

Step 3 – Sewing & Assembly

Sewing Instructions

Part Legend

- **Part A** – Right Section
- **Part B** – Center Section
- **Part C** – Left Section

Components

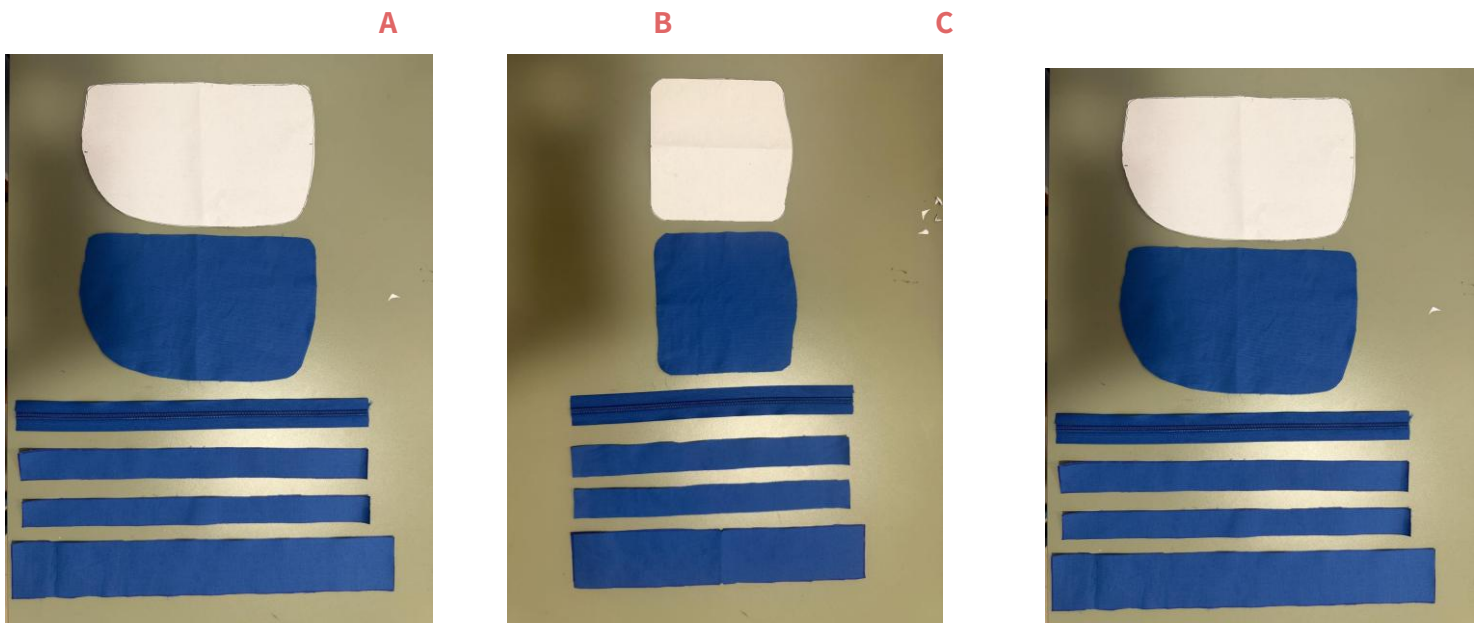
- Top Panel
- Bottom Panel
- Stop Strip
- Zipper Strip 1
- Zipper Strip 2
- Connection Tab

Note:

The sewing process follows the same sequence for all three sections (A, B, and C). Each section is sewn individually before they are connected together in the final assembly.

1. Transfer the Pattern Pieces

Transfer all pattern pieces onto the fabric and cut them out.



2. Mark the Notches

The paper patterns include **V-shaped notches (>)** indicating the center points of the pattern pieces.

Transfer these notches onto the fabric using tailor's chalk or a fabric marker.

