

# ProLamp Construction Manual



## 0. Parts List

### 3D Printed Parts:

1x Head - Beamer Mount  
1x Head - Cam Arm  
1x Head - Cam Mount  
1x Shade - Lower Part  
1x Shade - Upper Part  
1x Socket - Bottom Cover  
1x Socket - Mid Cover  
1x Socket - Upper Cover  
2x Socket - Joint  
1x Socket - Button Holder  
1x Upper Arm - Weight Cover  
2x Upper Arm - Channel Cover  
2x Upper Arm - Main Part Split\_1  
2x Upper Arm - Main Part Split\_2  
2x Lower Arm - Channel Cover  
2x Lower Arm - Main Part

### Devices:

1x LattePanda 3 Delta (including power supply)  
1x Optoma ML1050ST+ (including power supply)  
1x IPEVO V4K PRO document camera

### Cables and Electronics:

1x 1.5m HDMI Cable  
1x Pushbutton with Cap (12mm Socket)  
1x JST PH 2.0 Connector with Cable

### Additional Hardware:

1x Screw M2.5x10mm  
1x Screw 1/4" (tripod thread)  
  
4x Distance Bolt M3x15mm (included with the LattePanda)  
4x Screw M3x5mm (included with the LattePanda)  
4x Screw M3x10mm  
6x Screw M3x30mm  
6x Nut M3 (2.4mm height)  
  
4x Screw M4x16mm  
3x Screw M4x20mm  
3x Screw M4x25mm  
6x Screw M4x30mm  
1x Threaded Rod M4x80mm  
11x Nut M4  
5x Dome Nut M4  
  
6x Compression Spring 12mm x 9mm x 0.75 (diameter x height x wire diameter)  
  
2x 200g Weight (e.g., big washers, or lead cord)  
1x 400g Weight (e.g., big washers, or lead cord)

# 1. Socket Preparations

A

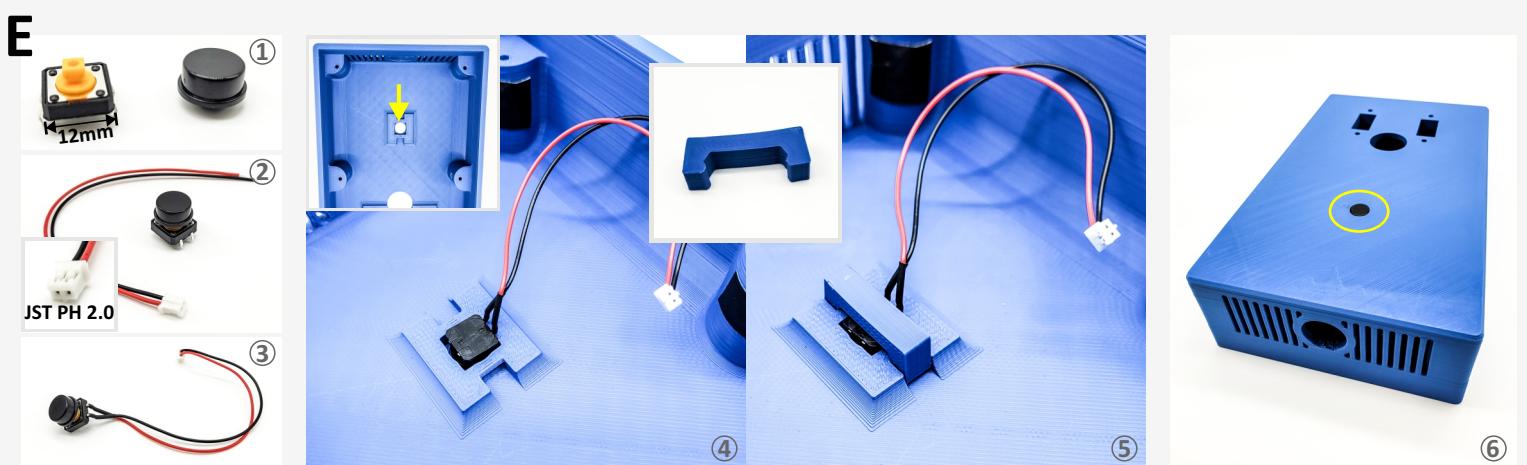
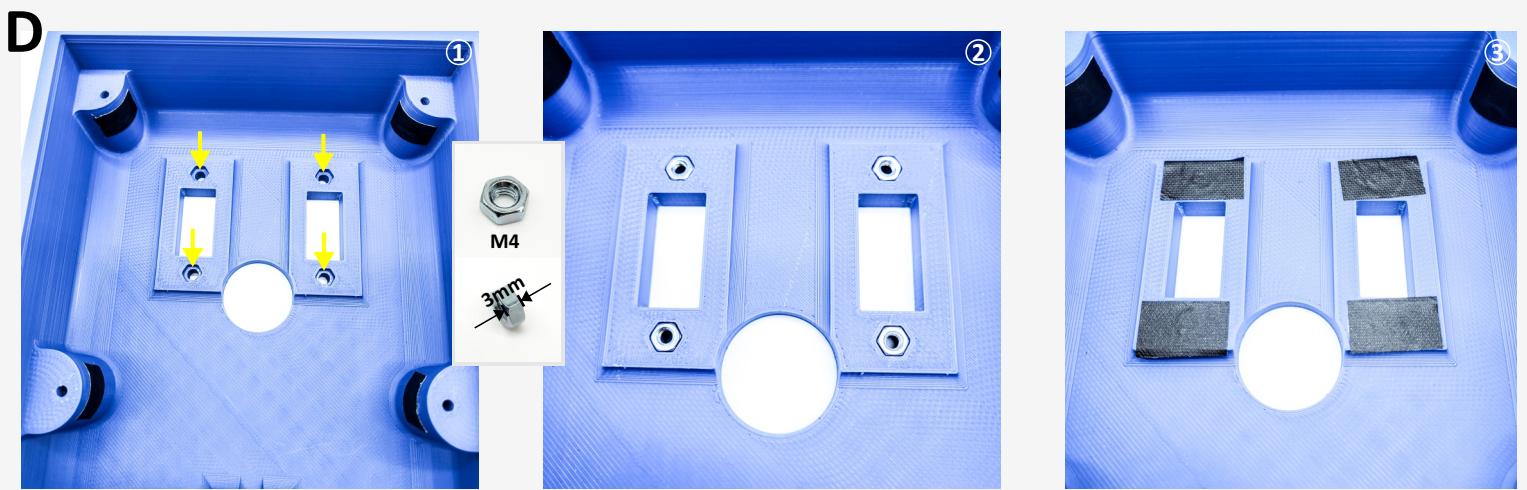


