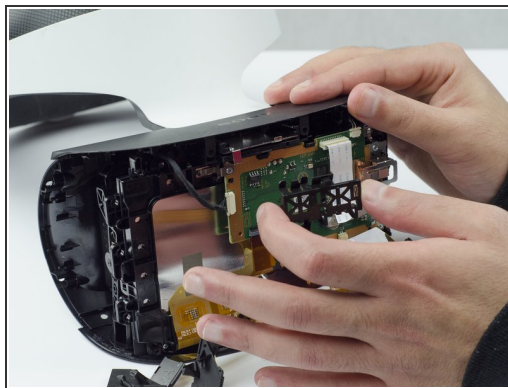
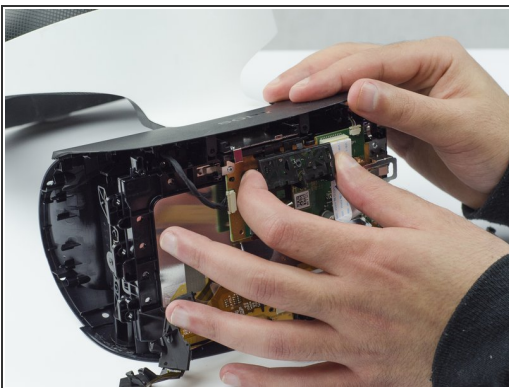
- Lift the small silver latch attaching the ZIF (zero insertion force) connector to the circuit board.
- Carefully pull the end of the white ribbon connector from its slot.
- ⓘ Be careful not to damage or dirty the ribbon connector.

Step 11



- Unhitch the yellow led connector ribbon and move it aside.
- ❗ Be careful not to damage or dirty the ribbon connector.

Step 12



- Carefully pry the black plastic piece attaching the yellow ribbon to the headset away from the green circuit board.
- Remove the yellow LED ribbons and black plastic connecting piece from the headset.

Step 13 — Headset Lenses



- Using the tweezers, unplug the three (one black bundled, two multi colored bundled) connector cables from their ports along the circuit board.

Step 14



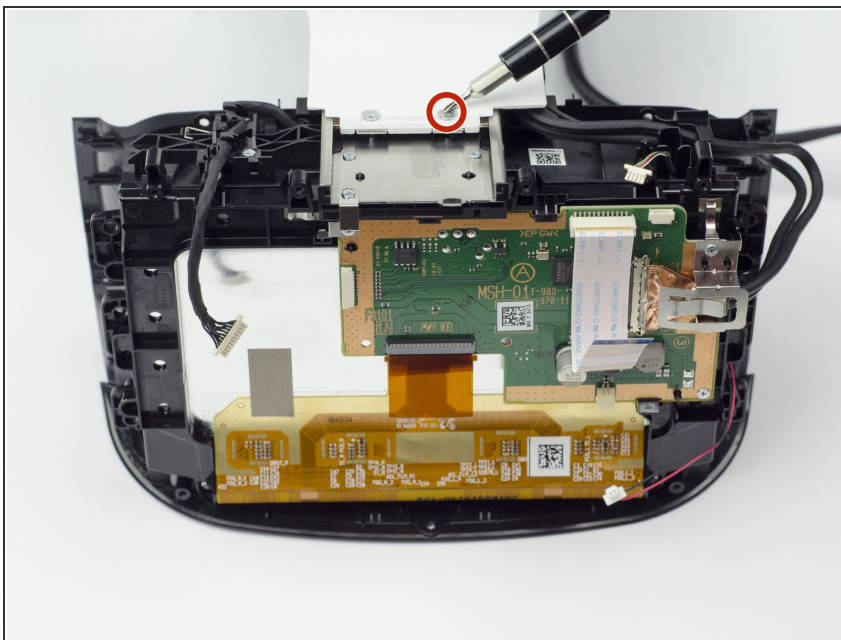
- Flip the headset over.
- Unscrew the two 7 mm screws near the lenses with a PH #000 screwdriver.

