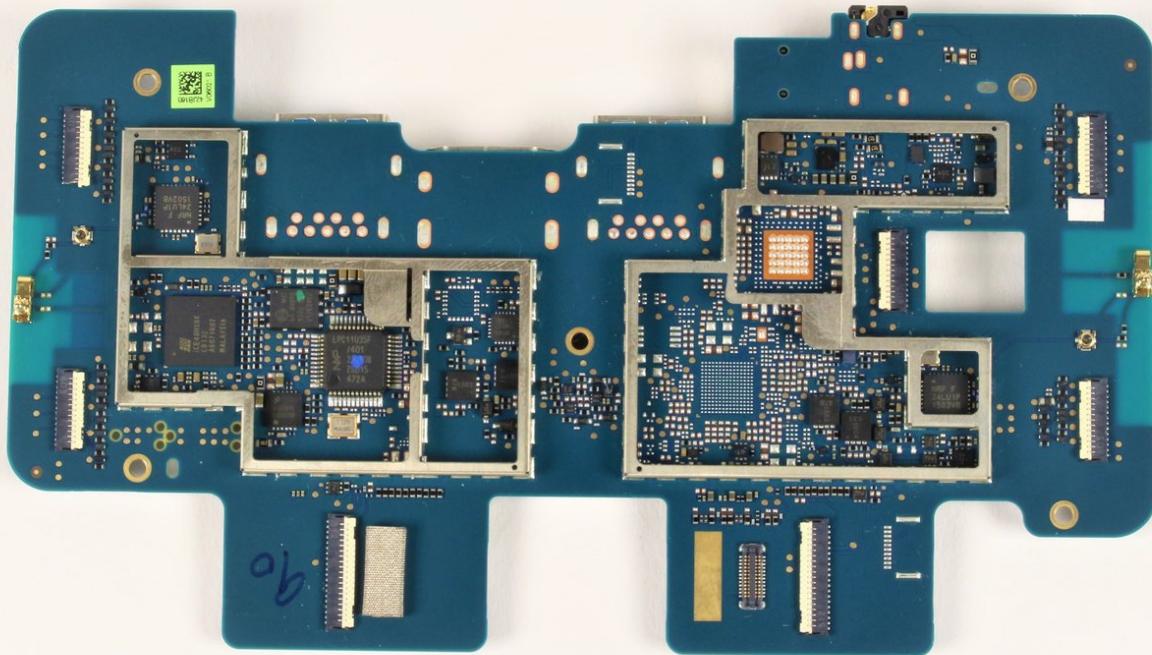




HTC Vive Motherboard Replacement

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

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INTRODUCTION

The HTC Vive's motherboard can break due to electrical shorts, water damage, or factory defects. This guide will show you how to replace the motherboard. If your Vive is still broken after finishing this guide, see the [HTC Vive Troubleshooting Guide](#) for additional solutions.

TOOLS:

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

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



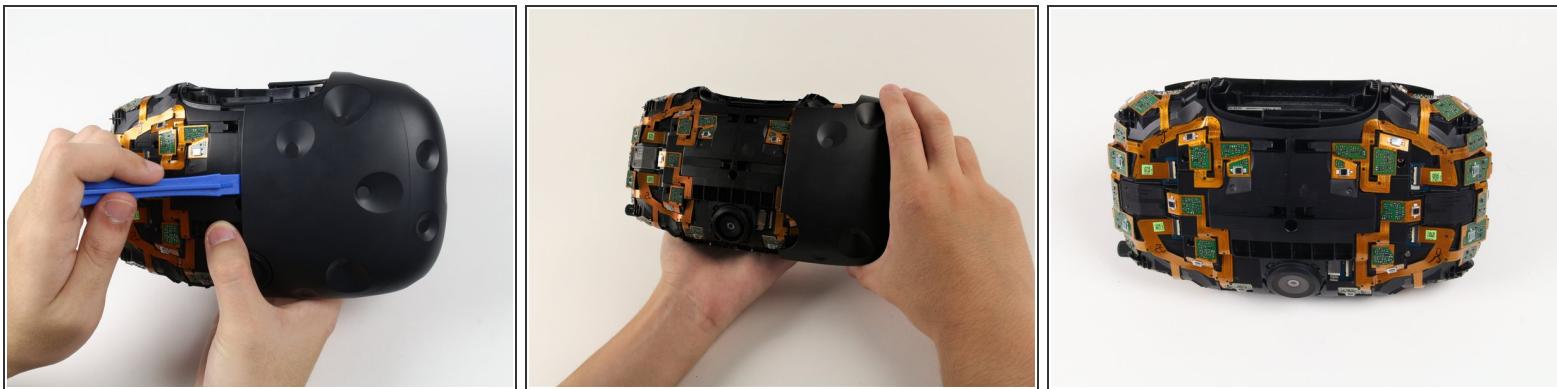
- Slide the plastic facerest away from the device.

