

How to draft a pattern for a custom Embroidery Module Cover

As Embroidery Modules tend to be an awkward shape, there are a few ways to draft a pattern for a cover.

I chose to keep the pattern as simple as possible so that it would be easier to share it with you.

I will show the steps of how I figured out the dimensions so that you can follow them to draft a custom pattern for your own embroidery Module.

These steps will work best for the Bernina Embroidery Module M & L but you can adapt them for the Embroidery Module S too.

If you have the same embroidery Module as me (Bernina Embroidery Module L), you can find the dimensions for the pattern pieces in the other free downloadable document

What you'll need:

- Embroidery Module & Machine
- Ruler/Tape Measure (a set square would be helpful too)
- A way to make notes (notebook & pen)
- Pattern paper
- Paper scissors

Arm Positioning:



1. Attach your Module to your machine and set the embroidery Arm positioning to its packing position:

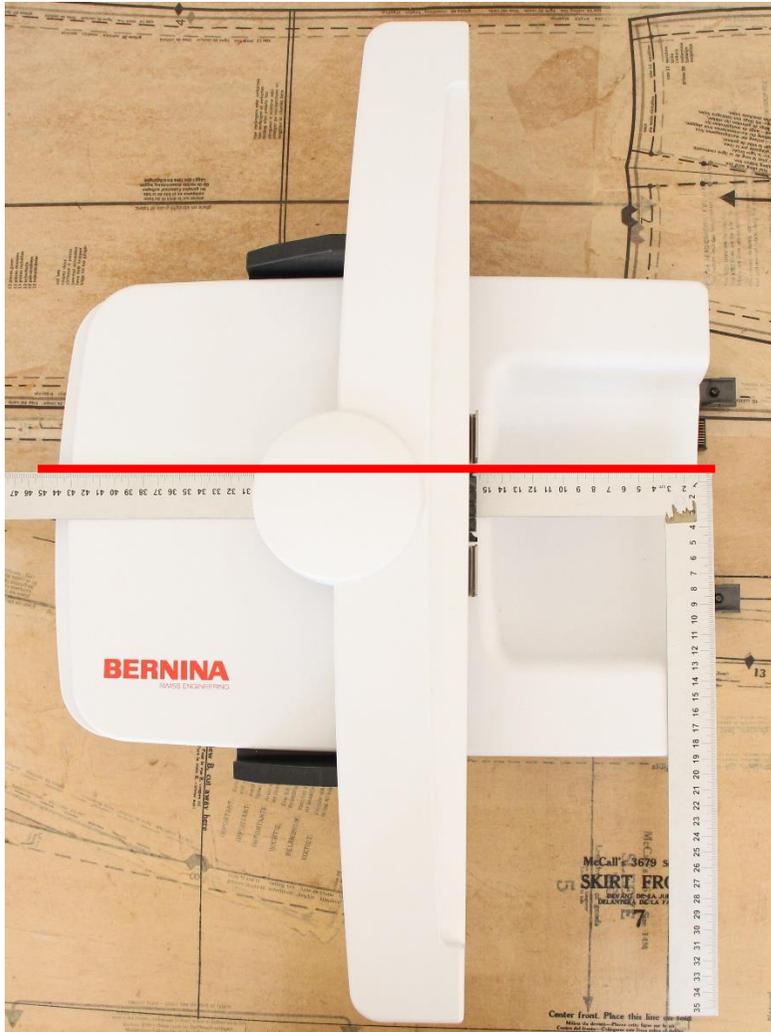


- Select the gears icon
- Click on the machine icon
- Select the wrench icon and click on the embroidery icon
- Click on the highlighted wording and the embroidery Arm will move to its packing position.



2. Remove the embroidery Module and switch off the machine.

Measurements:



3. Measure the length of the Module Base.
Carefully place the ruler under the embroidery Arm and measure from edge to edge.
I added an extra 3cm to include the little guides making the total length 49cm.