B

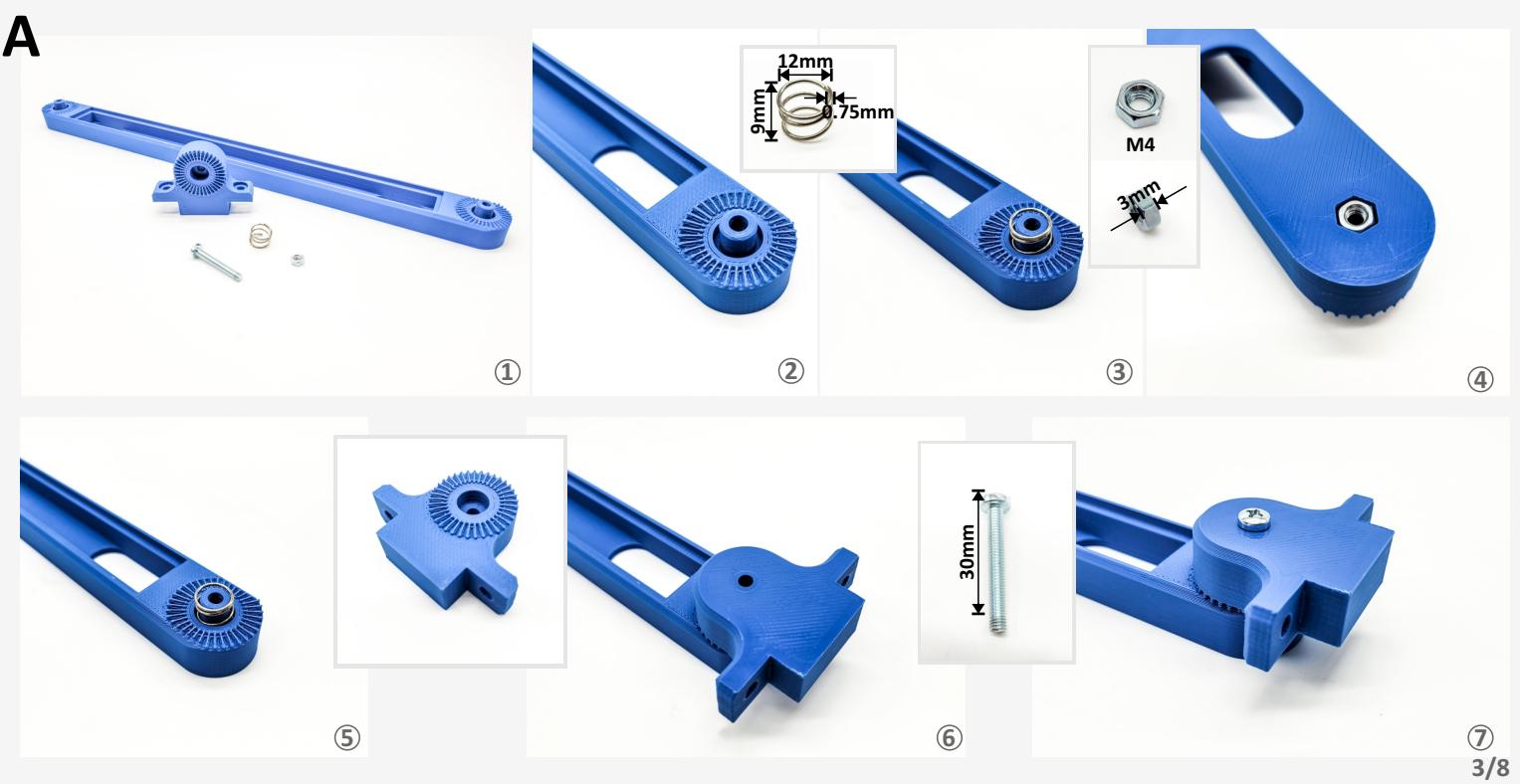


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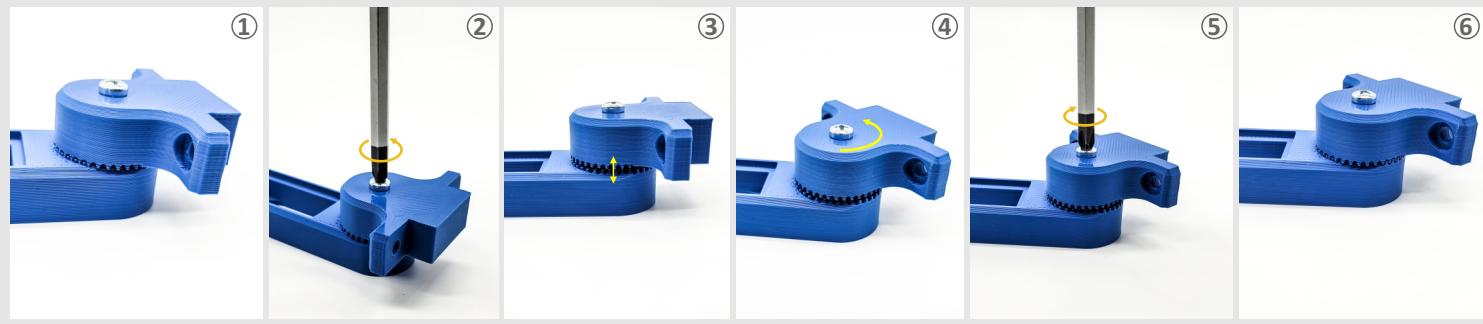