Step 15



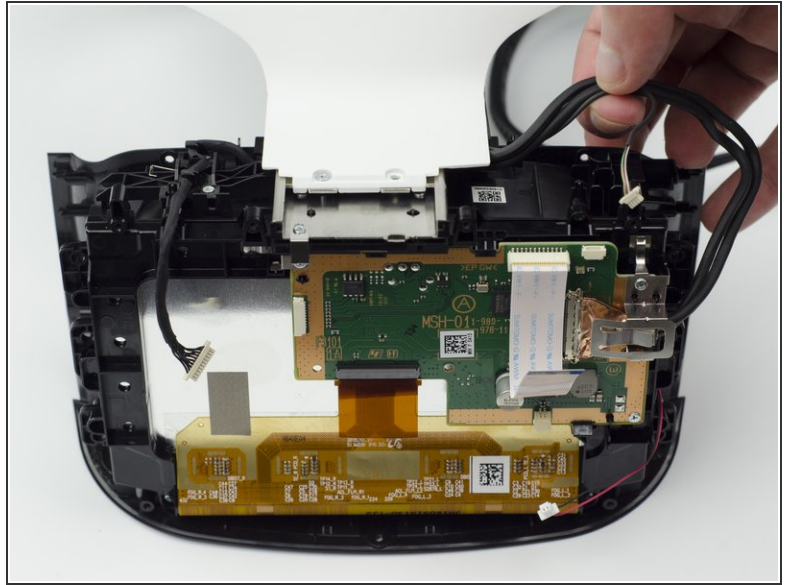
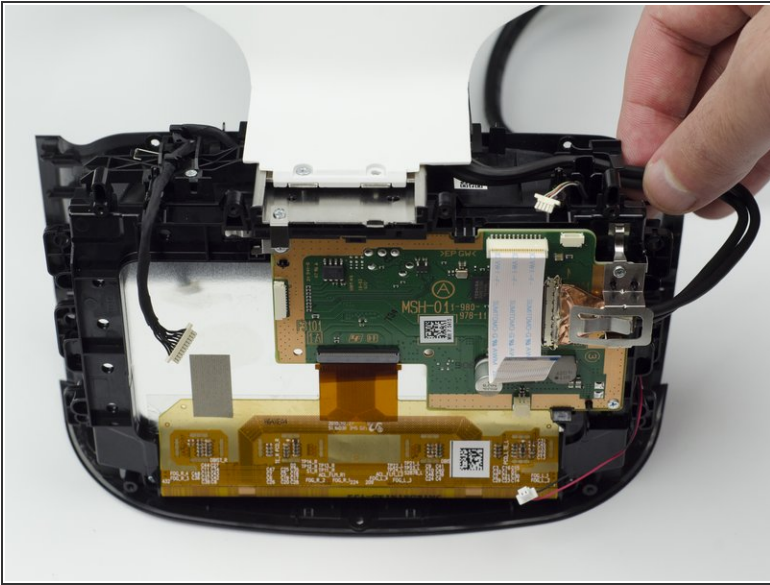
- Flip the headset back over.
- With your fingers, carefully pry the top black plastic panel free.

