



# HTC Vive Lens and OLED Assembly Replacement

In this guide, we will replace the HTC Vive's lens and OLED display assembly.

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## INTRODUCTION

This guide will show you how to replace the HTC Vive's individual lens and OLED assemblies. Each assembly includes the lenses, lens housing, and OLED screen.

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### 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



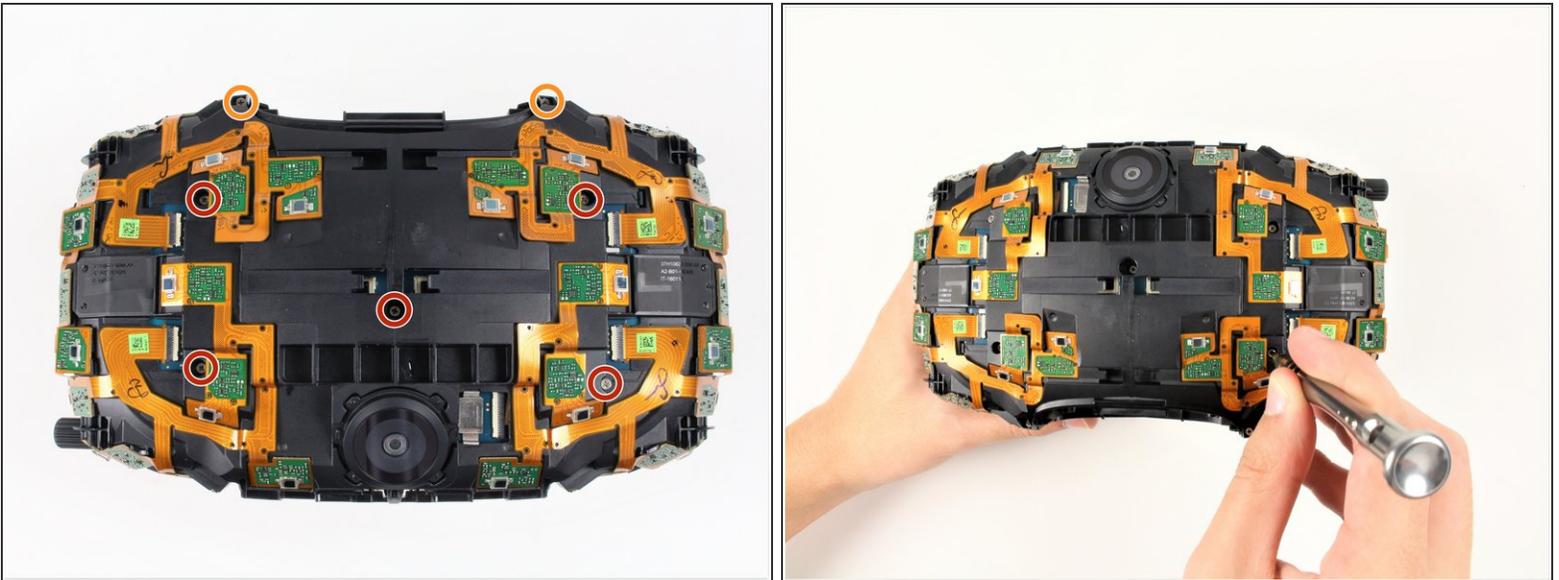
- Orient the Vive so that the camera is facing towards you and the connector ports are facing upwards.
- There are four screws you need to remove that are covered with small black stickers (two on top, two on bottom).
- Use a plastic opening tool to gently pry up the left side of the outer sheath.
 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



