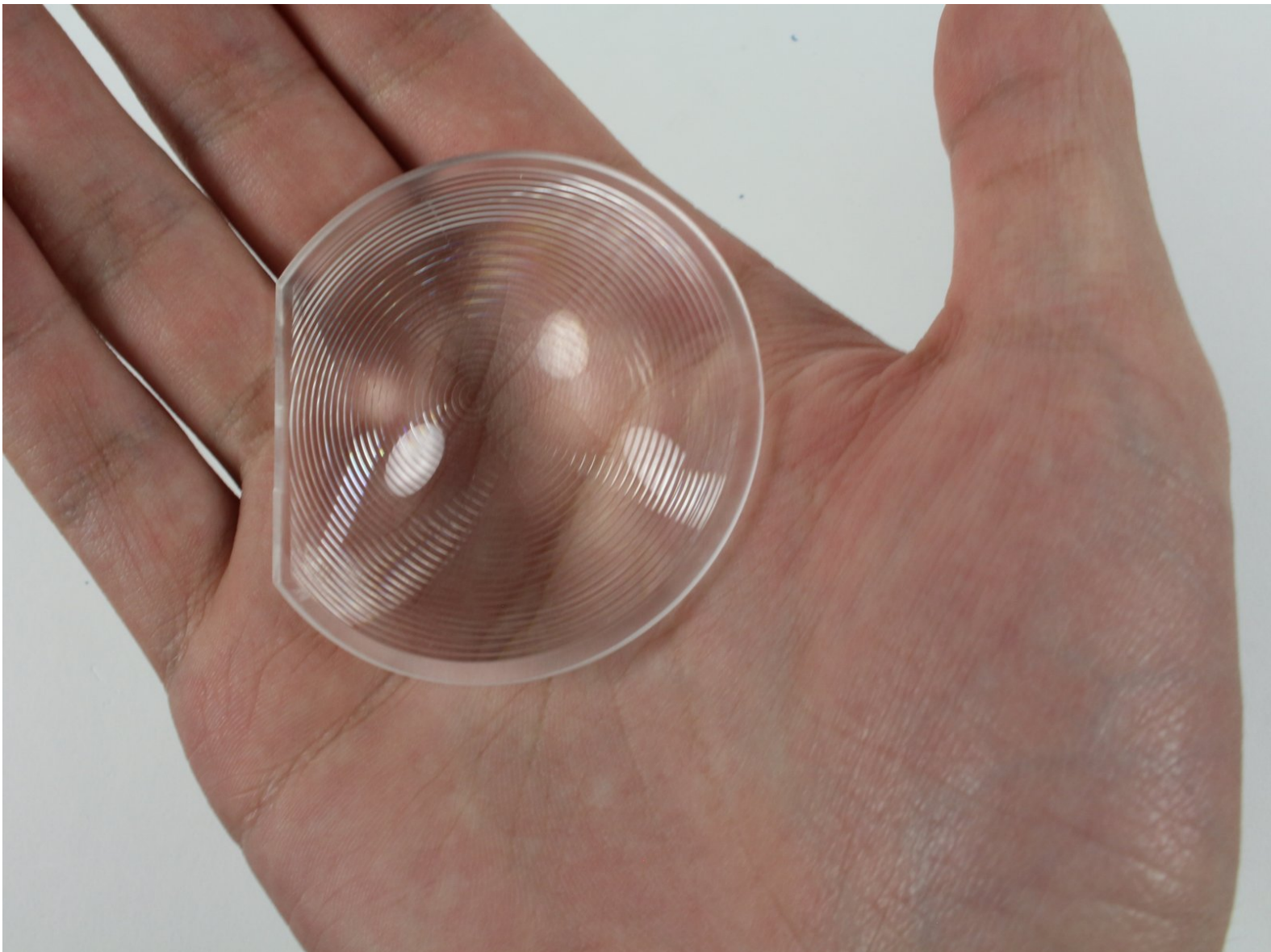




HTC Vive Lens Replacement

This guide will show you how to replace the HTC Vive's lenses.

Written By: Caleb Watts



INTRODUCTION

The HTC Vive's lenses can become scratched, cracked, or dirty with use. This guide will show you how to replace one or both of the HTC Vive lenses.