Step 16



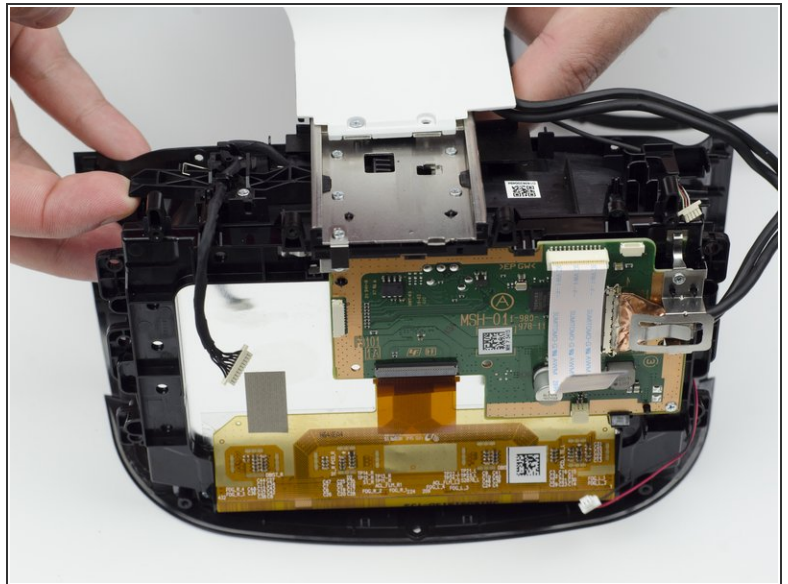
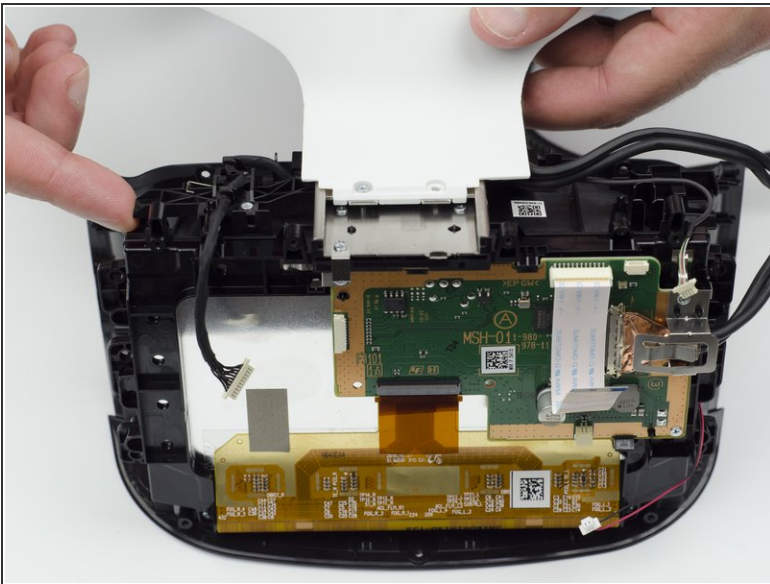
- Unscrew one silver 4 mm screw from the white plastic band connecting the rest of the headset.
 - One 4 mm screw with a PH #000 screwdriver.
- ⓘ Even though there are two, only one of the silver screws needs to be unscrewed.

Step 17



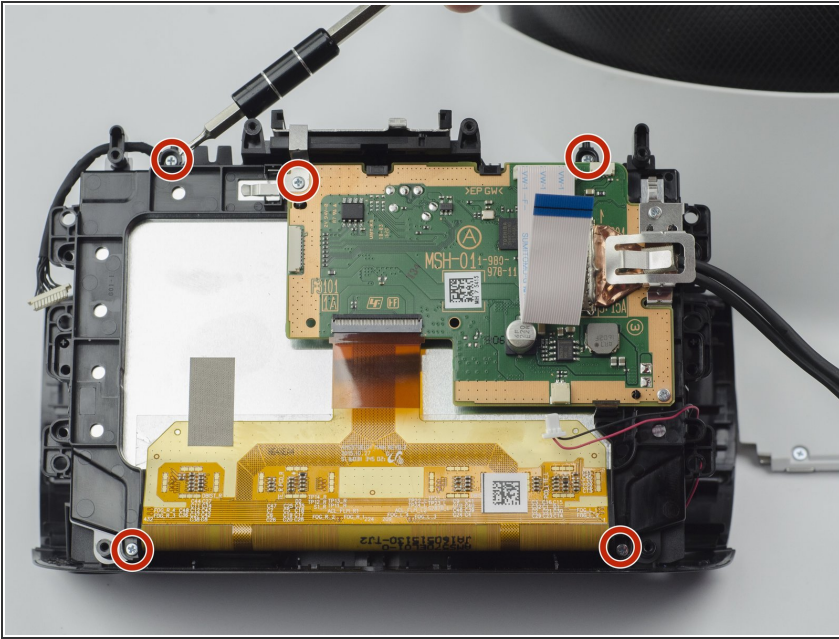
- Move the top black wires aside.

