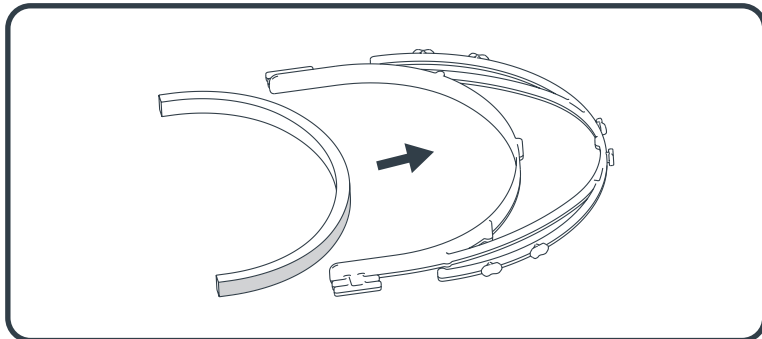




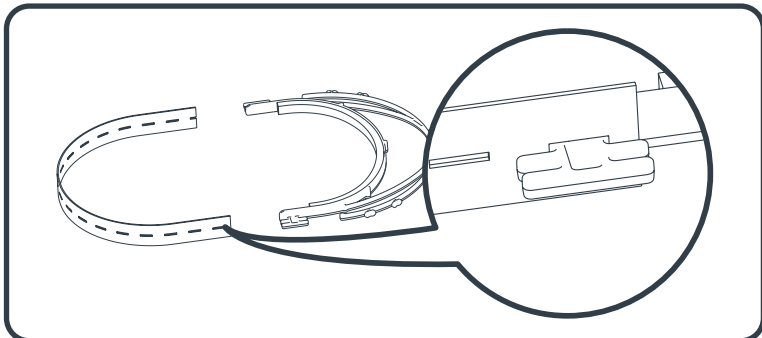
# PNWS

PACIFIC NORTHWEST SHIELDS

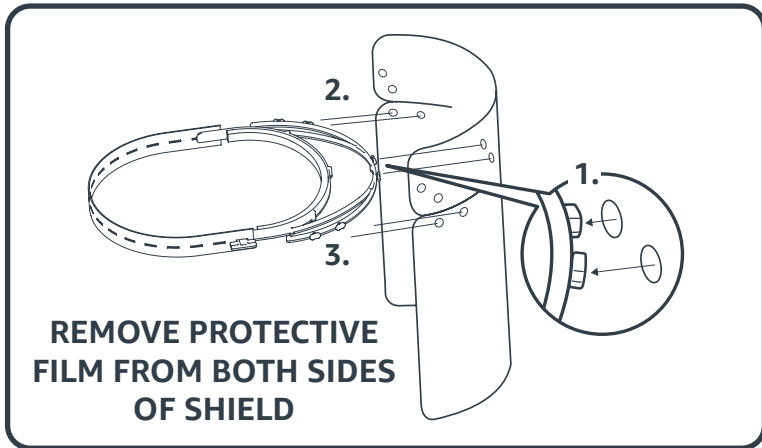
## A. Attach Foam



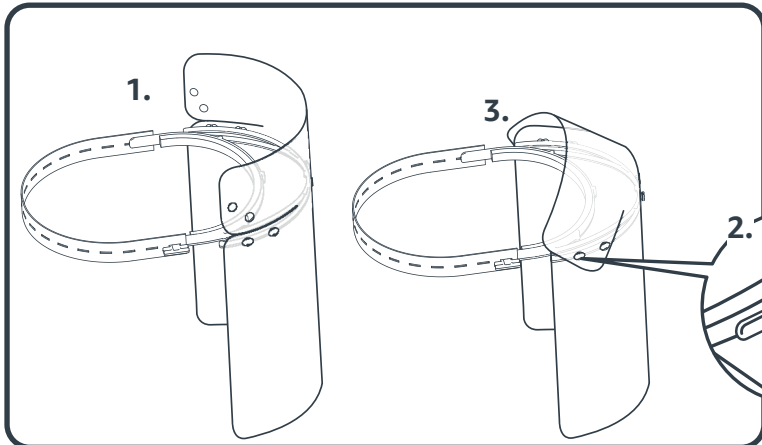
## B. Attach Elastic



## C. Snap on Shield



## D. Fold Shield



## CLEANING INSTRUCTIONS

Wear disposable gloves when cleaning and disinfecting surfaces. Gloves should be discarded after each cleaning. If reusable gloves are used, those gloves should be dedicated for cleaning and disinfection of surfaces for COVID-19 and should not be used for other purposes. Consult the manufacturer's instructions for cleaning and disinfection products used. Clean hands immediately after gloves are removed.