TOOLS:

- [T6 Torx Screwdriver](#) (1)
 - [Prying and Opening Tool Assortment](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
 - [Tweezers](#) (1)
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Step 1 — Straps and Cables



- Slide the HTC panel covering the cables forward, away from the Vive.
- Gently pull on each of the four connectors to remove the sound and Three-in-One cables.

Step 2



- Undo the hook and loop tape on the straps.
- Slide the ends of the straps through the hinge loops.

Step 3 — Facerest



- Pull the facerest cushion off away from the Vive, separating the hook and loop tape.

Step 4



- Use a T6 Torx Screwdriver to remove either of the two 12mm hinge screws holding the two hinges in place.
- Allow the hinge to fall away once the screw is removed.
- Repeat for the opposite side.

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Step 5



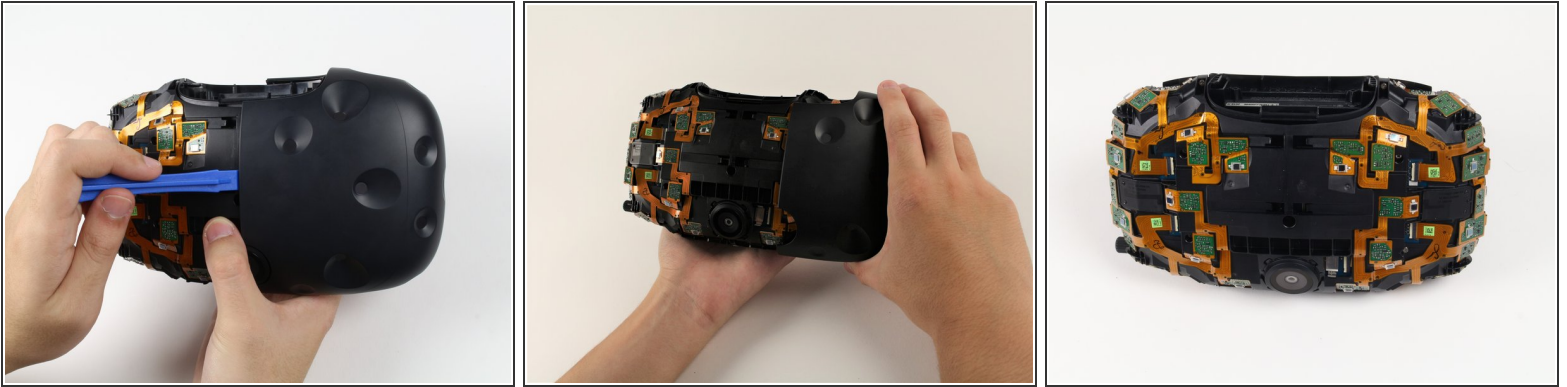
- Slide the plastic facerest away from the device.