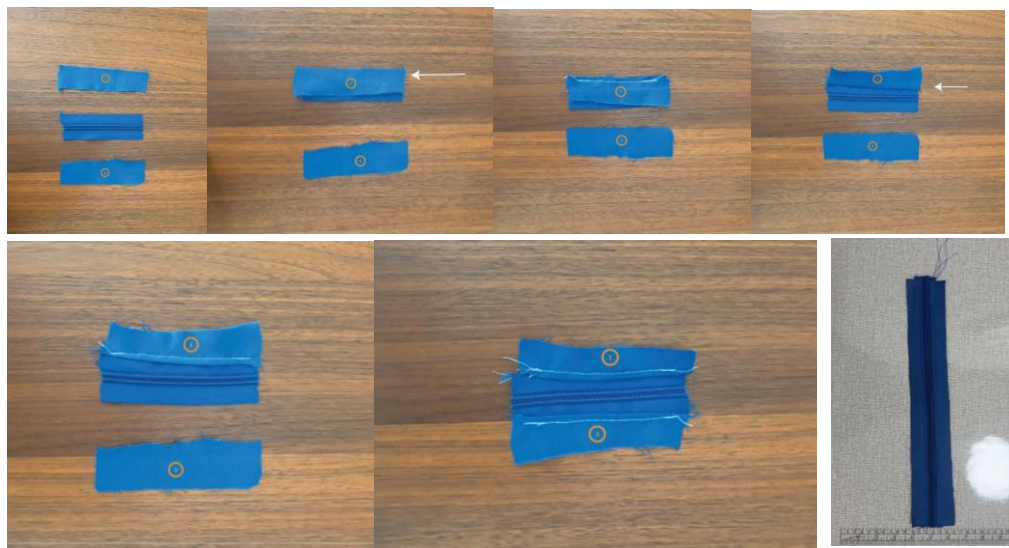
3. Sewing Part B

3.1 Assemble the Zipper Strips

Components

1. Zipper Strip 1
2. Zipper Strip 2
3. Place the zipper on the work surface with the zipper teeth facing upward.
4. Position Zipper Strip 1 along one side of the zipper and stitch along the seam line indicated in Figure 2.
5. Fold the fabric away from the zipper as shown in Figure 4, then topstitch to flatten the seam.
6. Repeat the same procedure with Zipper Strip 2 until the assembly matches Figure 6.

Figure 7 shows the completed zipper assembly at full scale.



3.2 Install the Zipper Slider

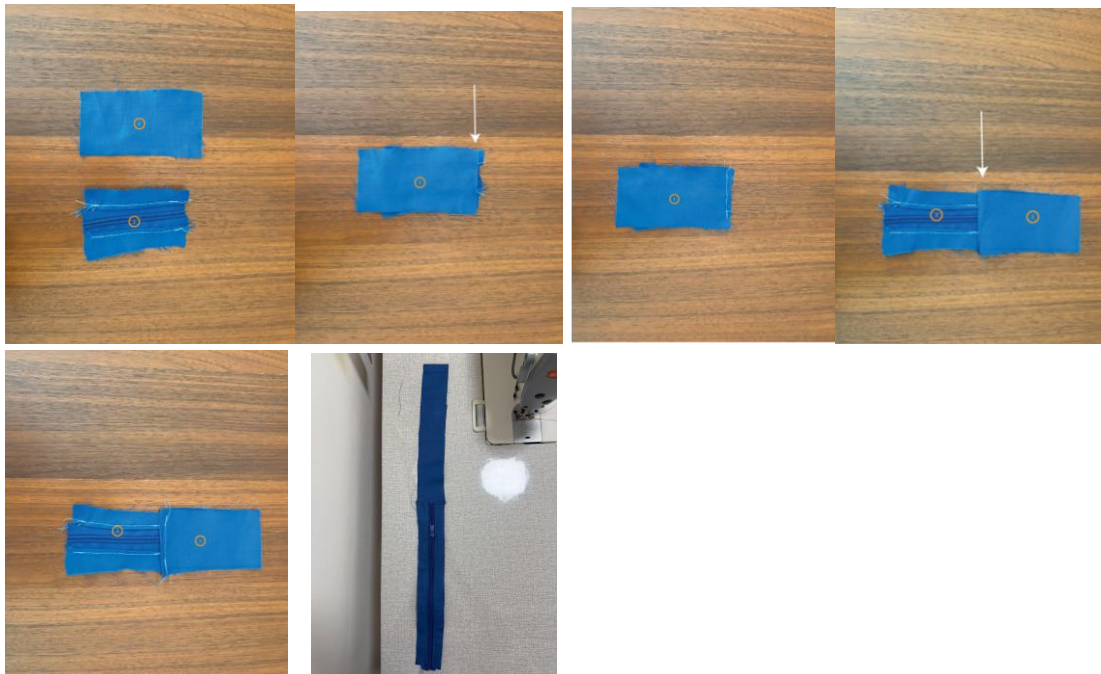
Insert the zipper slider onto the zipper.

