



Australian Technical Production Services

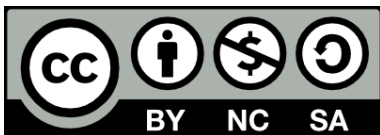
Covers for EV SX100,SX300 Speakers



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Any future updates may be found at : www.atps.net.

While you are under no obligation to send me any updates/improvements or corrections I would appreciate them (contact via the website).

Credits:

This Article contains contributions by:
Richard Freeman

Material needed (for 2 covers)

1575 mm × 1520mm (60 inch) Heavy duty material e.g. Nylon or canvas

- I used 1000 Denier, Waterproof, Cordura rip stop Nylon, while this was very expensive sourced in Australia I found a seller on Ebay who could ship it from the USA for about 1/3 the local cost

1575 mm × 1520 mm Padding

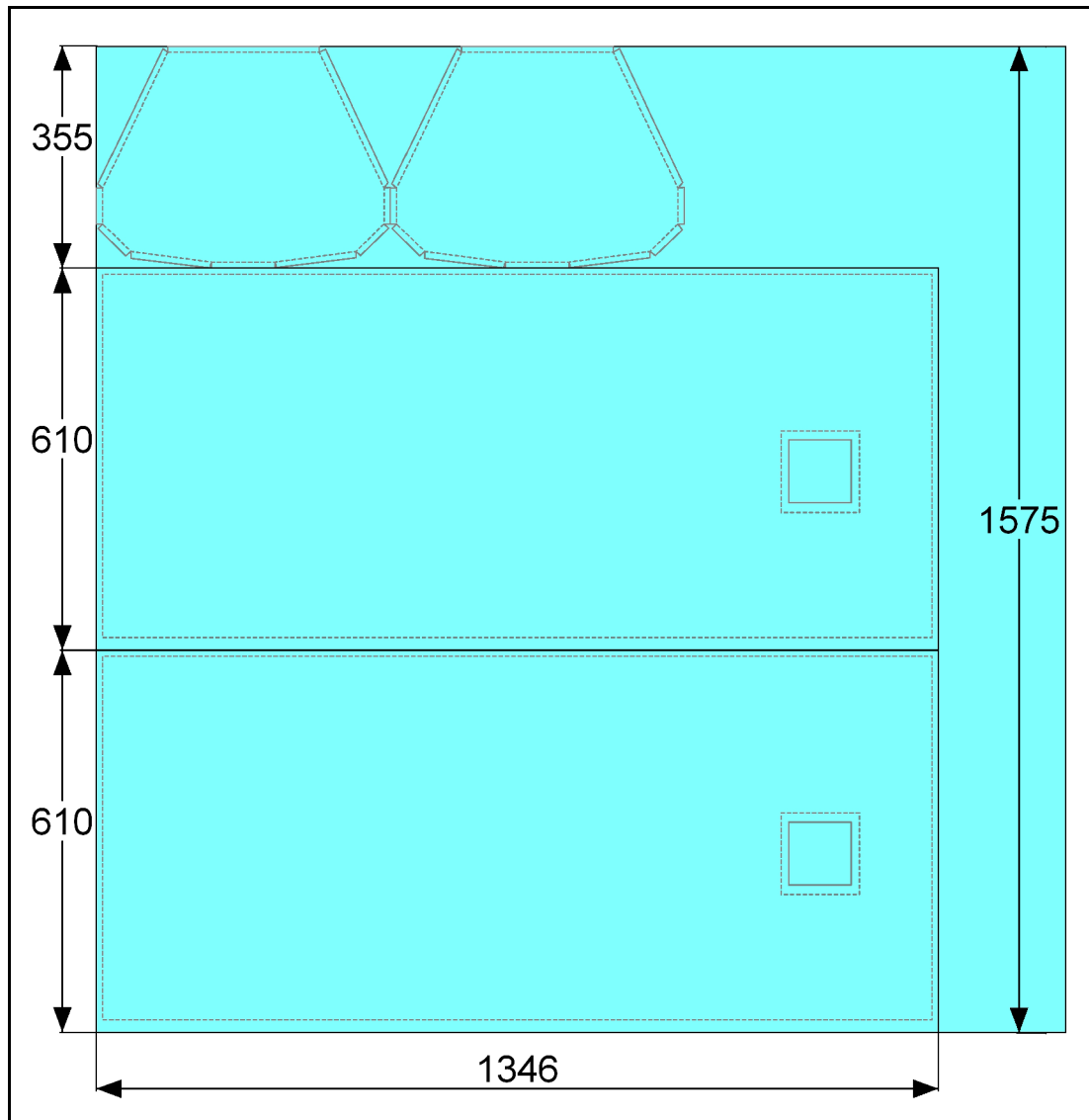
- I used Felt 'Removalist blankets' available at my local hardware store I found this to be more rugged than other velour style foam lined fabrics

