

ZeroUI

Glove Design

Manufacturing

Process

These are the instructions which were derived to sew the glove in a way that helps us to assemble the electronics easily and also seal the glove by locking the zipper permanently. This is a suggested method which can be modified according to the process capabilities available with the manufacturer.

The photographs shown in the process below are an attempt by an engineer to sew and design the process so please ignore the stitch quality in the image. The quality is expected as per the general production quality.

Very Important: The process doesn't have the Zipper in the images as it was added later in the process. Zipper is replaced with where plastic edge is referenced in future sections

Pattern Cut out Labels :

File for the pattern: [Pattern File](#)



Following are the Pattern References Names for this document. Their name in the PDF is written in Red

A1: MAIN PATTERN WITH WRIST BAND ENCLOSURE TOP SIDE WITH LEATHER TOP

Name in PDF: 1 - Main Pattern Top

A2: MAIN PATTERN WITH WRIST BAND ENCLOSURE BOTTOM SIDE

Name in PDF: 2 - Main Pattern Bottom

B: SANDWICH BASE

Name in PDF: 3 - Sandwich Pattern

C: PALM MESH

Name in PDF: 5 - Palm Mesh

D: LEATHER CUT-OUT

Name in PDF: 4 - Leather Patch

E: PLASTIC EDGE /ZIPPER (ZIPPER NOT SHOWN IN THE IMAGE BUT USED IN THE SAMPLE)

Not shown in PDF

F: WRIST ELASTIC

Name in PDF: 7 - Wrist Elastic

G: FINGER ELASTIC

Not shown in PDF

H: WRIST PATCH

Name in PDF: 6 - Wrist Patch

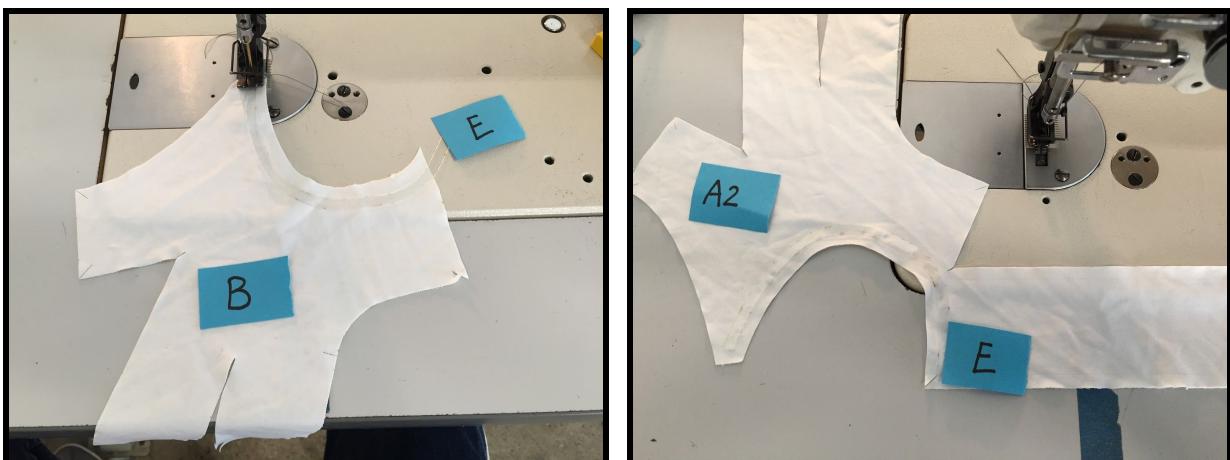
Step 1:

1. Stitch leather cutouts D to A1 (referred to as A1+D) over the marked lines. Place the leather patches over the outlines on A1 for the pattern and stitch over the marked lines on the leather pattern. NOTE: Do NOT sew the bottom edge of main leather patch.



2. Stitch the zipper edges on the marked lines on A2 and B. Referred as (A2+E) and (B+E). Finish the end of the bottom edge with Hem Stitch on A2+ E. Hemming and finishing will be done on B+E afterwards.