3.3 Attach the Stop Strip

Components

1. Stop Strip
2. Zipper Assembly
3. Position the stop strip across one end of the zipper assembly as shown in **Figure 2**.
4. Stitch along the indicated seam.
5. Fold the stop strip over and topstitch to flatten the seam.
6. The completed assembly should match **Figure 5**.

See **Figure 6** for the final result.



3.4 Attach the Zipper Assembly to the Bottom Panel

1. Position the zipper assembly around the bottom panel.
2. Align the beginning of the zipper with the notch marked on the panel.
3. Sew around the panel until approximately **75%** of the perimeter has been completed.



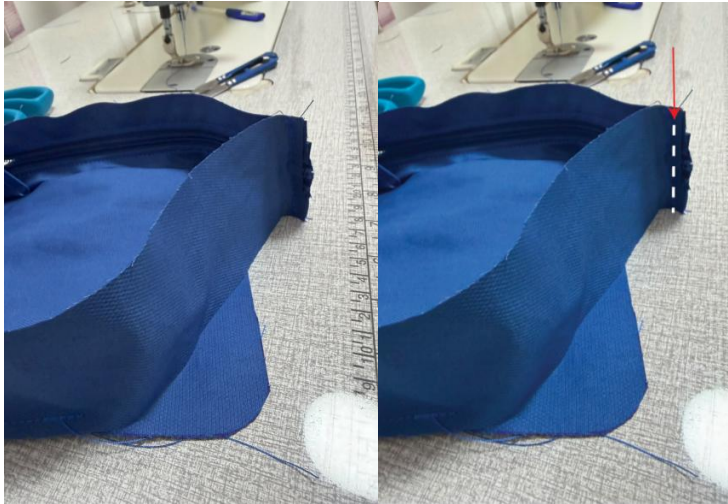
3.5 Trim the Zipper

1. Continue positioning the zipper until it reaches the notch on the opposite side of the panel.
2. Mark the required zipper length.
3. Trim the excess zipper.



3.6 Join the Ends

1. Bring the zipper end and the stop strip together.
2. Sew them together approximately 10 mm from the edge.
3. Complete the remaining seam to attach the zipper assembly to the bottom panel.



3.7 Close Part B

With Part B turned inside out:

1. Pin or clip the top panel to the zipper assembly.
2. Sew around the entire perimeter using a 10 mm seam allowance.
3. Open the zipper.
4. Turn Part B right side out.



3.8 Create an Opening

Using a seam ripper, carefully remove approximately 100 mm (10 cm) of stitching from the center of the upper side seam, leaving about 10 mm from each corner.

Note:

Repeat this procedure later on the opposite lower side seam.

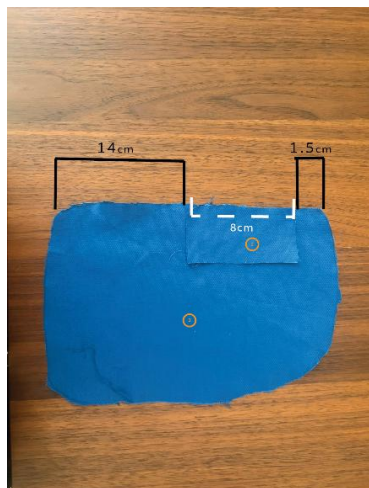
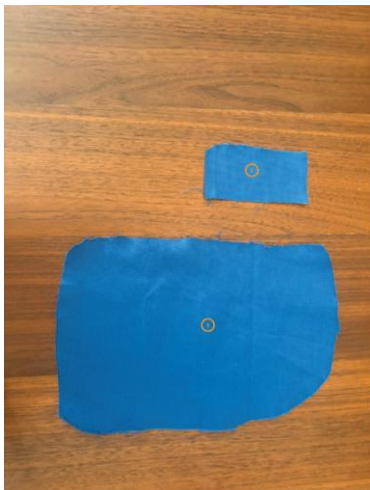


5. Sewing Part A

5.1 Attach the Connection Tab

Components

1. Connection Tab
2. Top Panel of Part A
3. Position the Connection Tab along the straight edge of the Top Panel, as shown in Figure 2.
4. Place the tab 140 mm from the far edge and 15 mm from the near edge.
5. Stitch around the entire perimeter of the connection tab.
6. The completed result should match Figure 3.