Step 6 — Outer Shell



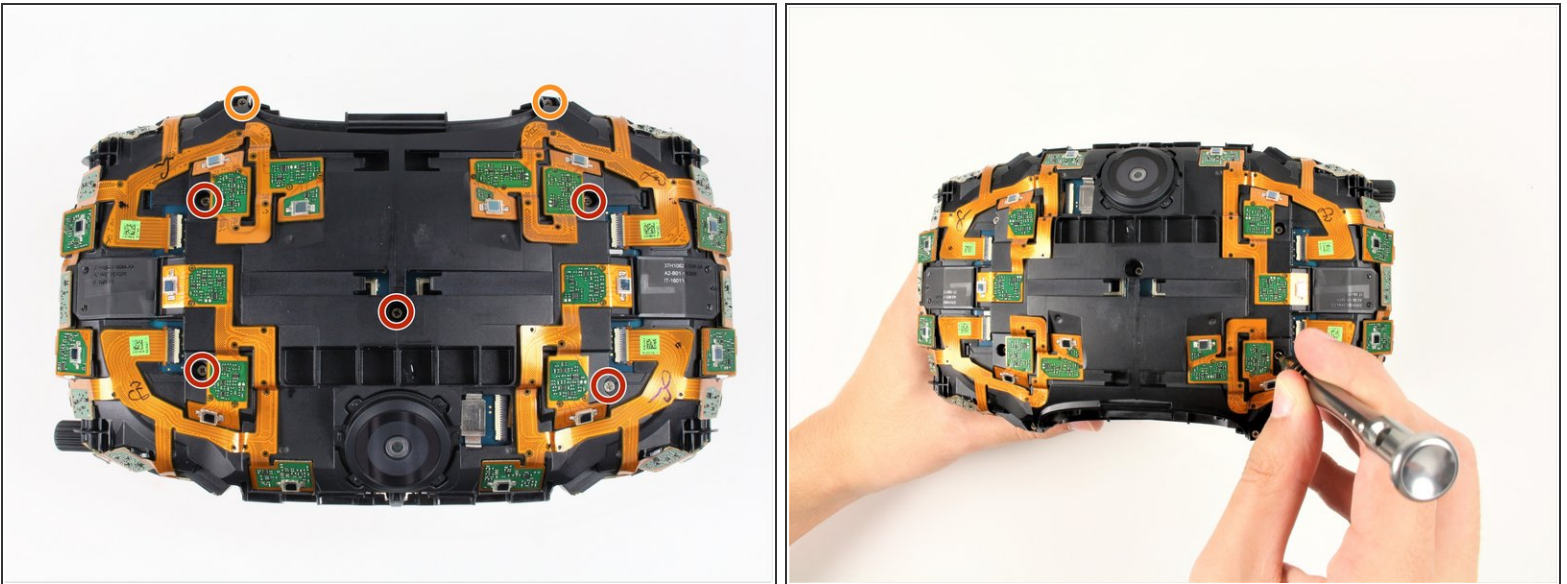
- Orient the Vive so that the camera is facing towards you and the connector ports are facing upwards.
- There are four screws you need to remove that are covered with small black stickers (two on top, two on bottom).
- Use a plastic opening tool to gently pry up the left side of the outer sheath.
 - ⓘ If the left sheath is glued down, slide your plastic opening tool along the middle seam to break the bond.
- Slide the left side of the sheath outwards.

Step 7



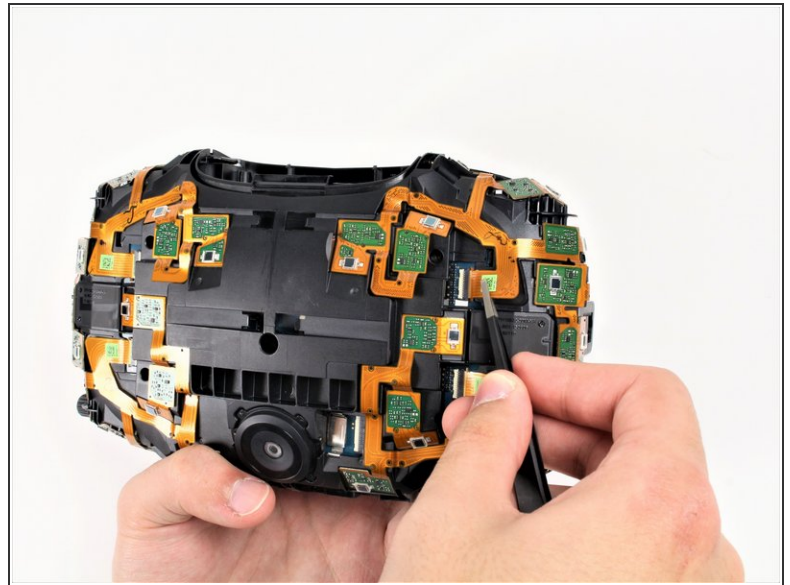
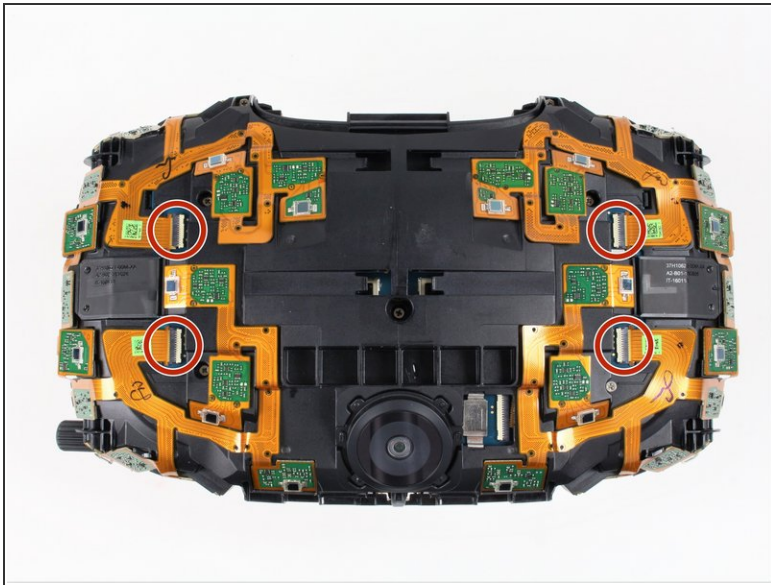
- Slide a plastic opening tool underneath the right side of the sheath to remove any remaining glue.
- Using the plastic opening tool, pry the right side of the sheath upwards slightly.
- Using your hands, slide the right side of the sheath outwards.