Step 18



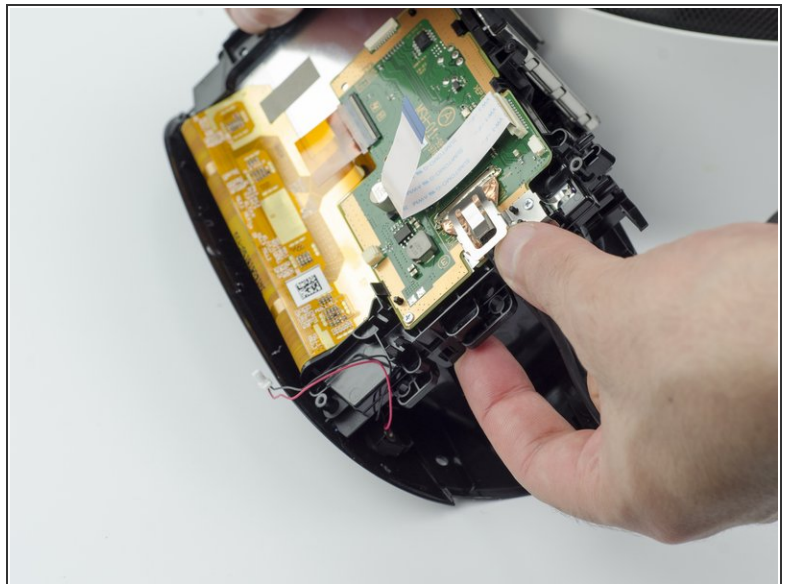
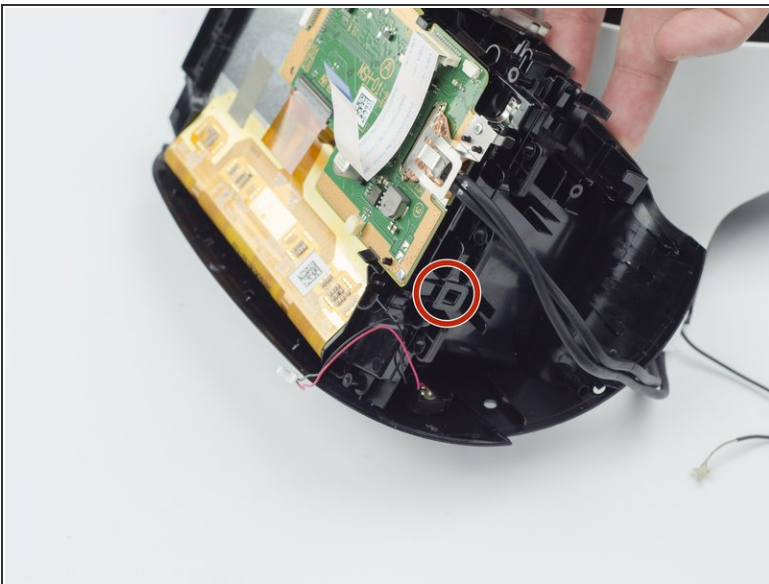
- Using a finger, press the black plastic tab up to loosen the white connector piece.
- Slide the white plastic connector piece back and lift up to remove it.

Step 19



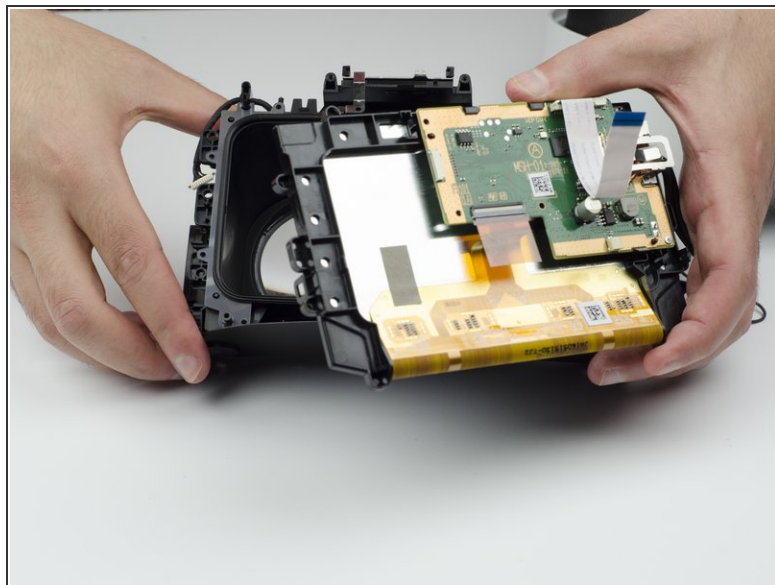
- Unscrew the five silver 6 mm screws from the circuit board.
- Five 6 mm screws with a PH #000 screwdriver.