If surfaces are dirty, they should be cleaned using a gentle warm dish washing soap and rinsed with clean water prior to disinfection.

Use of microfiber cloths cleans 50% better than comparable cotton towels and reduces the risk of scratching plastic.

Allow enough contact time after applying the disinfectant. If the contact time is too brief, the surface will not be thoroughly disinfected. Appropriate contact time is listed for each disinfectant listed below.

### Some Important "Do NOTs"

- DO NOT use abrasive or highly alkaline cleaners
- DO NOT scrape with squeegees, razor blades or other sharp instruments.
- Benzene, gasoline, acetone, or carbon tetrachloride should never be used to clean your shield.
- DO NOT use a dry cloth or your hand to clean your polycarbonate!

## CLEANING METHODS

Commonly available disinfectants are recommended to be used on your face shield:

### BLEACH

Prepare a bleach solution by mixing:

- 5 tablespoons (1/3rd cup) bleach per gallon of water (80mL bleach per 3.8L of water)
- Diluted household bleach solutions (at least 1000ppm sodium hypochlorite) can be used if appropriate for the surface. Follow manufacturer's instructions for application, ensuring a contact time of at least 1 minute, and allowing proper ventilation during and after application. Check to ensure the product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser. Unexpired household bleach will be effective against coronaviruses when properly diluted.

### SUPER SANI-WIPE, ISOPROPYL ALCOHOL [IPA] or ETHYL ALCOHOL

Use of alcohol-based wipes or sprays or soaked cloths containing at least 70% alcohol. » Do not dilute. » Fast acting. Allow alcohol to remain on surface for at least 30 seconds or longer to disinfect.

### HYDROGEN PEROXIDE

Use 3-5% hydrogen peroxide. » Do not dilute. » Allow to remain on the plastic for 5 minutes.

### WARM SOAPY WATER

The use of warm, gentle dish soap is a common form of cleaning and disinfecting. » Thoroughly and vigorously wash the surface of the plastic with dish washing soap for a minimum of 20 seconds or longer. » Rinse with clean water

### NOTE

If using ammonia based cleaners rinse down the clear shield with water afterwards to preserve optical clarity.





These face shields are provided in parts meant to be assembled by the user.



The Items in this kit are not sterile.

**Cleaning Methods** are included with the Items in this package. Follow all cleaning agent manufacturer recommendations.

**Assembly Instructions** are included with the items in this package.

**Alert:** The design and materials for these face shields ("Items") have been "Reviewed for Clinical Use" and made available by NIH/NIAD in collaboration with the U.S. Food and Drug Administration, the Veterans Healthcare Administration, and America Makes under on the NIH 3D Print Exchange (<https://3dprint.nih.gov/collections/covid-19-response>) including the following statements:

This design has undergone review in a clinical setting and has been found appropriate when fabricated with the printer type and materials specified.

<https://3dprint.nih.gov/discover/3dpx-013884>

March 25, 2020: [The NIH 3D Print Exchange] collection of designs was created to support the manufacturing of personal protective equipment (PPE) or other necessary medical devices that are in short supply due to the COVID-19 outbreak. While many can be printed with a 3D printer at home or your local Maker space, the NIH, FDA, VA, America Makes, and the contributing creators cannot ensure the quality, safety, and efficacy of these designs when manufactured without proper quality controls and processes.

We are proud to support you, and we thank you for all you are doing for our communities. We are grateful for your efforts.

This face shield was designed by an open source group of volunteers, source files and attributions can be found here:

[github.com/PNWS/PNWS](https://github.com/PNWS/PNWS)



For further information on products available for disinfecting your face shield, please visit:

<https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2-covid-19>



The Items are not intended for antimicrobial or antiviral protection or related uses, or uses for infection prevention or reduction or related uses, or for radiation protection, or any use that would create an undue risk in light of the public health emergency.

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The Items contain materials which will contact the human body, including:

- Polyethylene Terephthalate Glycol (PETG) for the frame
- Polycarbonate (PC) for the shield
- Neoprene or Vinyl for the closed cell foam
- Cotton, Polyester, and Elastic for the headband, which may contain Latex

The Items are not intended for use in the presence of a high intensity heat sources or flammable gas. These Items are intended for single use and should not be shared between users.