Step 8 — Sensor Array Assembly



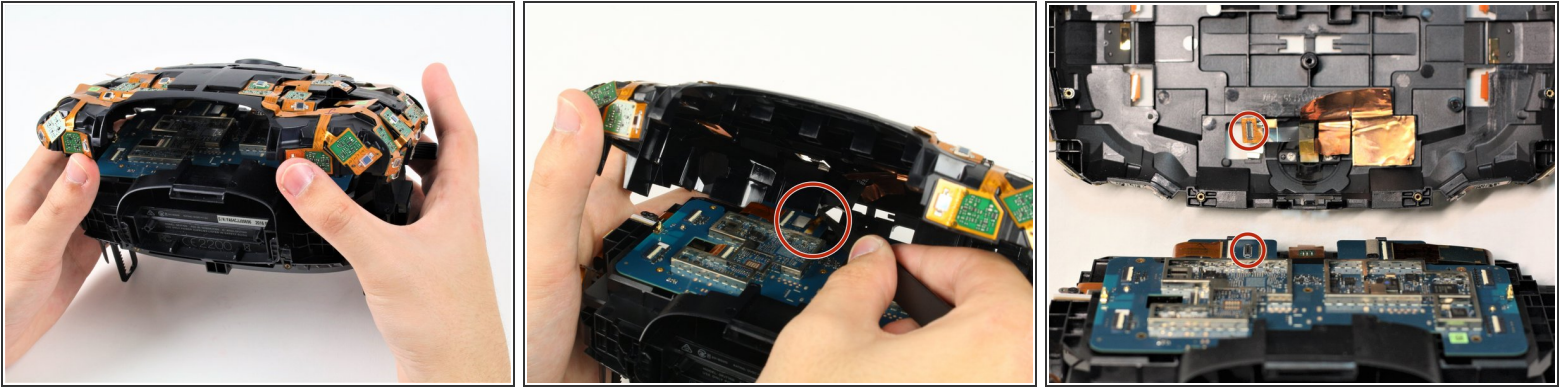
- Remove the five 4mm Philips #00 screws holding the sensor array to the motherboard.
- Remove the two 4mm Philips #00 screws holding the sensor array to the midframe.



Step 9



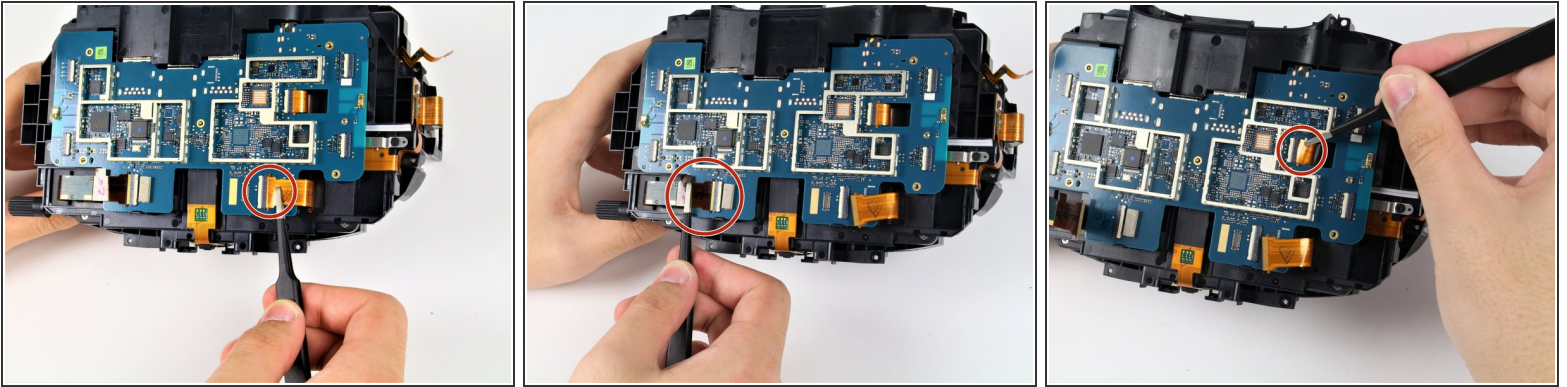
- Using a pair of ESD safe tweezers, gently pull the four ribbon cables out horizontally from the sensor array.

