# Required Components

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| The 3D printed parts required to build this device. | **BOM**   1. Case 2. Face 3. Trigger Arm 4. Trigger Shaft 5. Trigger Link 6. Trigger Mount 7. Button Tails 8. Button Faces |

# Required Tools

* Super Glue
* Tape
* Zip Tie
* Safety Knife

# Required Personal Protective Equipment (PPE)

* Safety Glasses

**Note:** A PS4 controller is not required for assembly but can be seen in some assembly photos.

# Assembly Instructions

## Step 1: Feeding Button Tails

Feed each “Button Tail” into its corresponding hole by matching the lettering as shown below (no swapping allowed). Hold both sides of the “Face” and feed it back and forth as needed. Progress until it shows up on the other side and sticks out about 1 mm. The tail should act as a spring when pushed. If a tunnel is too rough or a “Button Tail” breaks off inside, progress to Step 1A.

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| The face of the case with labelled inserts . A hand inserting the button tales into the face.  C3  C2  C1  L3  L2  L1  L4  R4  R2  R1 |

## Step 1A: Fixing a Plugged Tunnel

If you get stuck on a tunnel and/or a “Button Tail” looks damaged, use a zip tie to drive through the tunnel and clear the blockage. Feed it from both sides and move it back and forth. Once resolved, proceed back to Step 1.

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| A broken button tail that must be replaced.  A zip tie being used to clear a blocked button tail tunnel.  R3 |

## Step 2: Installing Button Faces

Glue each “Button Face” to its corresponding “Button Tail.” The tabs on the top of the Button Tails should fit flush inside the Button Faces. Push together until the glue dries.

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| Super gluing the button faces onto the button tails.All the button faces installed onto their corresponding button tails resembling a completed controller layout. |

## Step 3: Assembling the Triggers

Set all parts as the shown in the first picture below. Use the larger half of the “Trigger Link” to connect the “Trigger Arm” and “Trigger Mount” for each side. Insert the smaller half of the “Trigger Link” into the larger half to secure the pieces together. The two halves of the link may need to be glued together if the link wants to separate.

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| The parts necessary for building the trigger assembly. The triggers built and ready to be installed onto the case. |

## Step 5: Mounting the Trigger to the Case

Slide the controller mounts into the slot on the back of the case as shown below. Once installed, fit the “Face” onto the top of the case.

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| The first step for installed the triggers. The second step for installed the triggers. |

## Step 6: Mounting the Trigger to the Top Face

Attach the “Trigger Arms” to the sides of the “Face” by feeding the “Trigger Shaft” through the arms and into the side hole of the Face. The Trigger Shaft must seat in all the way and tape can be used use to properly secure it as shown below. This part should be kept removable, so do not use glue.

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| The third step for installed the triggers. The final step for installing the triggers. |

## Assembly Finished

The device is now fully assembled. Follow user guide for steps to install the controller and joysticks.