4. Measure the length from the side of the Module with the guides to the Arm.
If you added extra for the guides in the previous step, add that to this measurement.
*E.g. On my Module it is 15cm from the end for the Module to the Arm and as I added 3cm for the guides in the previous step, I must add it to this measurement.
I.e. $15\text{cm} + 3\text{cm} = 18\text{cm}$.*
You'll use this measurement as a guide when drafting the pattern later.



5. Measure the width of the Module Base at its widest point (not the Arm).
The widest part of the Base on my Module is the sliding part that attaches to the Arm and measures 36cm.



6. Measure the length of the Arm.
Mine measures 64cm.

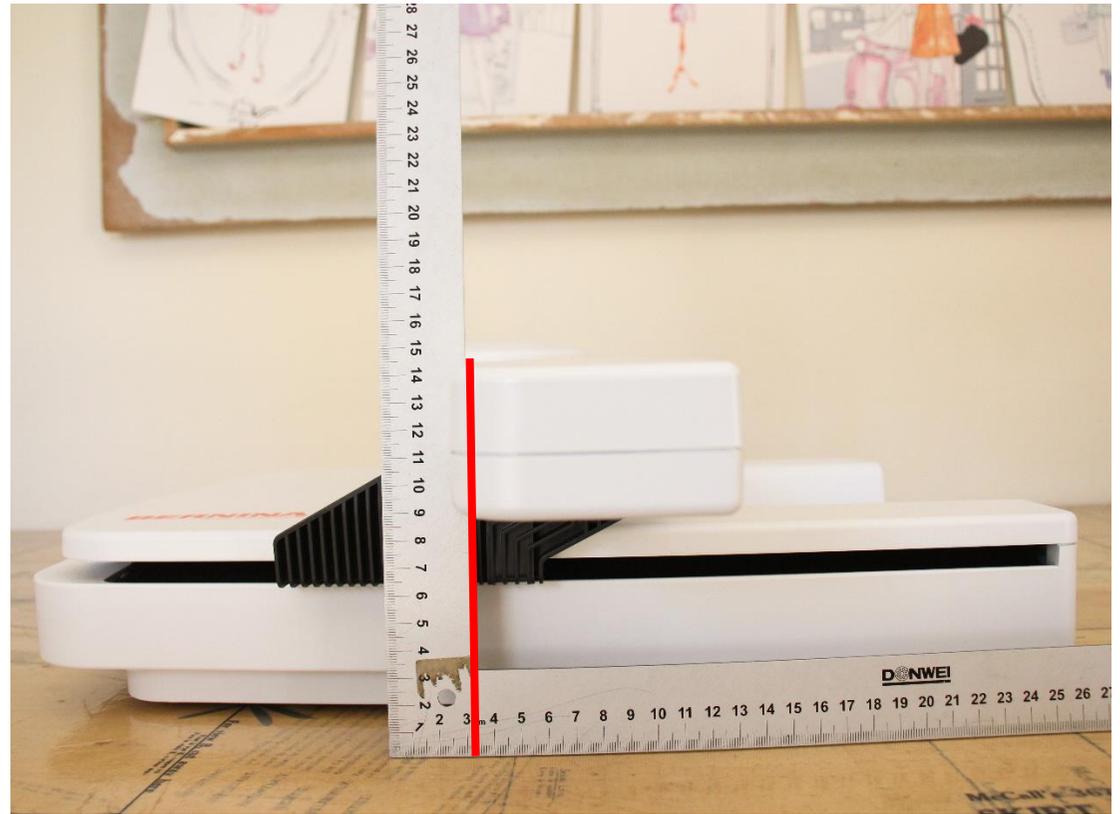
If you have an embroidery Module (like Embroidery Module S type) where the Arm extends past the Base Module more on one side, you'll need to record some extra measurements.

Measure how far out the Arm extends past the Base Module on each side, record both measurements.

You'll use this measurement as a guide when drafting the pattern later.