Step 10



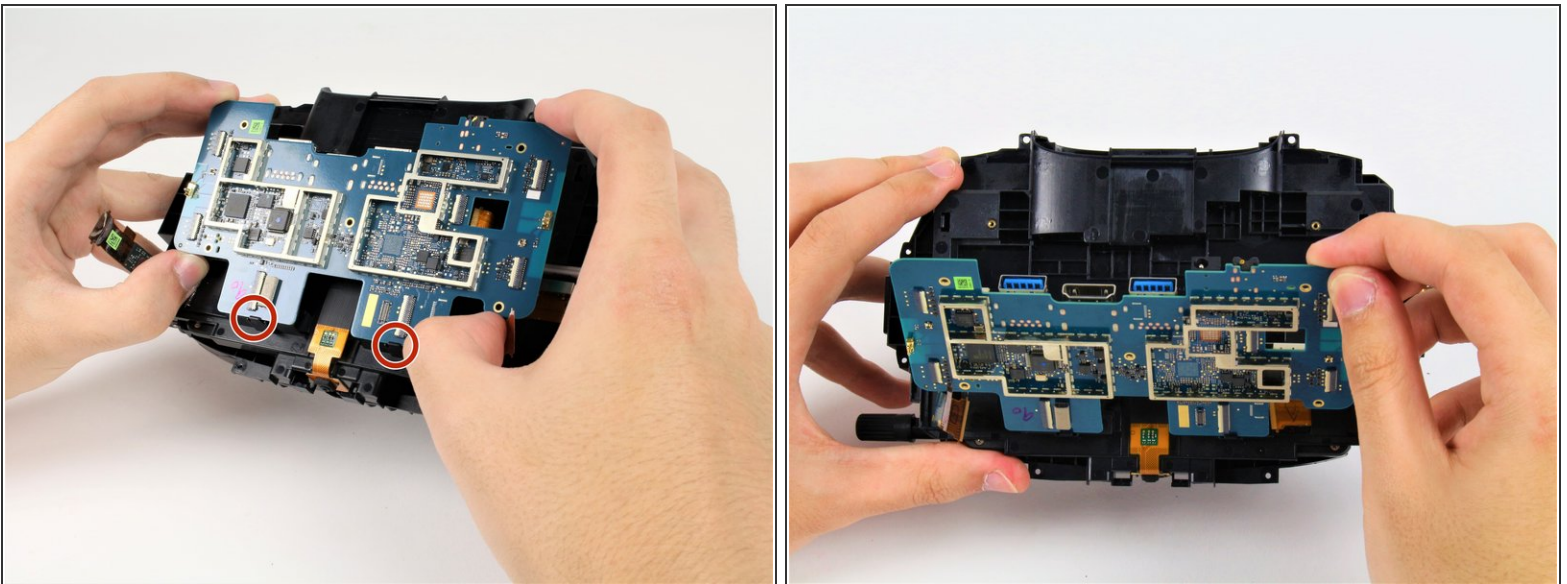
-  Be careful not to lift the sensor array too far from the rest of the device because the camera ribbon cable may tear.
- Lift the sensor array away from the rest of the Vive until the camera cable tugs back and hold it in place.
-  The camera ribbon cable must be pulled out of its socket vertically, as opposed to all other ribbon cables which slide out horizontally.
- Disconnect the camera by lifting its ribbon cable up and away from the motherboard using a pair of ESD safe tweezers.
 - Lift the sensor array upwards away from the motherboard to separate the array from the device fully.