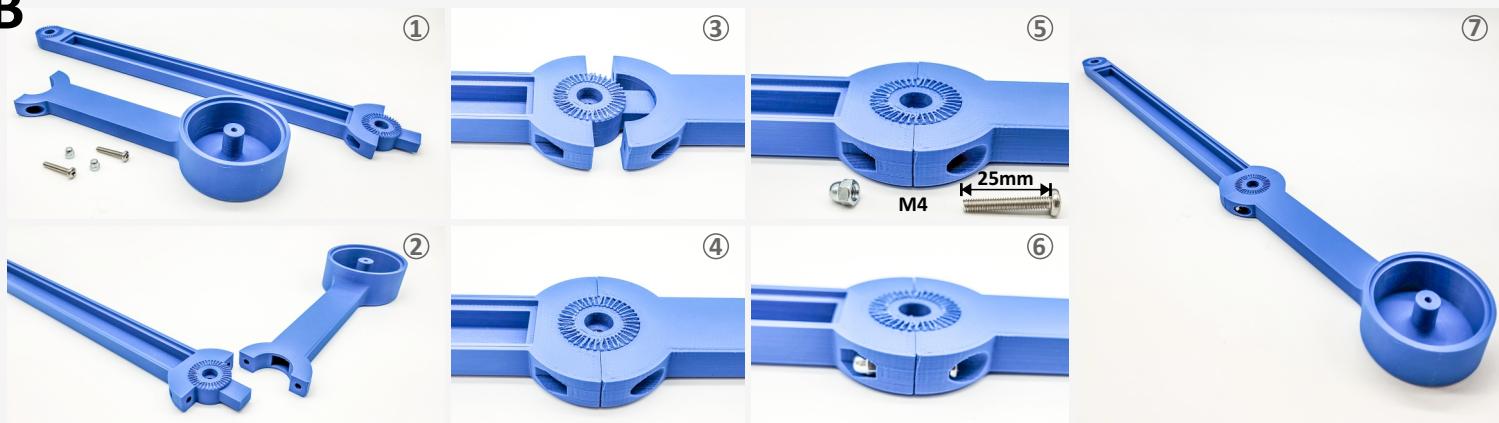
## 2. Building the Arms



# How to Adjust the Ratchet Joints



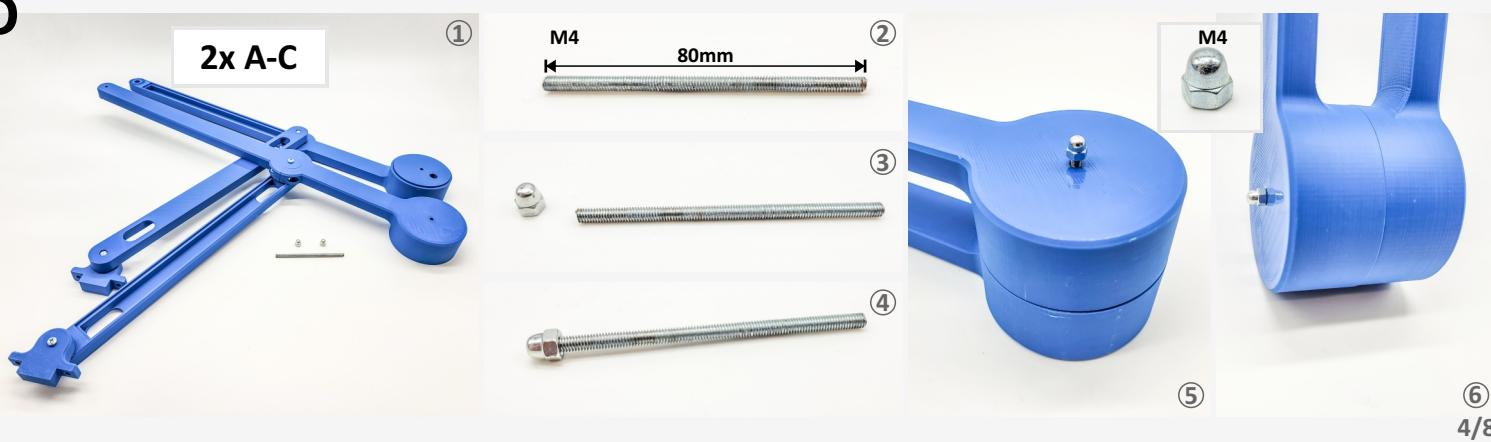
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### 3. Preparing the Head