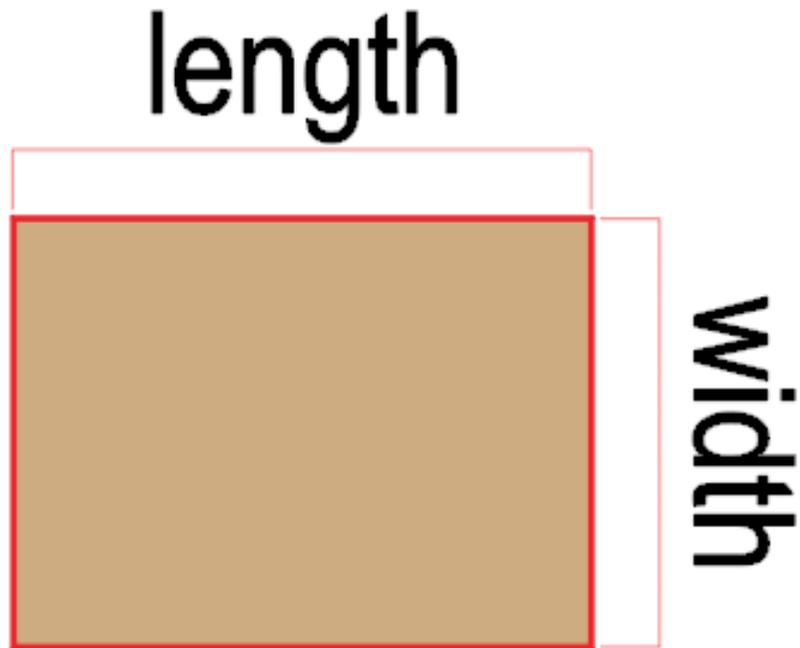
7. Measure the width of the Arm.
You'll need to measure the widest part of the Arm where it extends past the Base Module.
I added an extra 0.5cm on for a bit of leeway making mine 8.5cm.



8. Measure the height of the Module.
Measure from the flat surface beneath the Module the top of the Arm.
I added an extra 0.5cm to account for the circular part in the middle of the Arm.

Draft the Pattern

Top Pattern Piece



9. Draw a rectangle that is the width & length of your Base Module (measurements from step 3 & 5).

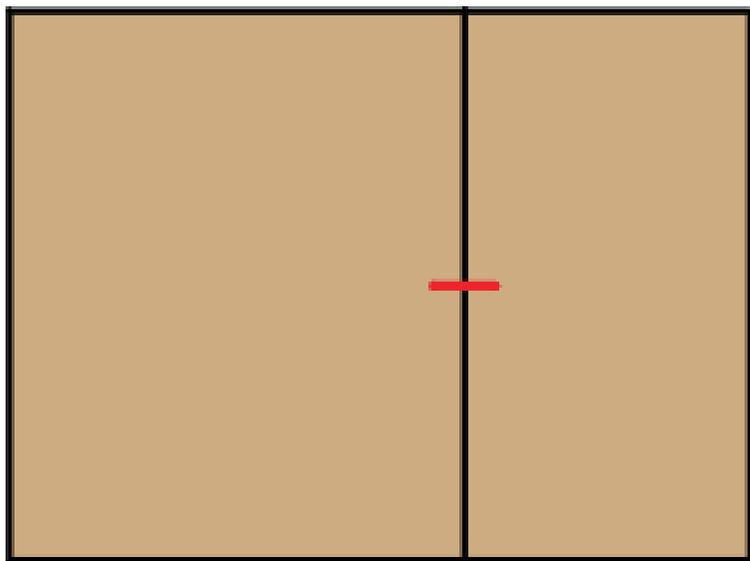
Mine is 49cm x 36cm.