Step 11 — Motherboard



- Loosen the three ribbon cables that are attached to the motherboard by grabbing the tabs on the side of the ribbon cables' connectors and pulling gently outwards.
- Fully detach the same three ribbon cables by grabbing each cable with tweezers and sliding them outwards horizontally.

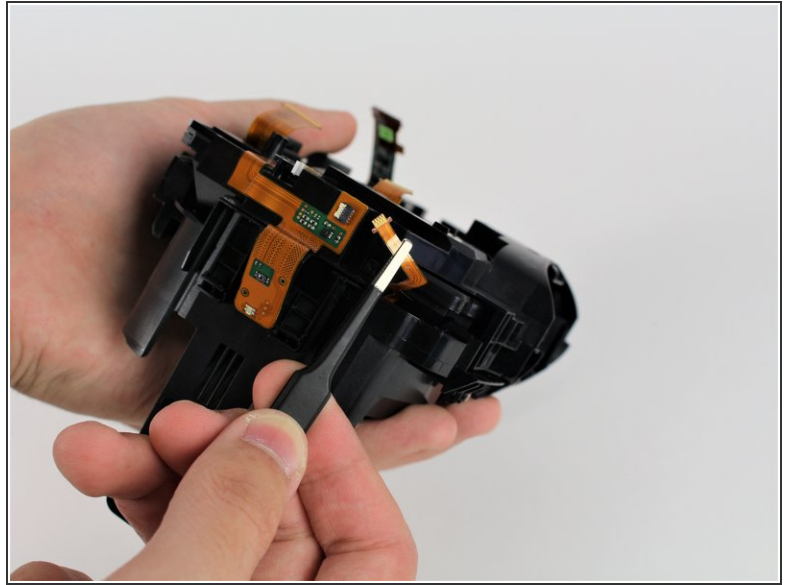
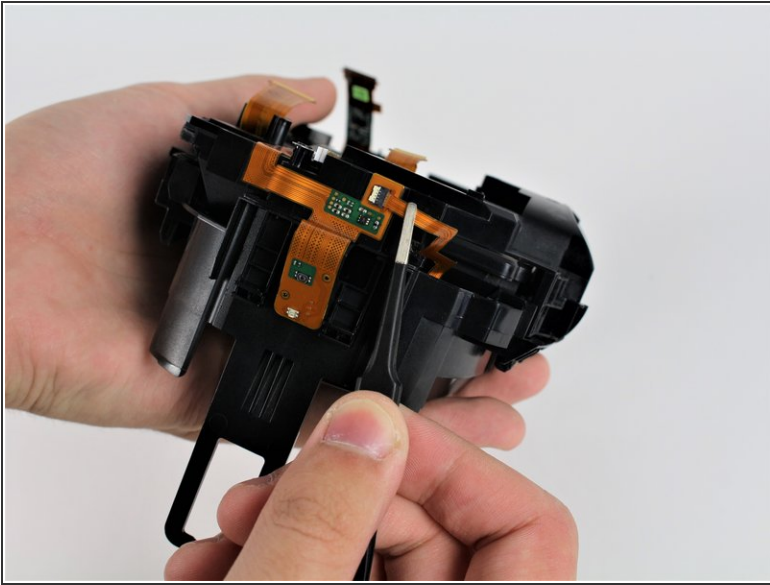
Step 12



 The bottom of the motherboard is secured by two hooks, indicated in the first photo. Do not pull the motherboard directly outwards, as doing so can cause damage.

- Pivot the top of the motherboard outwards until it has cleared the top of the plastic housing.
- Pull the motherboard up and away from the plastic housing, away from the two hooks.

Step 13 — Midframe



- Grab the tabs on the side of the ribbon cable's connector and pull gently outwards to loosen it.
- Remove the ribbon cable for the power button by grabbing the cable with tweezers and sliding it outwards horizontally.
- ⓘ The ribbon cable for the power button is located on the side of the device opposite from the focus knob.