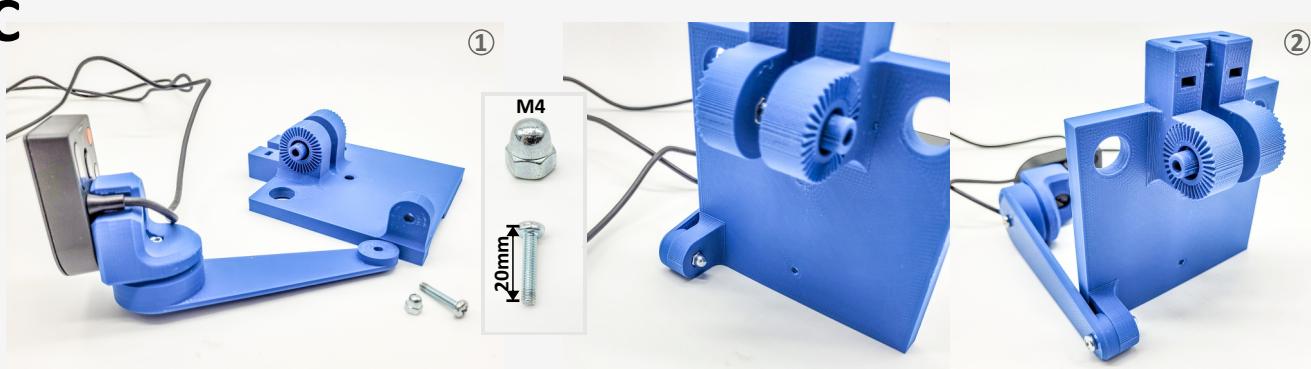
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### 4. Mount the Head to the Arms

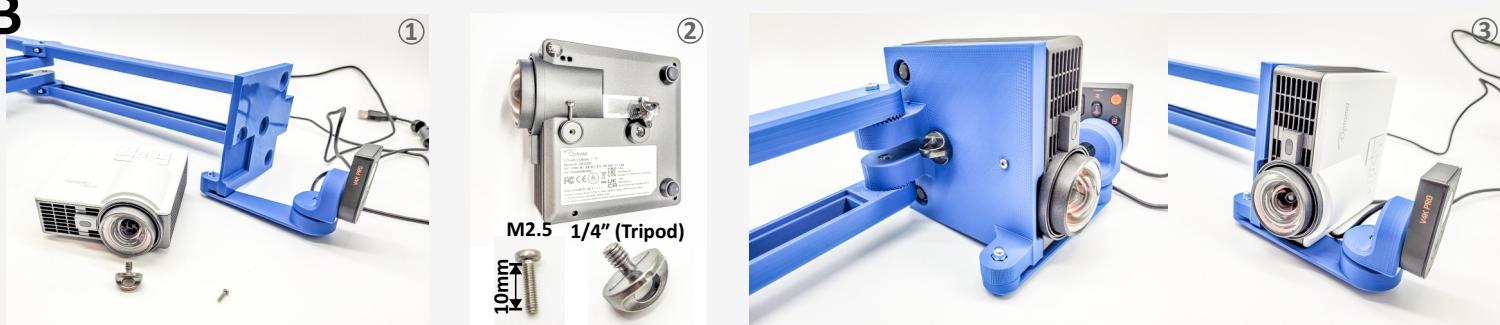


## 5. Further Assembly

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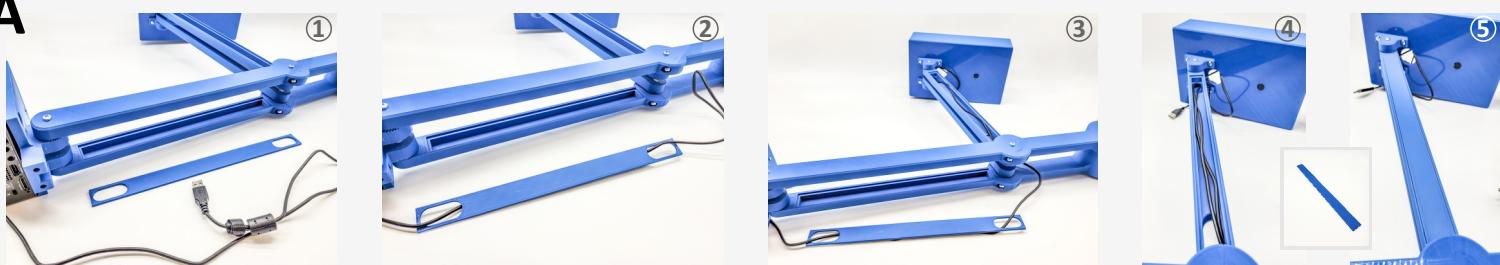