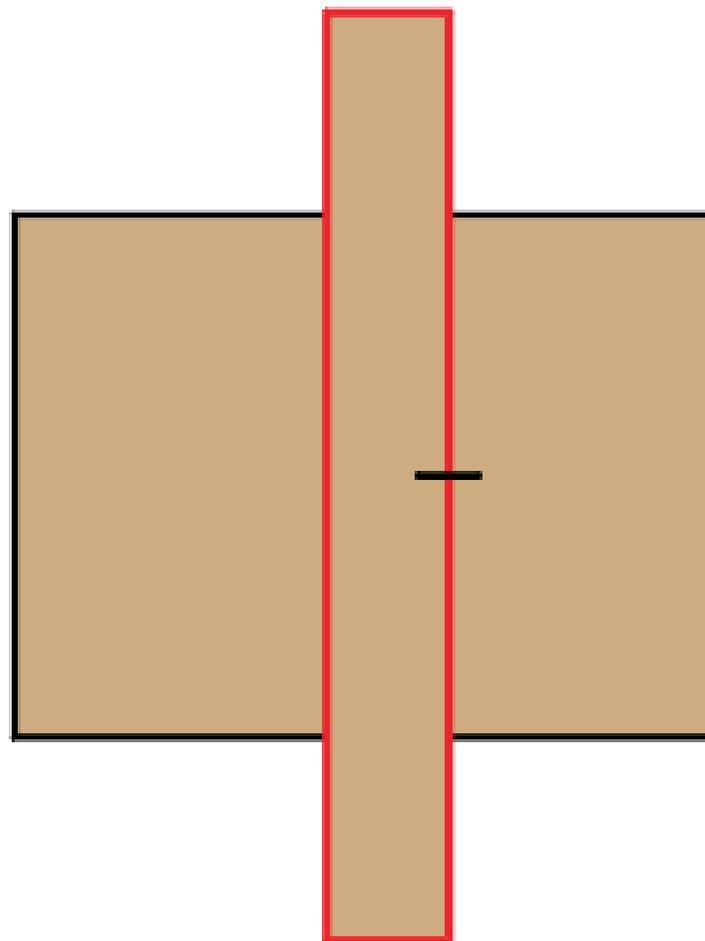
10. Measure in from the left side using the measurement from step 4.

My measurement is 18cm.

Draw a line across the width of the rectangle.

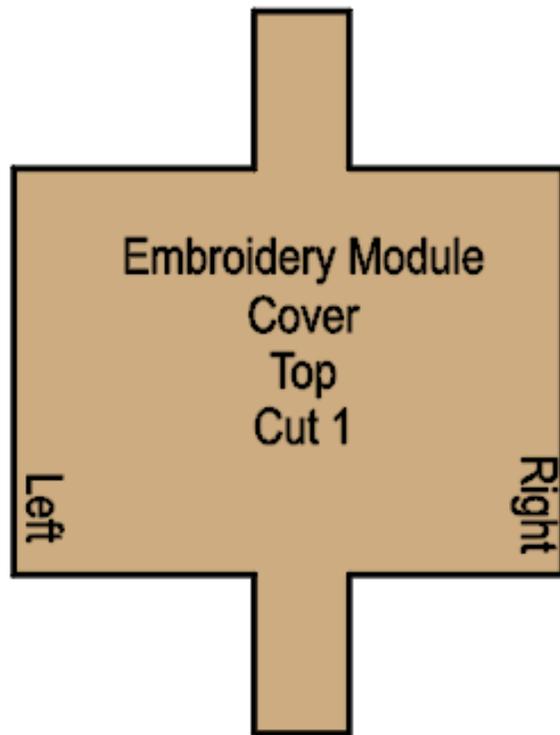


11. Find the centre of the line you just drew.



12. Draw a rectangle to the left of the line that measures the length & width of the Arm.
Match up the centre of the rectangle with the centre line from the previous step.

If your Module's arm is off-centre, use the measurements you recorded earlier to help you figure out the placement.