Step 6 — Outer Shell



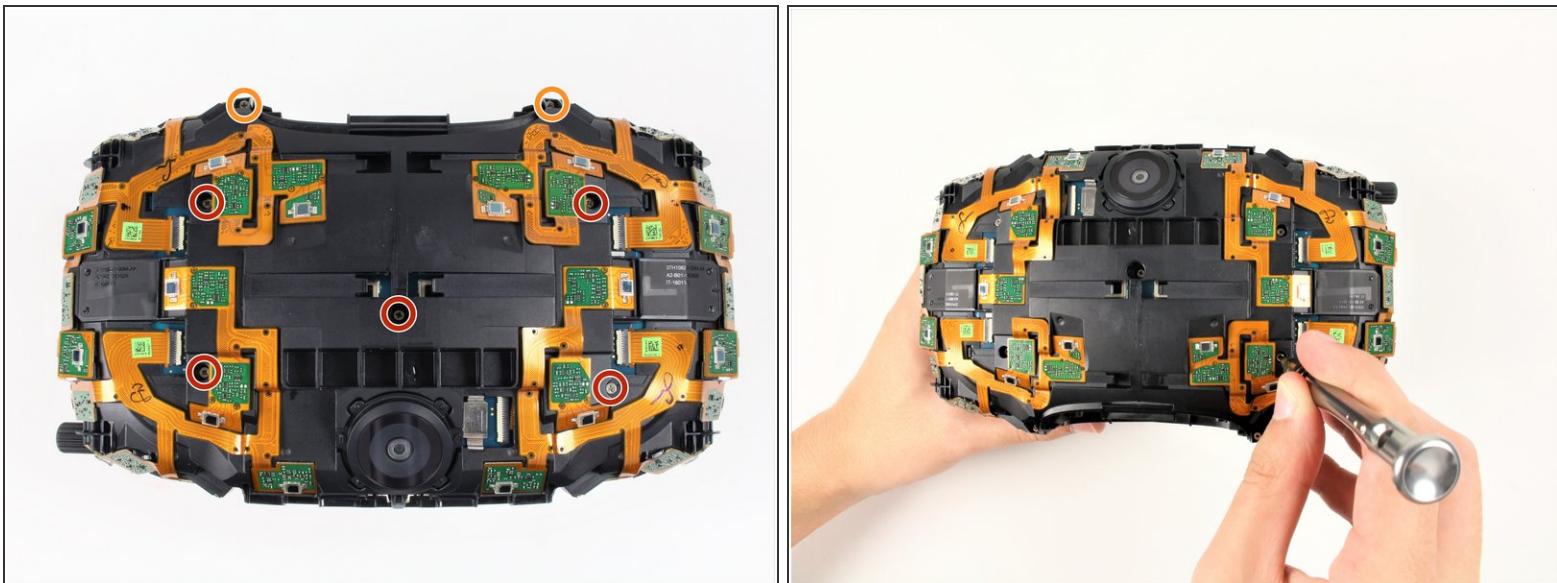
- Orient the Vive so that the camera is facing towards you and the connector ports are facing upwards.
- There are four screws you need to remove that are covered with small black stickers (two on top, two on bottom).
- Use a plastic opening tool to gently pry up the left side of the outer sheath.
 -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