Thread

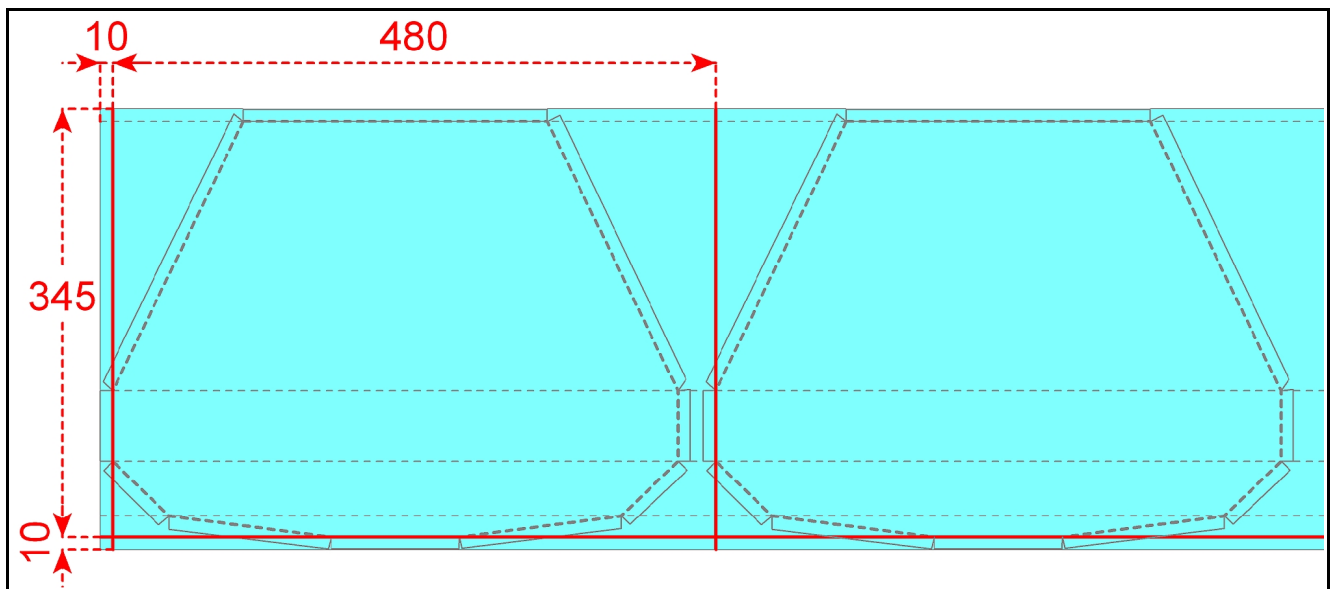
- this needs to be a rugged long lasting thread

Instructions

Cut the Nylon (or other heavy duty material, for the sake of simplicity I will refer to the material as nylon in these notes) as shown in the diagram below so you have two pieces measuring 610 x 1346mm and a third piece 355 x 1520.