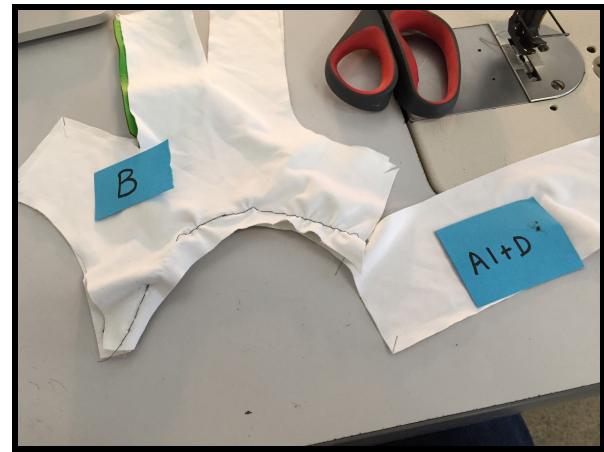
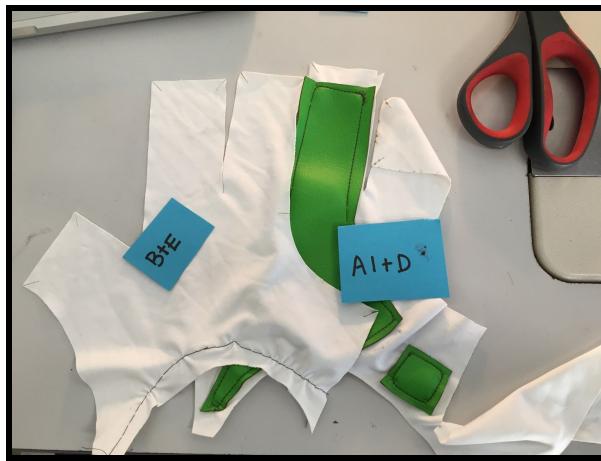
Note: The location of zipper on pic is where the plastic edge is present currently. The zipper was added later to the design but the required functionality stays the same.



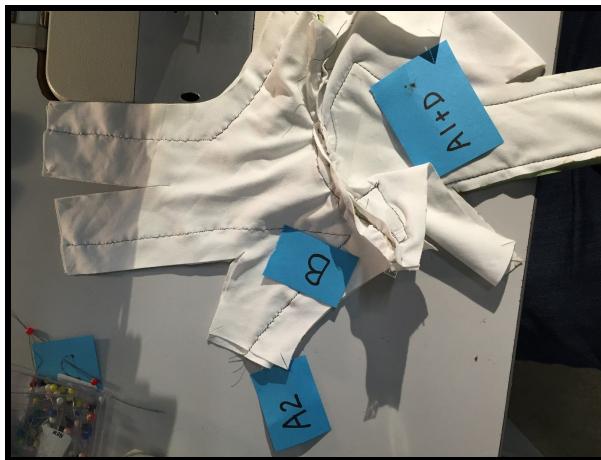
NOTE: ZIPPER INSTEAD OF PLASTIC EDGE:

Step 2:

1. Stitch (INSIDEOUT) over the bottom edge of (A1+D) + (B+E). Finish the stitch with Hem in the end.



2. Stitch the sensor locations, sensor guides, and casing locations over B and A2. (B+A2)(Pic of guide lines).



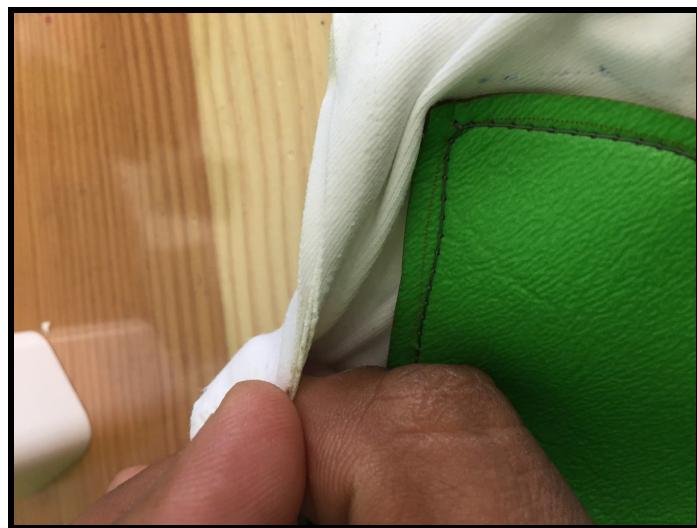
3. Stitch inside out for only the fingertips of (A1+D)+(B+A2) (Picture).



4. Now turn it inside out.(Picture of inside out).



5. Stitch(INSIDE OUT) three layers of fabric at opening for ring finger and pinky finger.



Step 3:

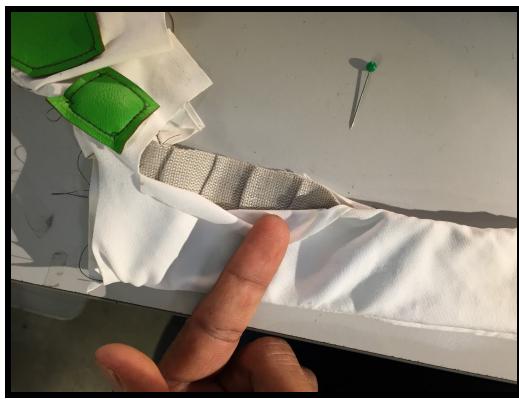
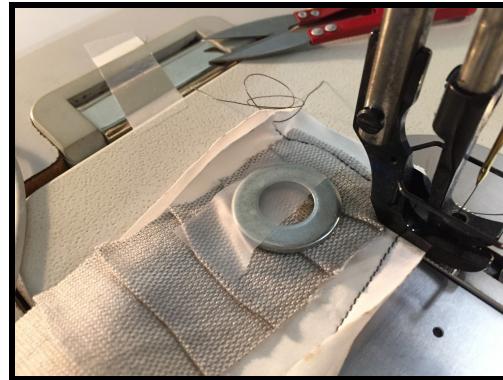
1. Stitch the magnet on elastic edge (F).