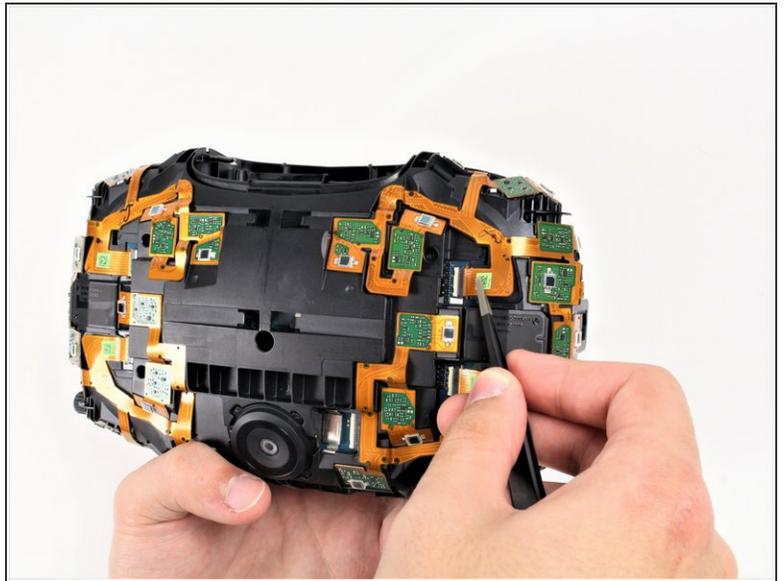
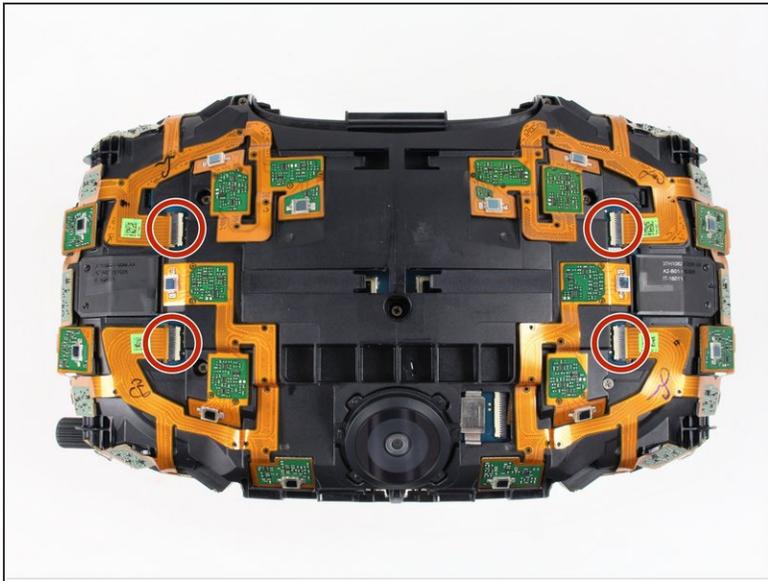
- Slide a plastic opening tool underneath the right side of the sheath to remove any remaining glue.
- Using the plastic opening tool, pry the right side of the sheath upwards slightly.
- Using your hands, slide the right side of the sheath outwards.

## Step 8 — Sensor Array Assembly



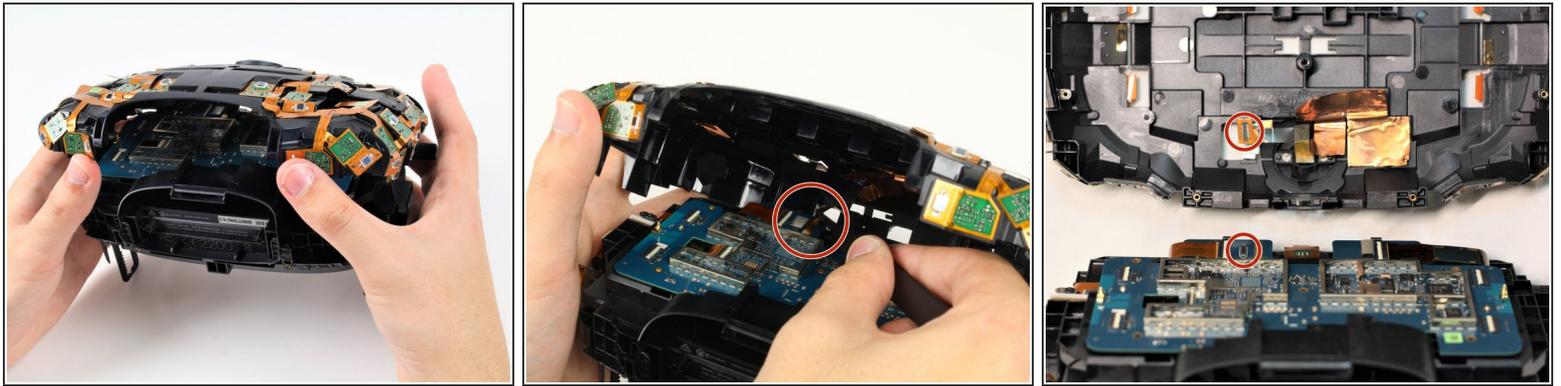
- Remove the five 4mm Philips #00 screws holding the sensor array to the motherboard.
- Remove the two 4mm Philips #00 screws holding the sensor array to the midframe.