Step 20



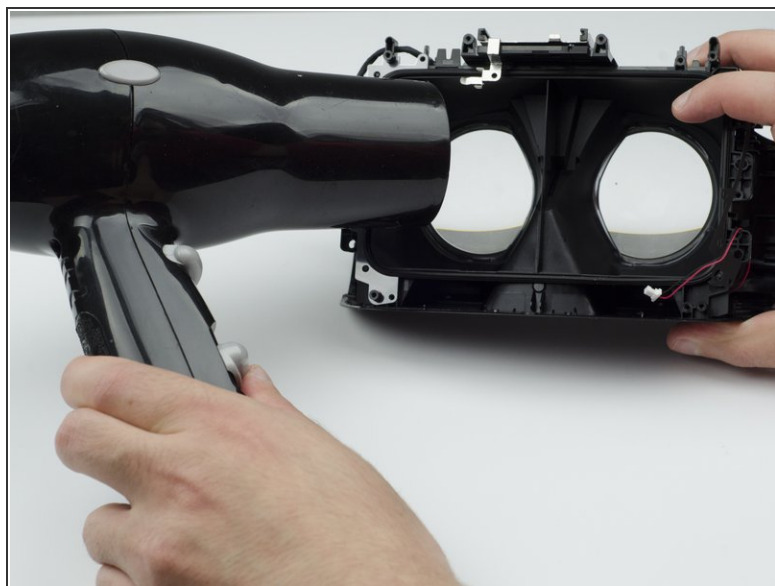
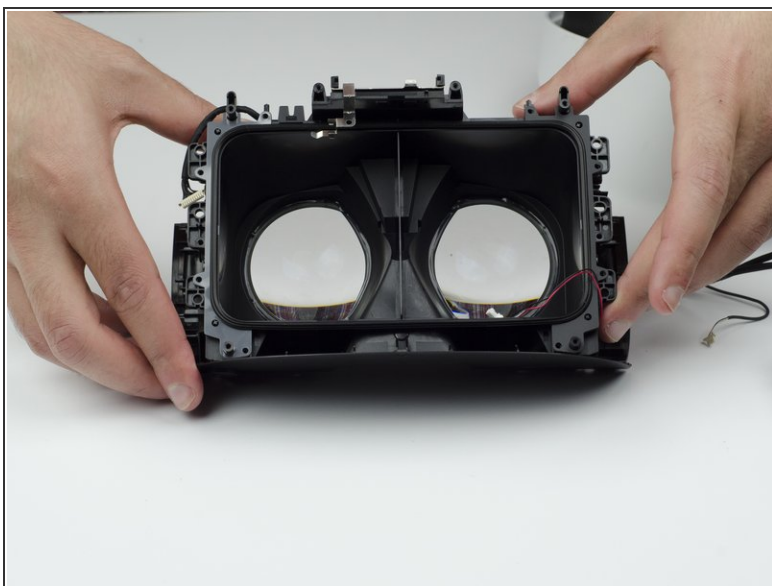
- Using your fingers, lift up on the sides of the black plastic piece holding the circuit board in place.
- There are small plastic tabs on the side that latch the piece in place that need to be lifted in order to remove it.

Step 21



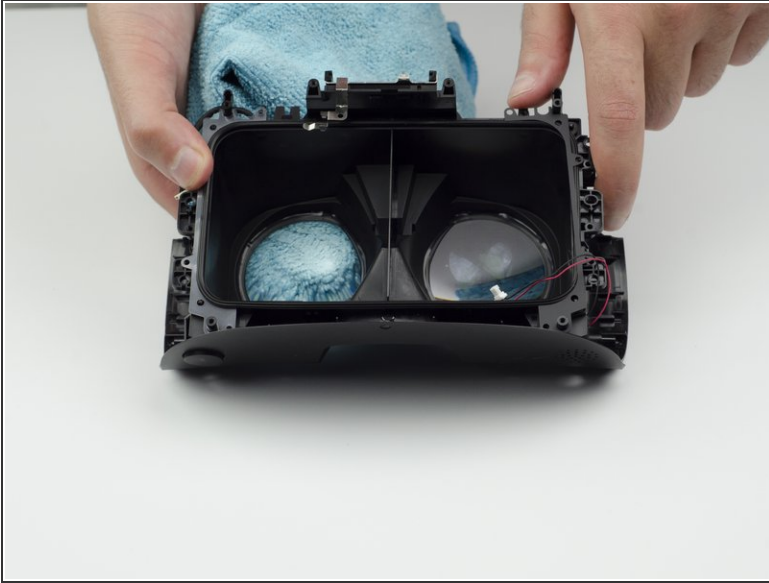
- Carefully lift the circuit board out of the headset and set aside.
- ⓘ Take care not to touch the screen.