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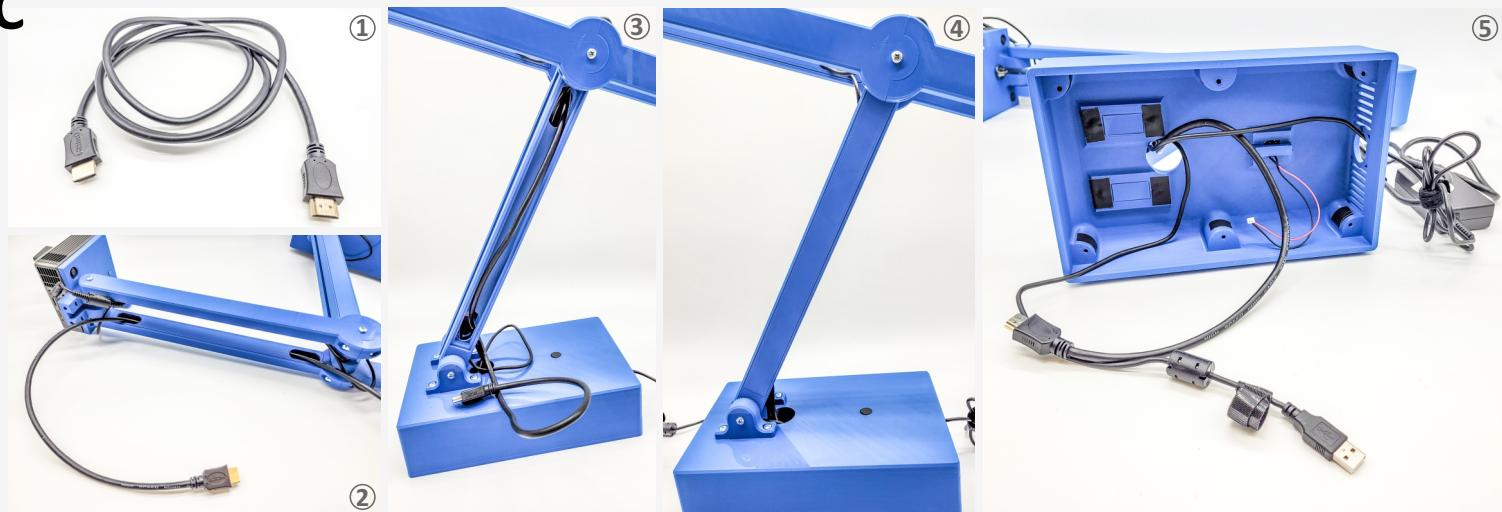
## 6. Cable Routing

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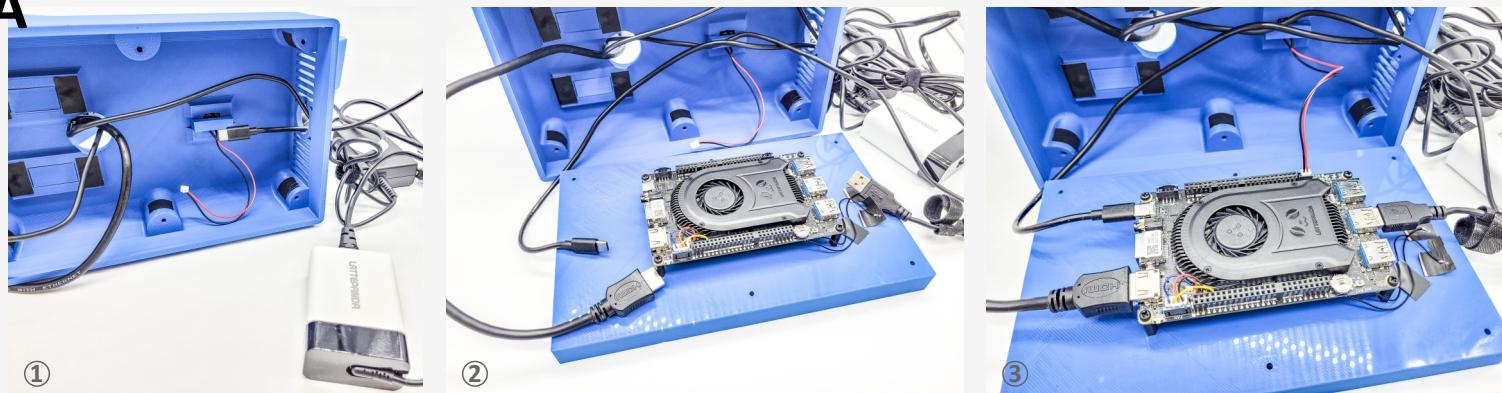