Step 14



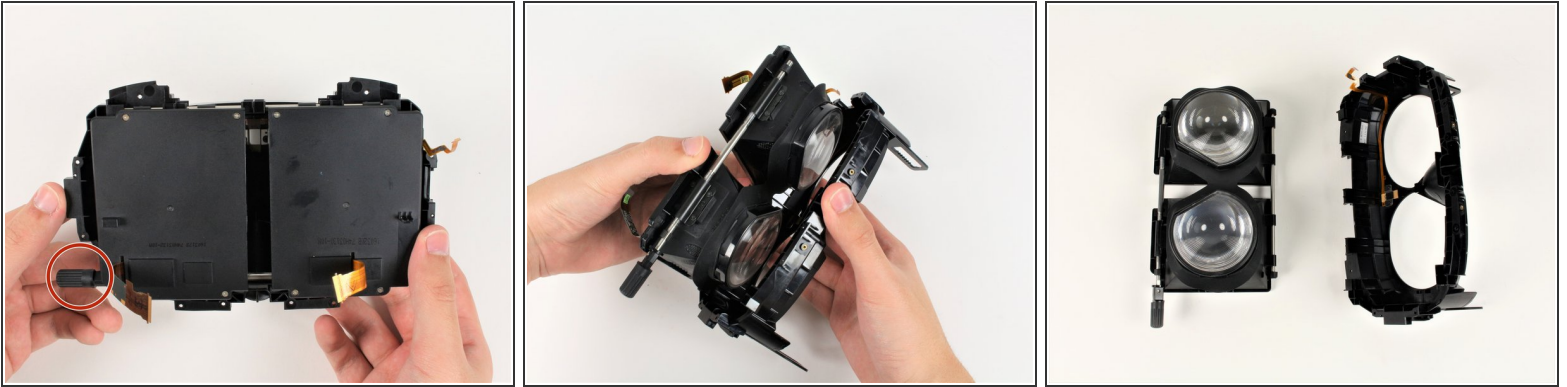
- Remove the four 4mm #00 Philips screws by the nose rest holding the midframe to the eyepiece assembly.
- Remove the four 4mm #00 Philips screws on the top of the device, directly across from the four by the nose.

Step 15



- With one hand on the midframe and the other on the eyepiece assembly, pull the two parts away from each other.

Step 16 — Lens & OLED Display Assembly



- Pivot the bottom rod attached to the eyepieces outwards from the facerest to free the eyepieces.
- i** The bottom rod is the rod that the focus knob is attached to.
- Pull facerest from the eyepieces to separate the parts.

Step 17



- Pull off the rubber liner between both eyepieces.

Step 18



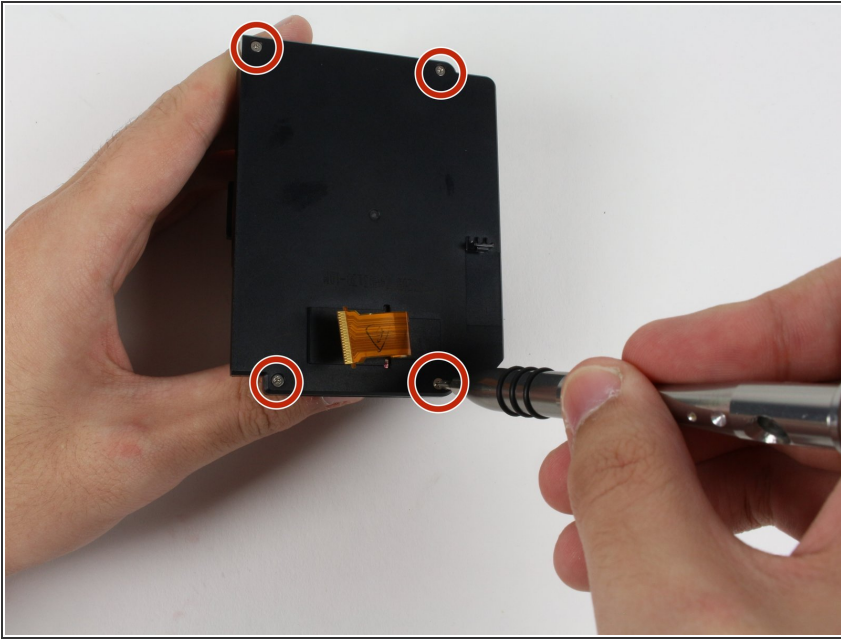
- Pull one of the rubber ends off the top rod.
- i** The top rod is the rod that does not have the focus knob attached to it.
- Pulling from the other end of the rod, slide the top rod out.