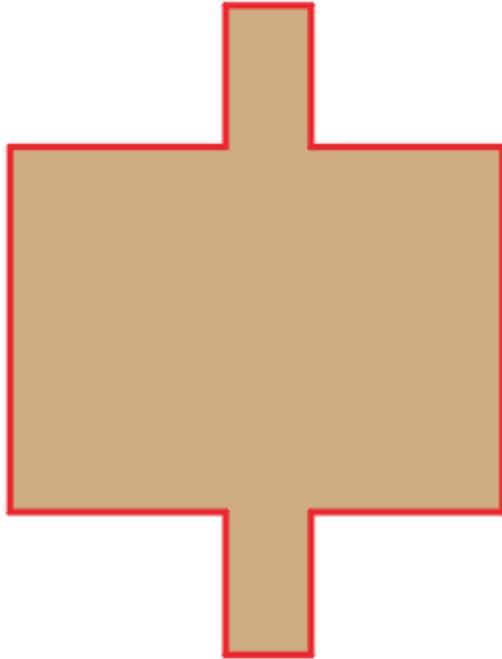
Now you have the Top Pattern Piece.

Add the necessary information on to the pattern piece but don't cut it out yet.

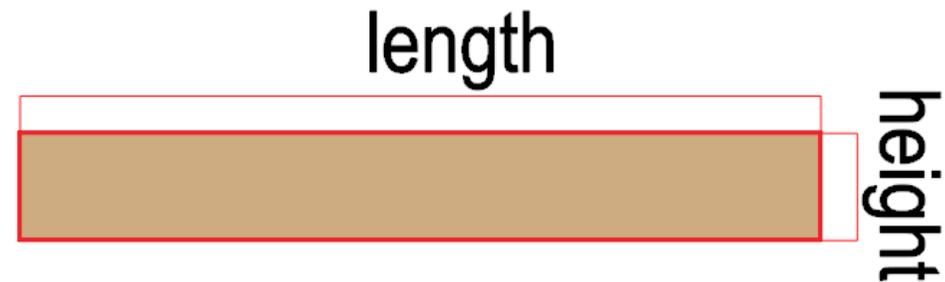
It might be helpful to mark which are the left & right side of the module.

Side Panel Pattern Piece

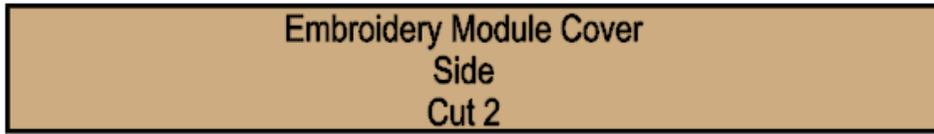
This is the easiest way to do the Side Panel. Of course you can adapt it if you want to try something a bit more technical.



13. Measure around the edges of your Top Pattern Piece.
This will be the length of the Side Panel Pattern Piece.
Mine measured 226cm.