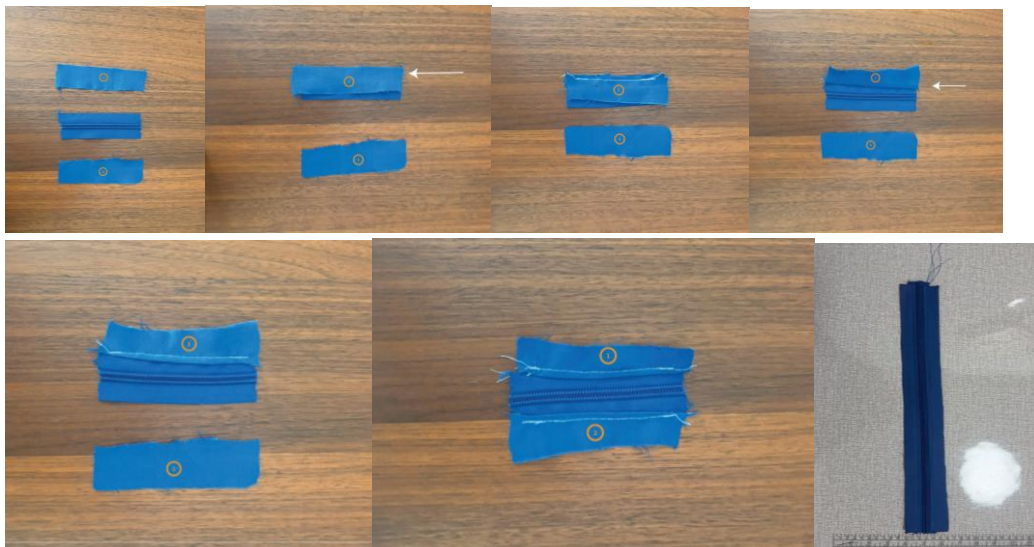


5.2 Assemble the Zipper Strips

Components

1. Zipper Strip 1
2. Zipper Strip 2
3. Place the zipper on the work surface with the zipper teeth facing upward.
4. Position **Zipper Strip 1** along one side of the zipper and stitch along the indicated seam (**Figure 2**).
5. Fold the strip away from the zipper as shown in **Figure 4**, then topstitch to flatten the seam.
6. Repeat the same procedure with **Zipper Strip 2** until the assembly matches **Figure 6**.

Figure 7 shows the completed zipper assembly at full scale



5.3 Install the Zipper Slider

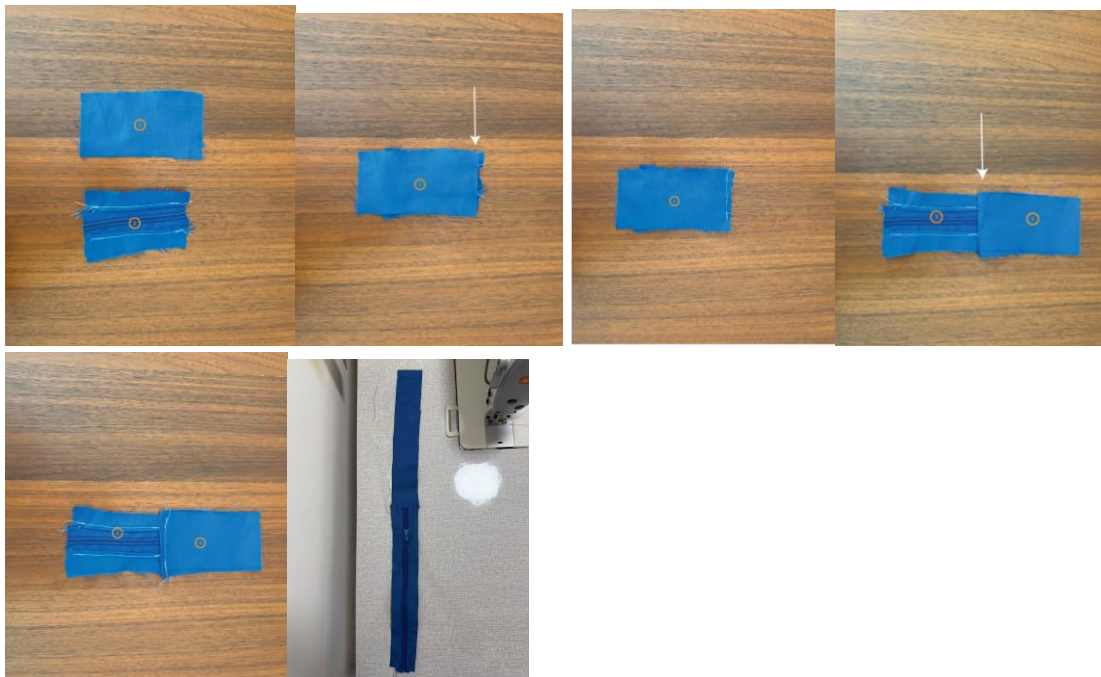
Insert the zipper slider onto the zipper.