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**C**

## 7. Connecting the Panda and Closing the Socket

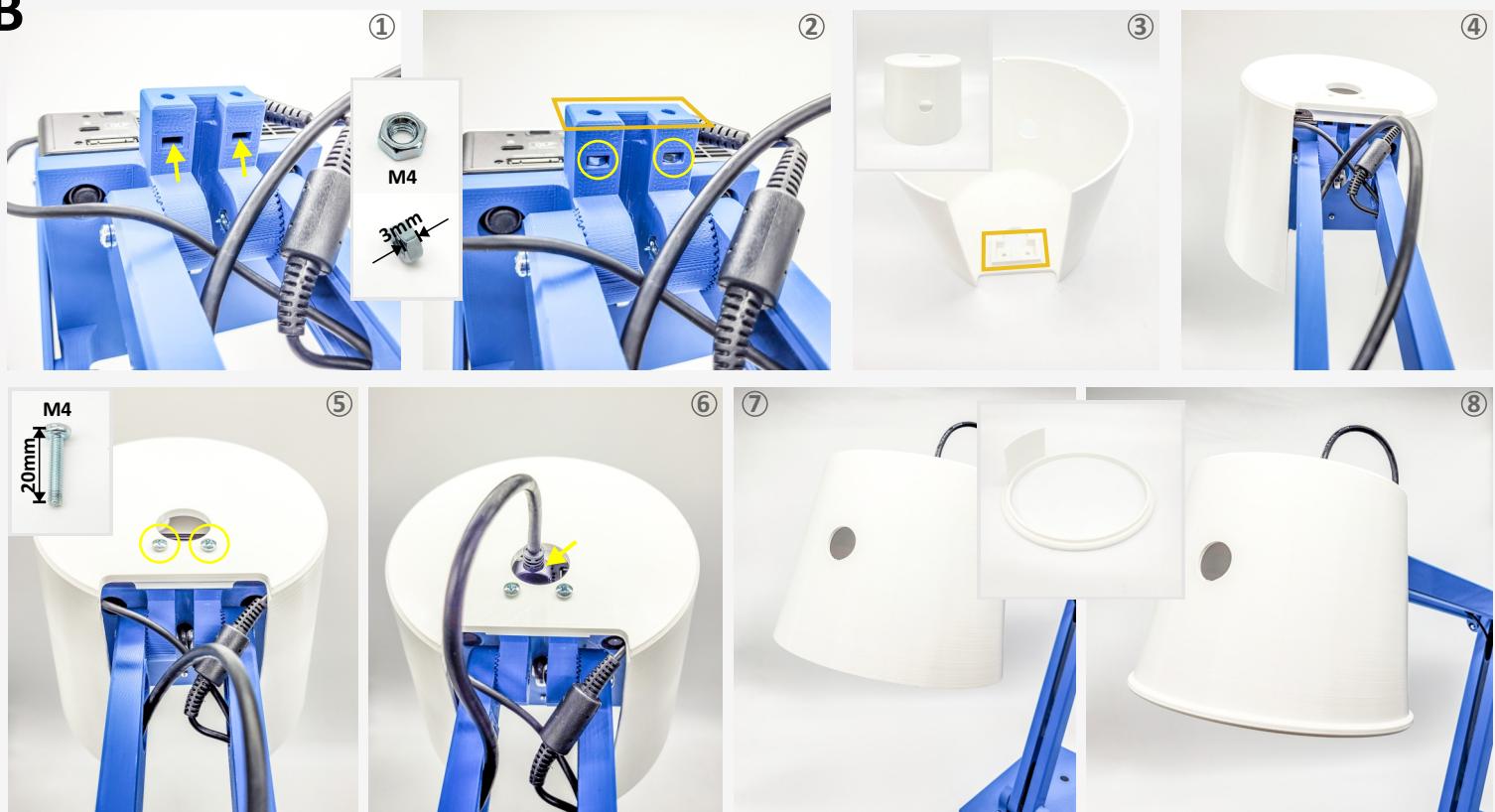
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## 8. Adding the Lamp Shade and Finishing the Lamp

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B



The Finished ProLamp