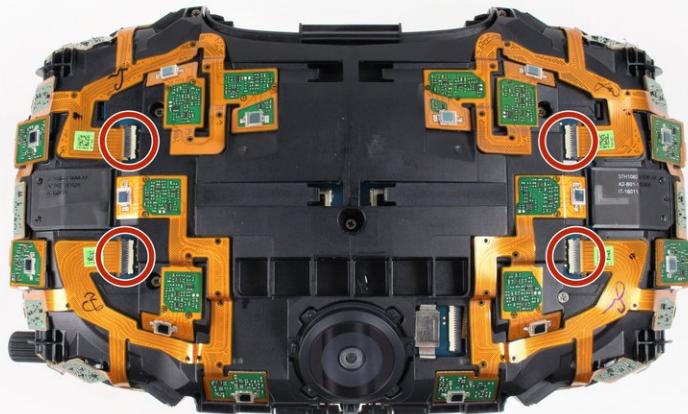
- Slide a plastic opening tool underneath the right side of the sheath to remove any remaining glue.
- Using the plastic opening tool, pry the right side of the sheath upwards slightly.
- Using your hands, slide the right side of the sheath outwards.

Step 8 — Sensor Array Assembly



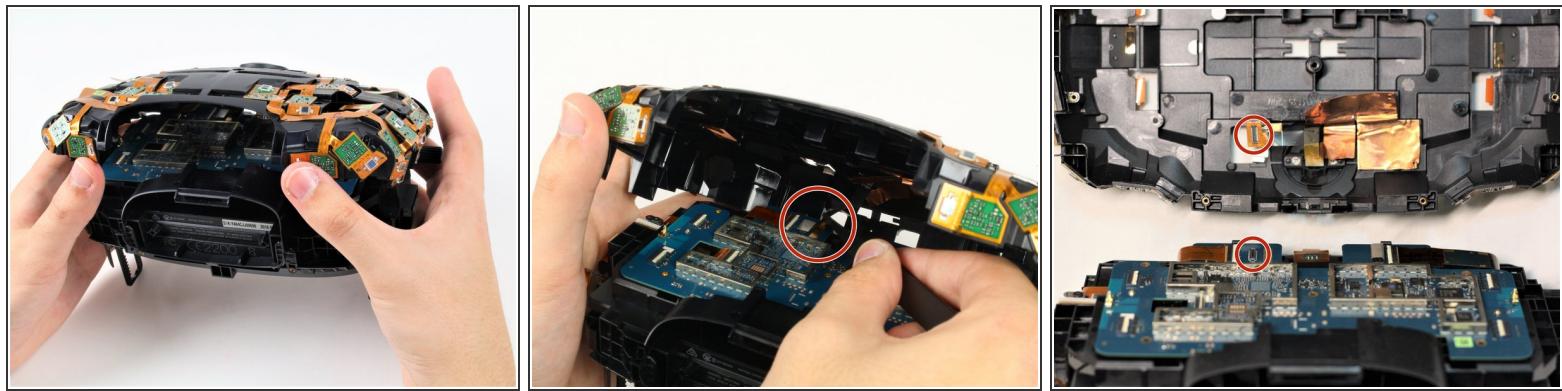
- Remove the five 4mm Philips #00 screws holding the sensor array to the motherboard.
- Remove the two 4mm Philips #00 screws holding the sensor array to the midframe.