5.4 Attach the Stop Strip

Components

1. Stop Strip
2. Zipper Assembly
3. Position the **Stop Strip** across one end of the zipper assembly, as shown in **Figure 2**.
4. Stitch along the indicated seam.
5. Fold the stop strip over and topstitch to flatten the seam.
6. The completed assembly should match **Figure 5**.

See **Figure 6** for the finished result.



5.5 Attach the Zipper Assembly to the Top Panel

Components

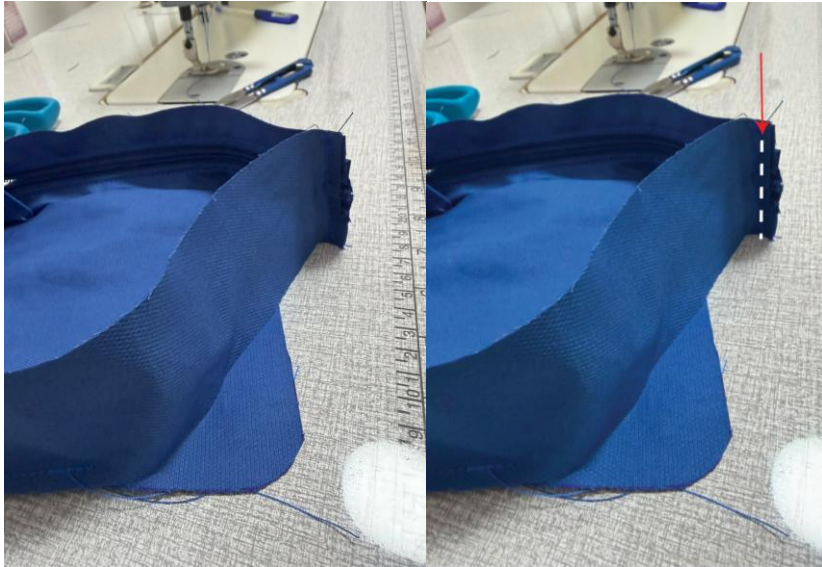
1. Zipper Assembly
2. Connection Tab
3. Top Panel of Part A
4. Place the **Top Panel** with the attached **Connection Tab** on the work surface.
5. Position the zipper assembly around the panel with the **zipper teeth facing downward**.
6. Align the notch on the zipper assembly with the notch on the straight edge of the panel.
7. Sew around the panel until approximately **75%** of the perimeter has been completed.



5.6 Trim the Zipper

1. Mark the point where the stop strip reaches the opposite notch on the panel.

2. Measure the same location on the zipper.
3. Trim the excess length of the zipper.



5.7 Join the Ends

1. Bring the end of the zipper together with the end of the stop strip.
2. Stitch them together approximately **10 mm** from the edge.
3. Complete the remaining seam to attach the zipper assembly to the top panel.



Do **not** close Part A yet.

Proceed to **Step 6 – Connecting Part A to Part B** before completing the final assembly of Part A.

6. Connect Part A to Part B

Orientation

- Part A: Right side out (*outer side facing outward*)
- Part B: Inside out (*inner side facing outward*)

Note:

Part B should already contain the opening created in Step 3.8.