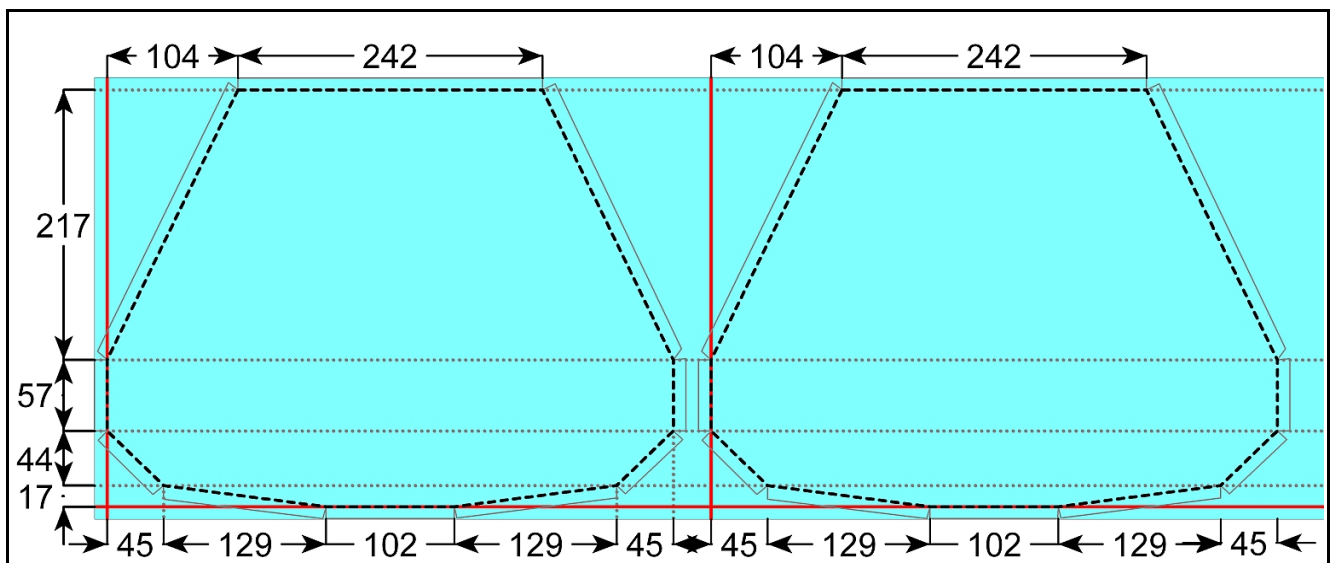
Start with the 355 mm piece of material (from the top section) and measure out a margin 10mm from the bottom, 10mm from the side and another vertical line 480mm from the left hand margin – as shown by the solid red lines in the diagram below.



It is important that the two vertical lines are accurate, parallel and at right angles to the horizontal line, as these are used as references for other measurements.