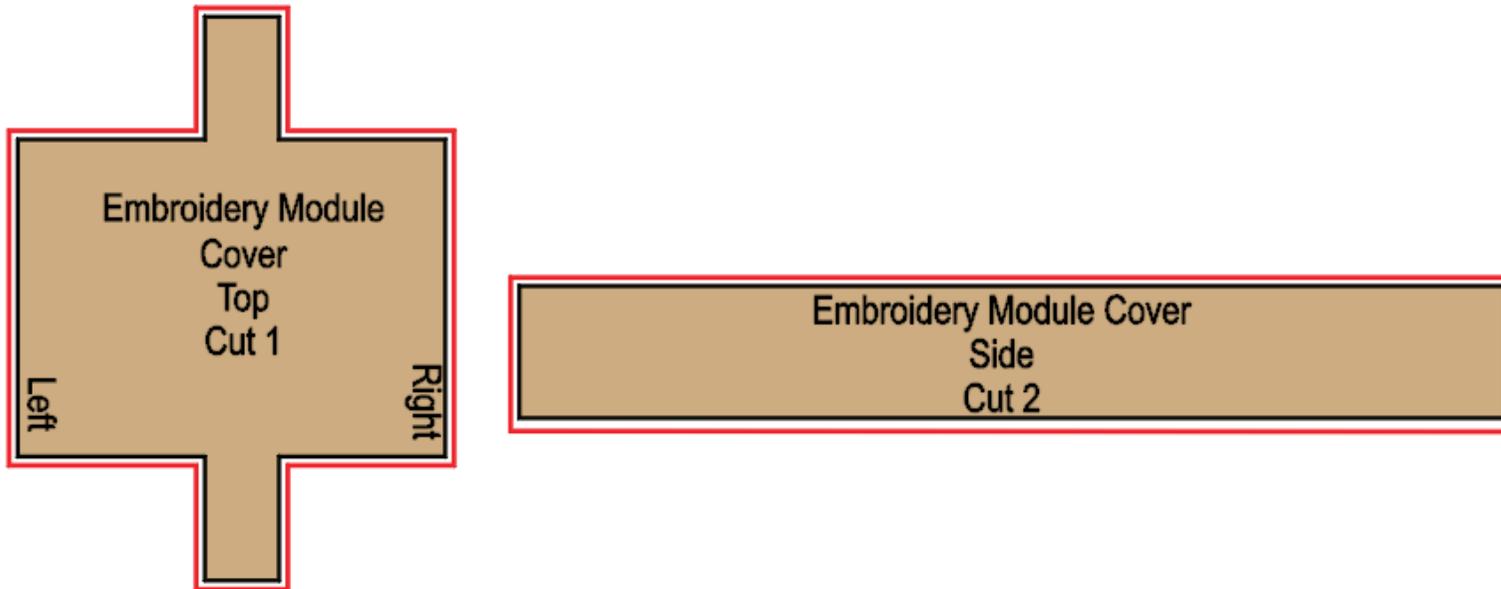
14. Use this measurement to draw a rectangle where the width is the height of your module (step 8).
As my length measurement is longer than 150cm (width of a fabric roll) I divide the length by 2. This means that I will need to cut 2 Side Panel Pieces. My rectangle measures 15cm x 113cm.



Now you have the Side Panel Pattern Piece.

Add the necessary information on to the pattern piece but don't cut it out yet.

Seam Allowances

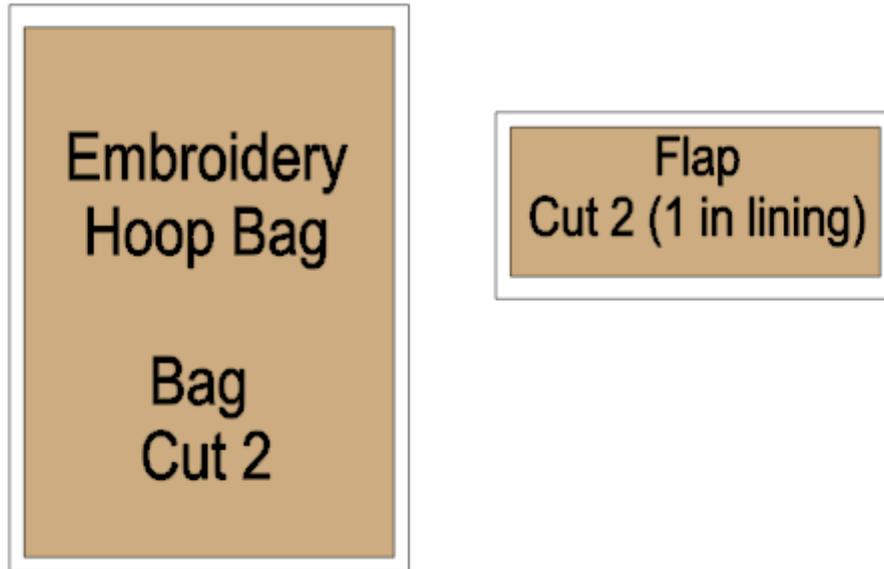


15. Add seam allowances to both pattern pieces and add a hem allowance to the Side Panel Pattern Piece.

I went with a 1cm seam allowance and 1.5cm hem allowance.

Bonus Pattern

I made a little bag for my Embroidery Hoops that could sit on my Embroidery Module under its cover.



Excluding seam allowances, the pattern pieces measure 25cm x 35.5cm for the Bag and 25cm x 10cm for the Flap.

I added 1cm seam allowances to both pieces and 1.5cm seam allowance to the top of the Bag Piece and the bottom of the Flap Piece.