6.1 Attach the Connection Tab

1. Insert the **Connection Tab** attached to **Part A** through the opening in **Part B**, allowing the tab to extend outside while keeping both parts aligned as closely as possible on the inside.
2. Secure the connection tab to the outside of **Part B** using sewing clips or pins (**Figure 1**). At this stage, **Part A** should be completely inside **Part B**.
3. Stitch around the entire perimeter of the connection tab (**Figure 2**).
4. Trim the excess fabric, leaving approximately **10 mm** beyond the stitch line.
5. Pull **Part A** out of **Part B**.



6.2 Close Part A

Orientation

- **Part A:** Inside out (*inner side facing outward*)
 - **Part B:** Right side out (*outer side facing outward*)
1. Turn **Part A** inside out.
 2. Turn **Part B** right side out.
 3. Insert **Part B** completely inside **Part A**.



6.3 Sew the Bottom Panel

With **Part B positioned inside Part A**, sew the remaining **Bottom Panel** of **Part A** closed using a **10 mm seam allowance**.



6.4 Turn Part A Right Side Out

1. Open the zipper on **Part A**.
2. Carefully pull **Part B** out through the zipper opening.
3. Turn **Part A** right side out.



7. Prepare Part B for Connecting Part C

7.1 Create the Second Opening

Using a seam ripper, carefully remove approximately **100 mm (10 cm)** of stitching from the **center of the opposite lower side seam**, leaving approximately **10 mm** from each corner.

Important:

Part **A** should remain attached to the **Top Panel** of Part **B**, while **Part C** will later be attached to the **Bottom Panel** of Part **B** on the opposite side.

Parts A and C are mirror images of each other. Make sure the **narrow** and **wide** ends of the base panel are oriented correctly before continuing.



Pause Here

Proceed to **Step 8 – Sewing Part C**.

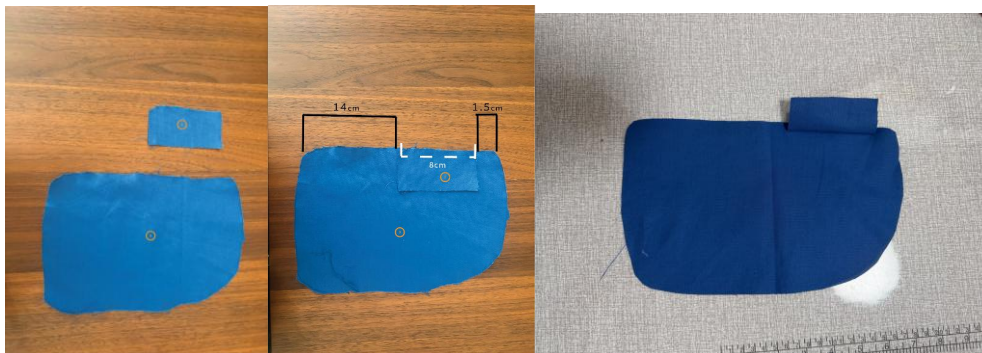
Return to this assembly after completing the preparation of Part C.

8. Sewing Part C

8.1 Attach the Connection Tab

Components

1. Connection Tab
2. Top Panel of Part C
3. Position the Connection Tab along the straight edge of the Top Panel, as shown in Figure 2.
4. Place the tab 140 mm from the far edge and 15 mm from the near edge.
5. Stitch around the entire perimeter of the connection tab.
6. The completed result should match Figure 3.