Step 19



- Remove the four 3mm #00 Philips screws from each eyepiece, removing eight screws total.
- i** The eyepieces will detach from the bottom rod once the screws are removed.

Step 20 — OLED Screen



 The screws are very close to the screen. Applying too much pressure to the screws can stress or crack the screen. Be careful when unscrewing and screwing around the screen.

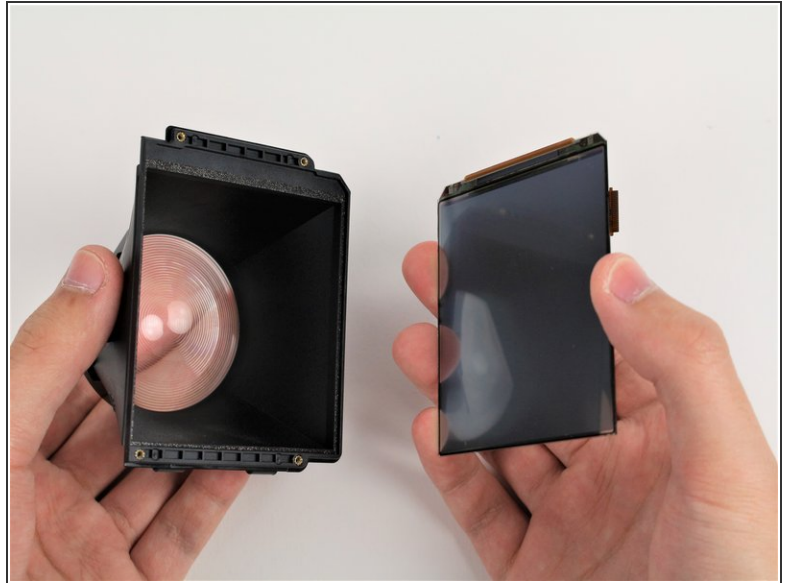
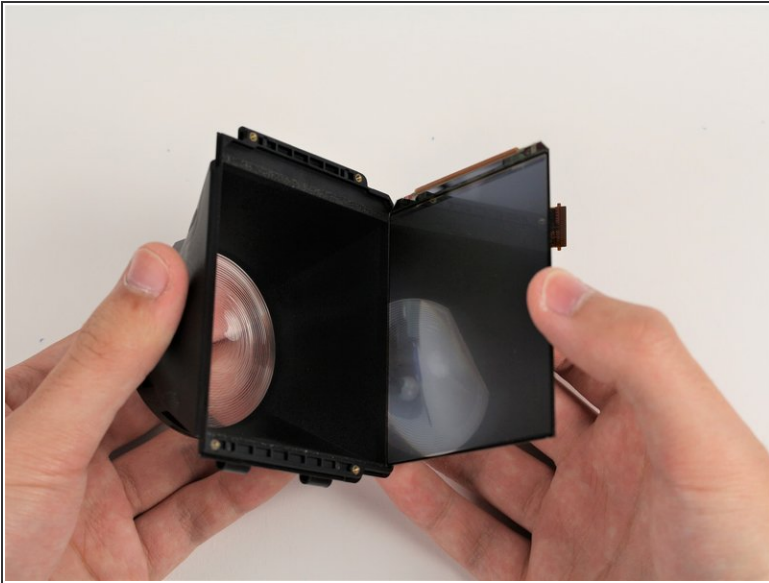
- Remove the four 2mm #00 Philips head screws holding the screen in place from the eyepiece assembly.

Step 21



- Use a plastic opening tool to gently pry around the seam between the eyepiece housing and the screen.
- Gently pull the screen cover away from the eyepiece housing, threading the ribbon cable through the hole.

Step 22



- Remove the screen from the eyepiece housing by pulling the two pieces away from each other.

Step 23 — Lens



- Hold your hand in front of the lens and be ready to catch the lens during its removal.
- From the inside of the black plastic housing, push gently around the edges of the lens to remove it.
- ⓘ Glue holds the lens in place; pushing around the edges will gradually loosen and break the bond. After breaking the bond, the lens will fall forward.

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