

PVNet FACE SHIELD PROJECT

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User Guide

How to
Assemble Your Reusable
Face Shield



Parts and Definitions


- a. **Crown:** 3D printed piece (upright position seen in *Figure 1*)
- b. **Front pegs:** the four pegs that stick out of the front of the crown (Seen in *Figure 1*). The purpose is meant to connect the plastic shield to the crown.
- c. **Side anchors:** the two side anchors (seen in *Figure 1*). The purpose is to connect the elastic headband.
- d. **Plastic wing:** where pegs 1 and 4 are located on the headpiece. (Seen in *Figure 1*)
- e. **Plastic sheet:** singular plastic film transparency (upright position seen in *Figure 2*)



Figure 1: Crown

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f. Face shield: final product	
<p><u>Instructions</u></p> <p>Step 1: Make sure the crown is oriented in its upright position. Indicators of that include the PVNet sticker in the center of the headpiece, or the engraved sides of the headpiece that read “PRUSA PVNET.COM”</p> <p>Step 2: Make sure the plastic sheet is oriented in its upright position, which means the punctured holes are on located at the top of the sheet.</p> <p>Step 3: Align and insert the holes in the plastic sheet with the front pegs on the crown. Repeat until the last front peg.</p>	 <p><i>Figure 2: Plastic sheet placed on headpiece</i></p>

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Step 4:

On the last **front peg**, it is harder to snap the plastic sheet into place. Thus, pinch down the respective **wing** with one hand, while simultaneously pulling the **plastic sheet** near the last hole, towards the **front peg**, to snap into place.

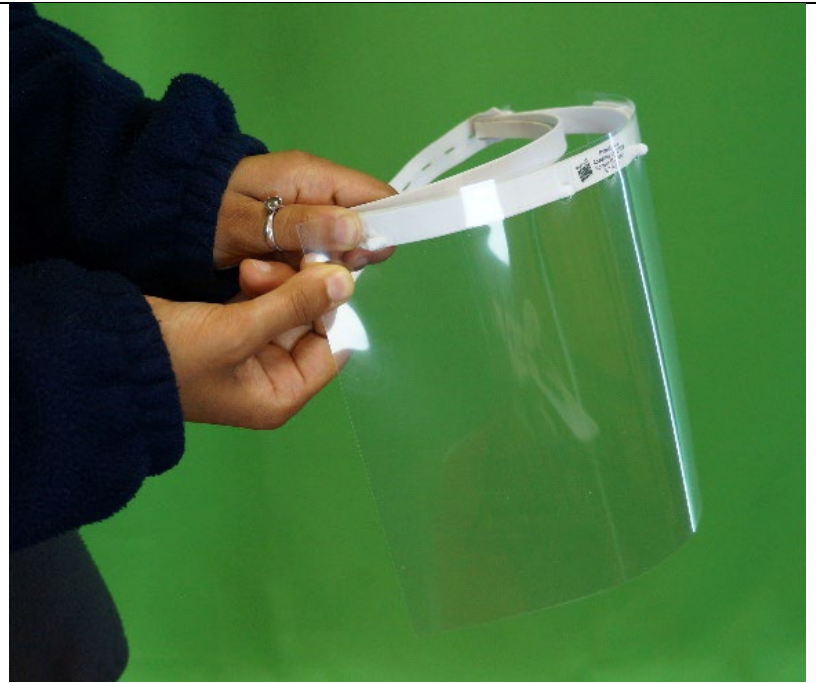


Figure 3: Final peg and plastic shield

Step 5:

Adjust the elastic band (the white strap with button holes) for your personal comfort.

- a. If you want a smaller or tighter fit, adjust the elastic band so that the **side anchor** is not on the last buttonhole.
- b. If you want a bigger or looser fit, adjust the elastic band so that the **side anchor** is on the last rectangular buttonhole.



Figure 4: Tight Adjustment

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Step 6:

Congrats!

You have assembled your own reusable face shield that helps decrease the spread of germs and flatten the curve.

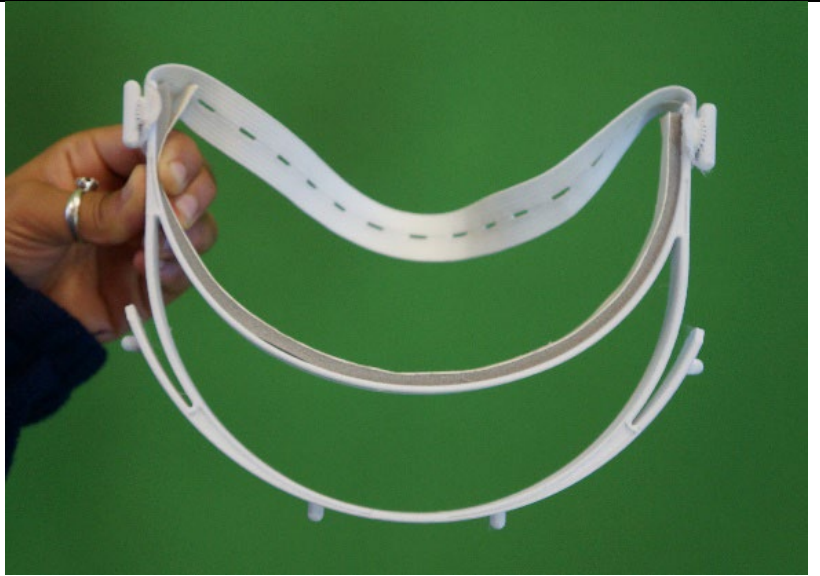


Figure 5: Loosest adjustment

We, PVNet volunteers, have made it our priority to support at-risk health care workers and those in critical need during the COVID-19 pandemic by manufacturing face shields at our nonprofit STEM education center which was founded in 1994.

We believe it's everyone's responsibility to work together caringly, intelligently, and without personal benefit in order to save lives.

If you need face shields, go to PVNet.com and click on the link for face shields. Follow the instructions and we will do our best to help.

How to reach us:

Email: Education@PVNet.com.

Phone: 310-541-7992

Please donate so we can purchase materials to make face shields. All moneys go toward costs to make shields.

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How to Clean Your Reusable Face Shield(s)

Sanitizing your protective gear is an essential component to protecting yourself and others from the spread of COVID-19. In order to properly disinfect your face shield without accidentally scratching or clouding the plastic screen, please consider one of the following suggested cleaning methods:

Option 1: Spray the plastic sheet with an alcohol mister or spray bottle and let it sit until it's dry.

Option 2: Gently wipe, do not rub, the plastic sheet with an alcoholic disinfectant wipe.

- a. Avoid using facial wipes and other wipe products that have a skin softener component to them in order to prevent from a cloudy screen.

For best results:

1. Wash your hands before and after cleaning your face shield.
2. Sanitize the environment you are working on prior to setting the face shield down.

Need a replacement?

Your face shield(s) are made to be reusable, however if you need to replace the parts, we understand! On our website, pvnet.com, you can find the links to replace materials such as the foam and/or the plastic shield transparency.