## Step 9



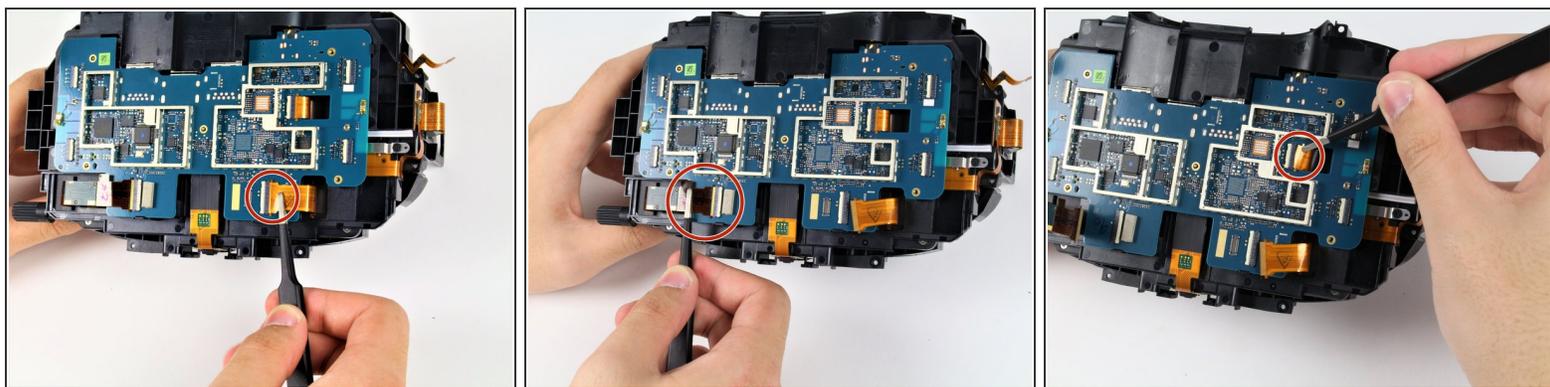
- Using a pair of ESD safe tweezers, gently pull the four ribbon cables out horizontally from the sensor array.

## Step 10



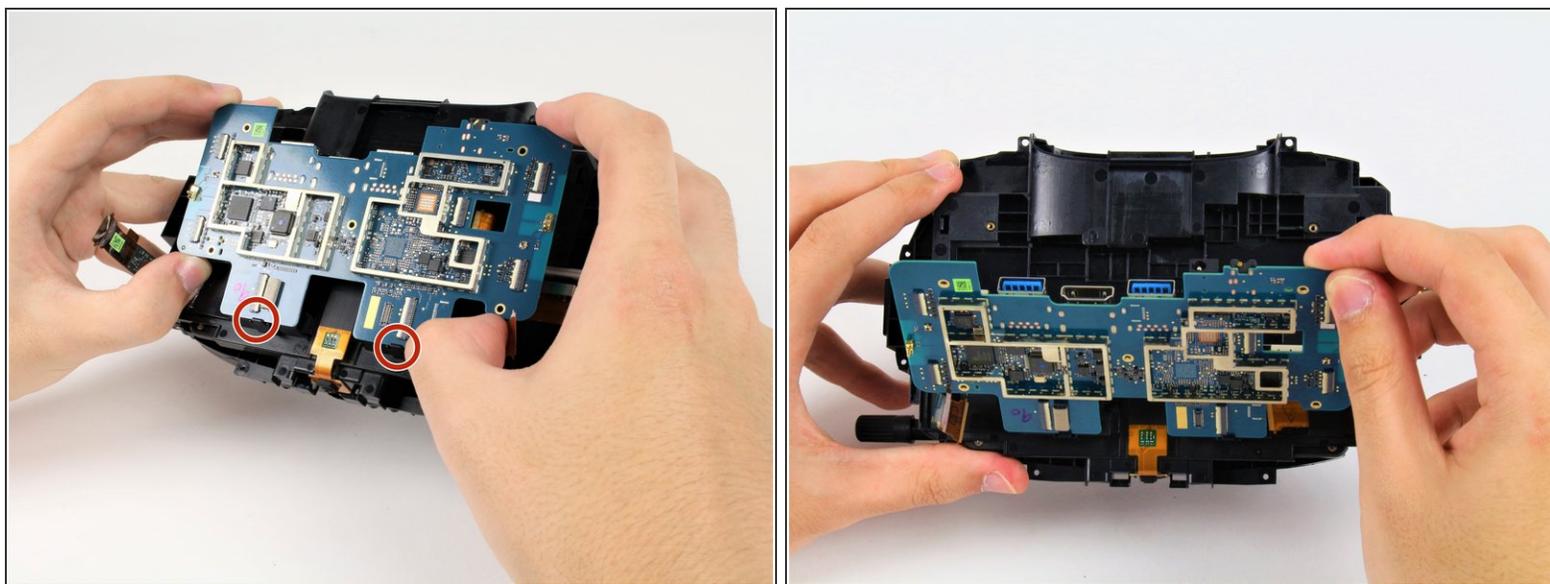
- ⚠ Be careful not to lift the sensor array too far from the rest of the device because the camera ribbon cable may tear.
- Lift the sensor array away from the rest of the Vive until the camera cable tugs back and hold it in place.
- ⚠ The camera ribbon cable must be pulled out of its socket vertically, 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.