2. Stitch (INSIDE OUT) the wristband locations on A1 and A2 marked on the image.

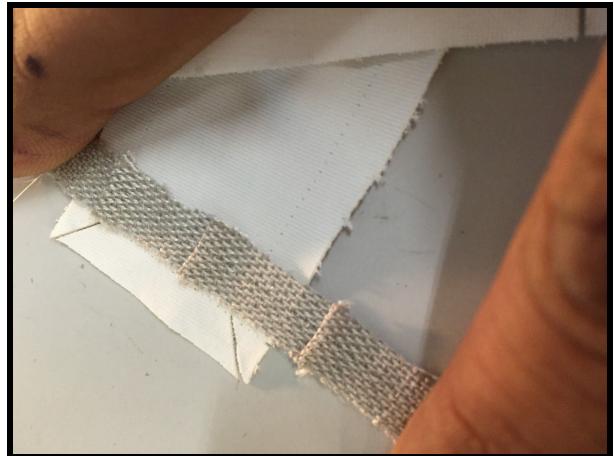
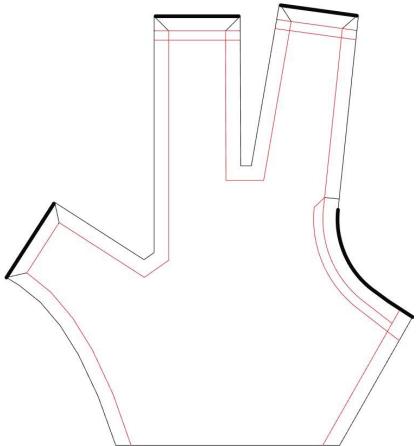


NOTE: Also attach the elastic F at the edge of the wrist band after partially stitching inside out of the bottom edge as shown in the pictures



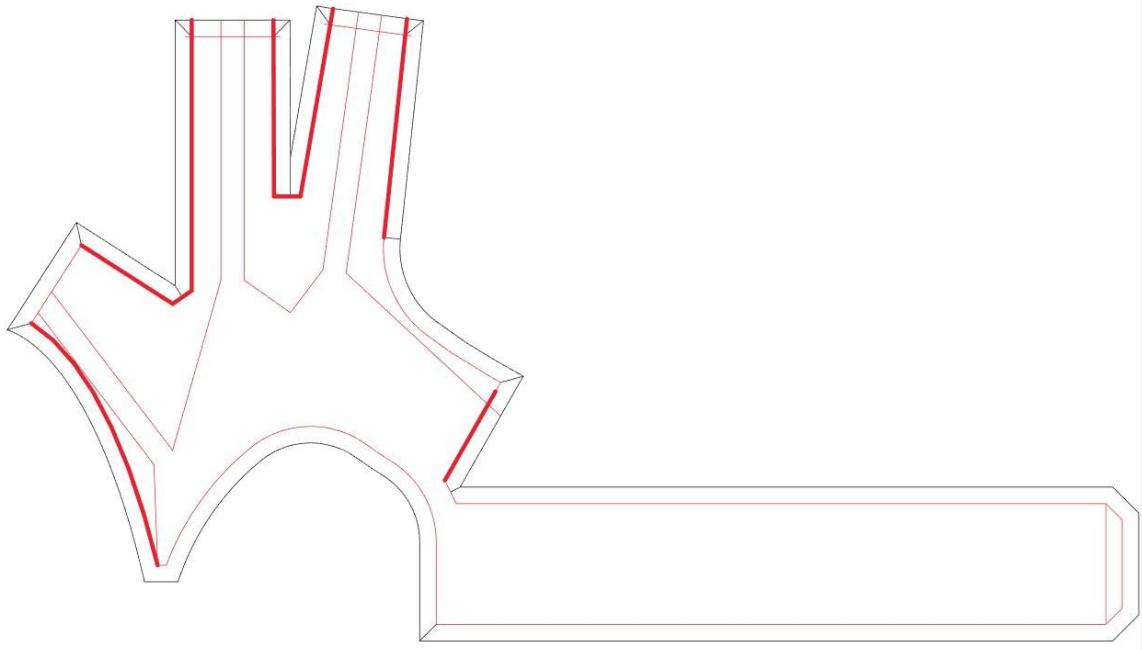
Step 4:

1. Insert the edge elastics G on at the edge of the Palm Mesh C marked locations and hem stitch.



Step 5:

1. Stitch (INSIDEOUT) C+((A1+D+B+A2)) over the marked locations.



2. Pull out the glove.

Step 6:

1. Hem fold the left over wrist area and overlap the mesh and top stitch on the bottom.(Ensure that the mesh is inside the wrist area). The leather dge of the A1+D should be inside the wrist band.



2. Again hem fold the other side and topstitch on it to finish it and stitch the H Wrist patch in the end