Step 22



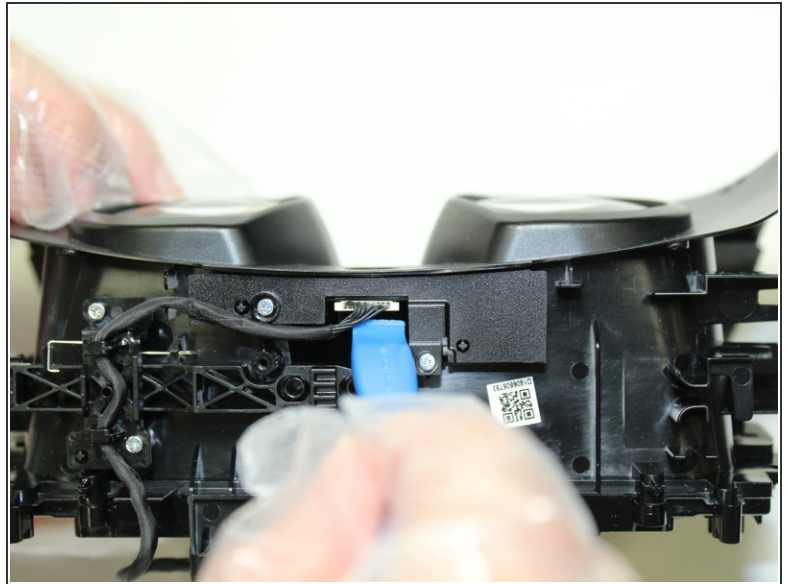
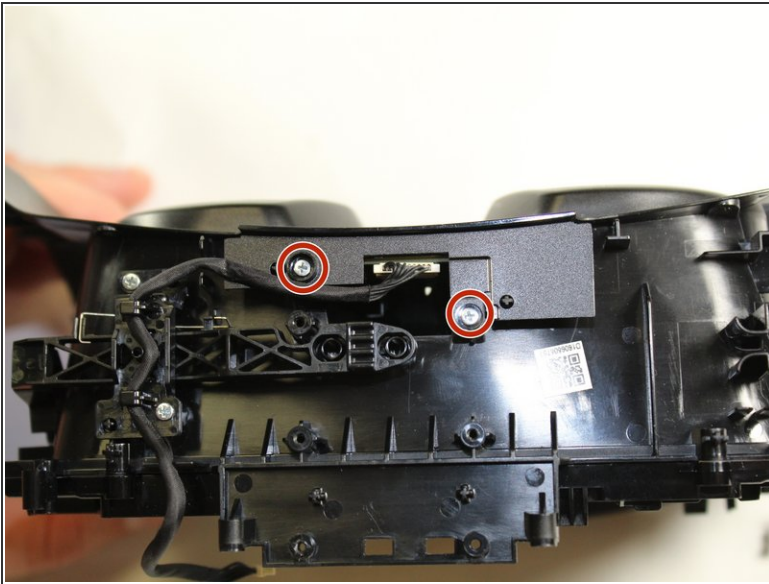
- Using a hairdryer (or heatlamp), warm the area around the lenses. This will help loosen them for removal.