Step 9



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

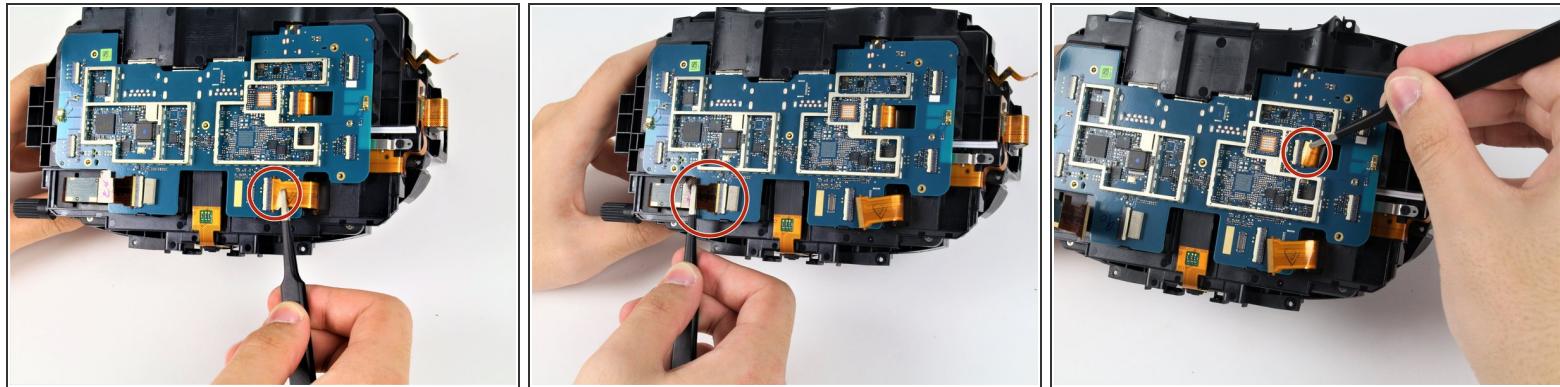
Step 10



⚠ Be careful not to lift the sensor array too far from the rest of the device because the camera ribbon cable may tear.

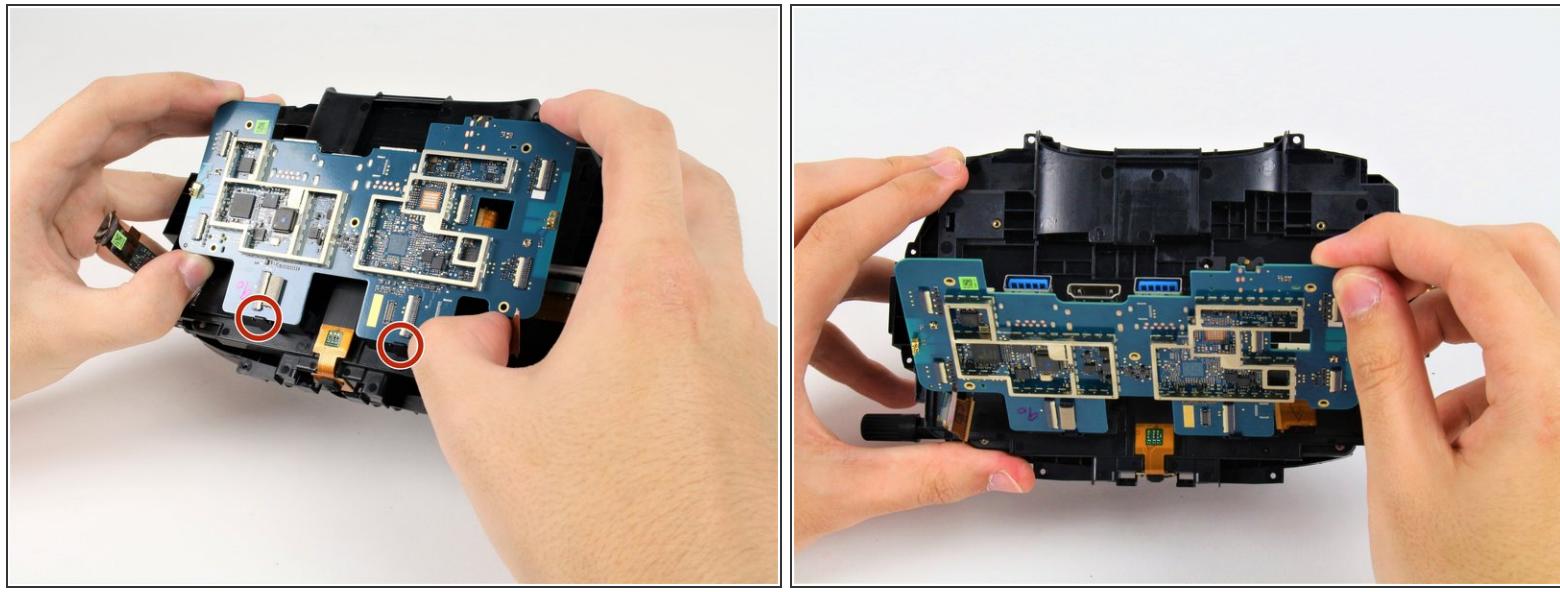
- Lift the sensor array away from the rest of the Vive until the camera cable tugs back and hold it in place.
- ⚠** The camera ribbon cable must be pulled out of its socket vertically, as opposed to all other ribbon cables which slide out horizontally.
- Disconnect the camera by lifting its ribbon cable 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.

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