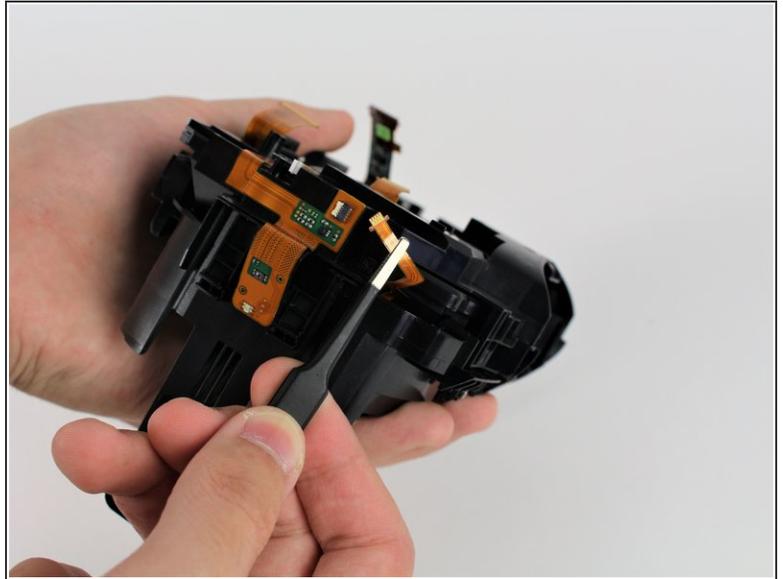
## Step 12



**⚠** 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



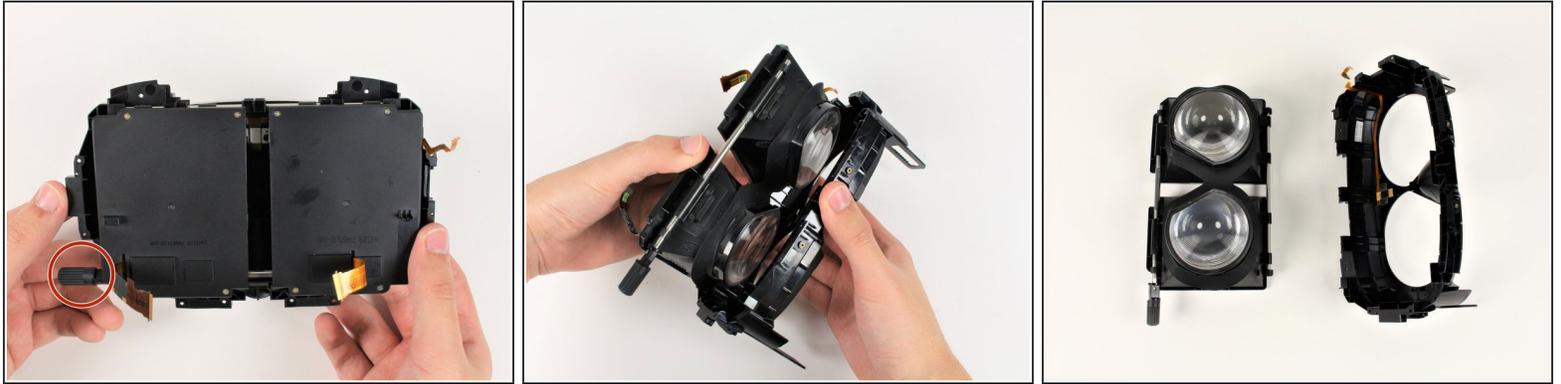
- Remove the four 4mm #00 Philips screws by the nose rest holding the midframe to the eyepiece assembly.
- Remove the four 4mm #00 Philips screws on the top of the device, directly across from the four by the nose.

## 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.
- ⓘ 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.
- ⓘ 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.
- ⓘ The eyepieces will detach from the bottom rod once the screws are removed.

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