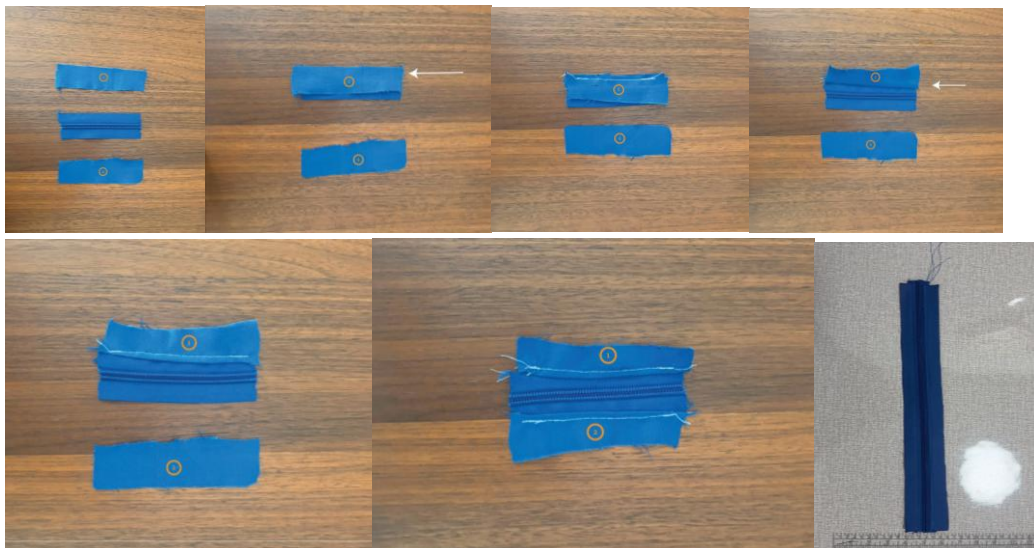


8.2 Assemble the Zipper Strips

Components

1. Zipper Strip 1
2. Zipper Strip 2
3. Place the zipper on the work surface with the zipper teeth facing upward.
4. Position **Zipper Strip 1** along one side of the zipper and stitch along the indicated seam (**Figure 2**).
5. Fold the strip away from the zipper as shown in **Figure 4**, then topstitch to flatten the seam.
6. Repeat the same procedure with **Zipper Strip 2** until the assembly matches **Figure**

Figure 7 shows the completed zipper assembly at full scale.



8.3 Install the Zipper Slider

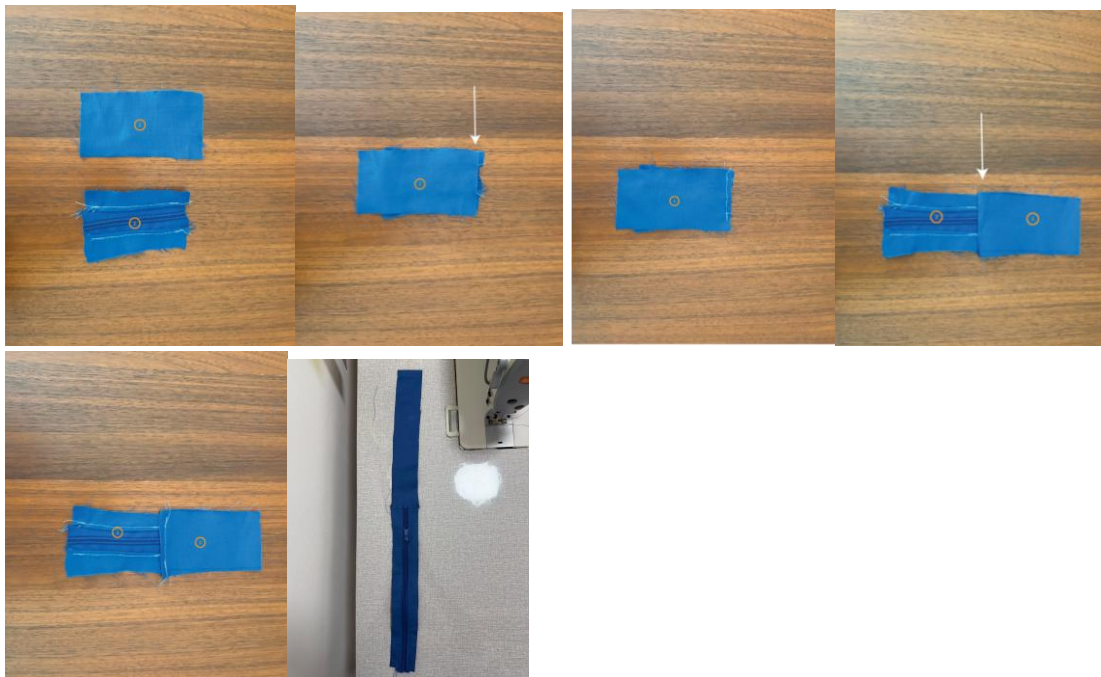
Insert the zipper slider onto the zipper.