Step 23



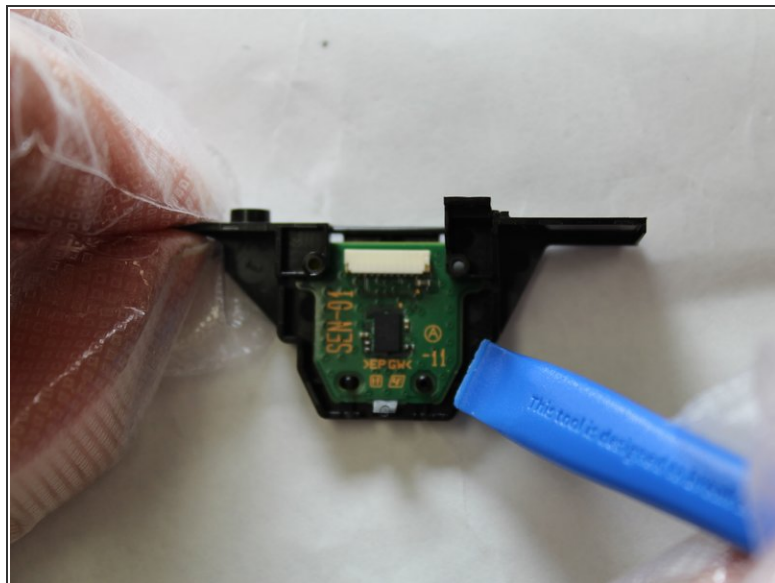
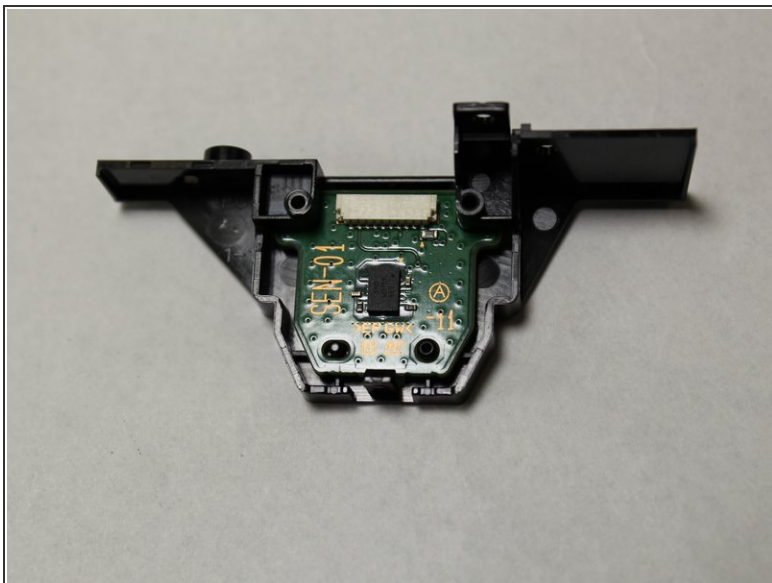
- Using a glass cloth (or any cloth with soft fibers), carefully press on the lenses until they pop out of place.

Step 24 — Infrared Range Finder



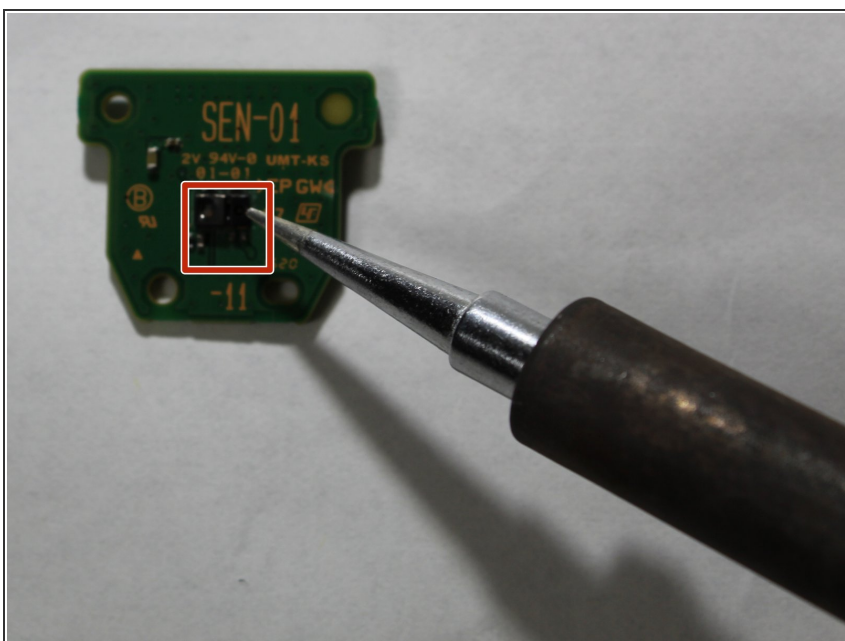
- Remove two silver 4mm screws from the bracket assembly containing IMU/infrared range finder board using a Phillips #00 screwdriver.
- Use an opening tool to pry the connector from the board.

Step 25



- Gently pry outward with an opening tool to remove the board from the bracket assembly.

Step 26



- Desolder the faulty infrared range finder from the backside of the board.

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