8.4 Attach the Stop Strip

Components

1. Stop Strip
2. Zipper Assembly
3. Position the **Stop Strip** across one end of the zipper assembly, as shown in **Figure 2**.
4. Stitch along the indicated seam.
5. Fold the stop strip over and topstitch to flatten the seam.
6. The completed assembly should match **Figure 5**.

See **Figure 6** for the finished result.



8.5 Attach the Zipper Assembly to the Bottom Panel

Components

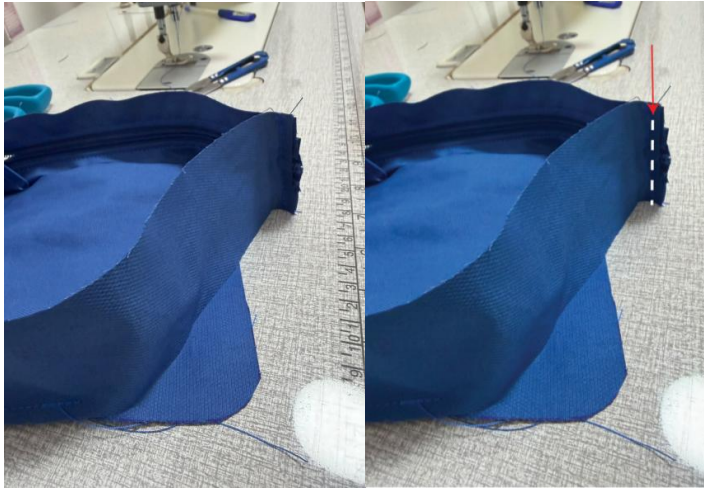
1. Zipper Assembly
2. Connection Tab
3. Bottom Panel of Part C
4. Place the **Bottom Panel** with the attached **Connection Tab** on the work surface.
5. Position the zipper assembly around the panel with the **zipper teeth facing downward**.
6. Align the notch on the zipper assembly with the notch on the straight edge of the panel.
7. Sew around the panel until approximately **75%** of the perimeter has been completed.



8.6 Trim the Zipper

1. Mark the point where the stop strip reaches the opposite notch on the panel.
2. Measure the same location on the zipper.

3. Trim the excess length of the zipper.



8.7 Join the Ends

1. Bring the end of the zipper together with the end of the stop strip.
2. Stitch them together approximately **10 mm** from the edge.
3. Complete the remaining seam to attach the zipper assembly to the bottom panel.



9. Connect Part C to Part B

Components

1. Part C (right side out) with the attached Connection Tab
2. Part B (inside out)
3. Connection Tab inserted through the opening in Part B

Orientation

- Part C: Right side out (*outer side facing outward*)
- Part B: Inside out (*inner side facing outward*)

Note:

Part B should already contain the opening created in Step 7.1.

9.1 Attach the Connection Tab

1. Insert the Connection Tab attached to Part C through the opening in Part B, allowing the tab to extend outside while keeping both parts aligned as closely as possible on the inside.
2. Secure the connection tab to the outside of Part B using sewing clips or pins (Figure 1). At this stage, Part C should be completely inside Part B.
3. Stitch around the entire perimeter of the connection tab (Figure 2).
4. Trim the excess fabric, leaving approximately 10 mm beyond the stitch line.
5. Pull Part C out of Part B.



10. Clo

Components

1. Part C (inside out)
2. Parts A and B (right side out)

Orientation

- Part C: Inside out (*inner side facing outward*)
 - Parts A and B: Right side out (*outer side facing outward*)
1. Turn Part C inside out.
 2. Ensure Parts A and B are right side out.
 3. Insert Parts A and B completely inside Part C.
-)10.2 Sew the Top Panel
 - With Parts A and B positioned inside Part C, sew the remaining Top Panel of Part C closed using a 10 mm seam allowance.



10.3 Turn the Cushion Right Side Out

1. Open the zipper on Part C.
2. Carefully pull Parts A and B out through the zipper opening.
3. Turn Part C right side out.

Expected Result

All three cushion sections should now be fully connected and turned right side out, ready for inserting the TPU structures and foam.

11. Insert the Cushion Core

1. Insert the TPU structures into their designated compartments.
2. Insert the foam inserts into each cushion section.
3. Ensure all components are properly aligned and fully seated inside the fabric cover.
4. Close all zippers.

Final Check

Verify that the cushion folds and unfolds smoothly and that all three sections are correctly aligned.