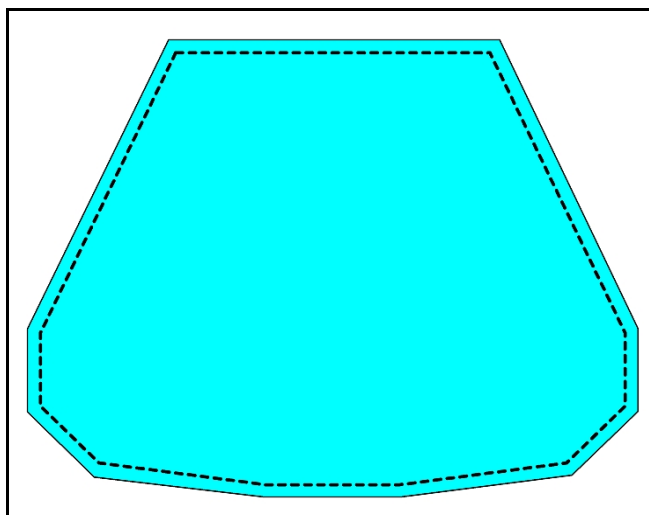
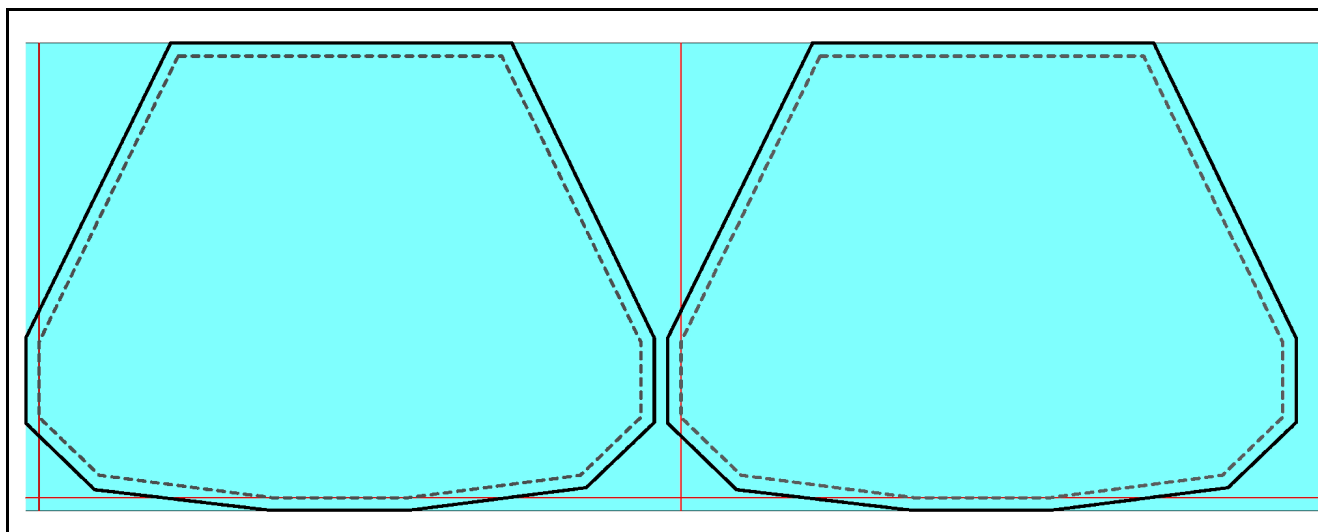
The sections in the margins will be used as sewing tabs so you need to ensure that the margins are wide enough for sewing to (I found 10mm as specified above was adequate).

Using these red margins as the reference, measure and draw out the following shapes shown by the dashed black line (note Grey lines are shown for reference so you can ignore them for the moment) in the following picture:

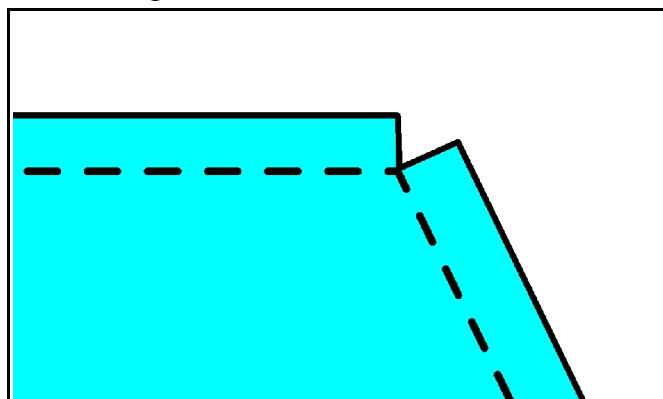


Place this Nylon piece over the felt padding and smooth it so that it is as flat as possible (the felt may not be particularly flat, but get it as good as you can) and then run a seam along the dotted lines – sewing the nylon to the Felt.

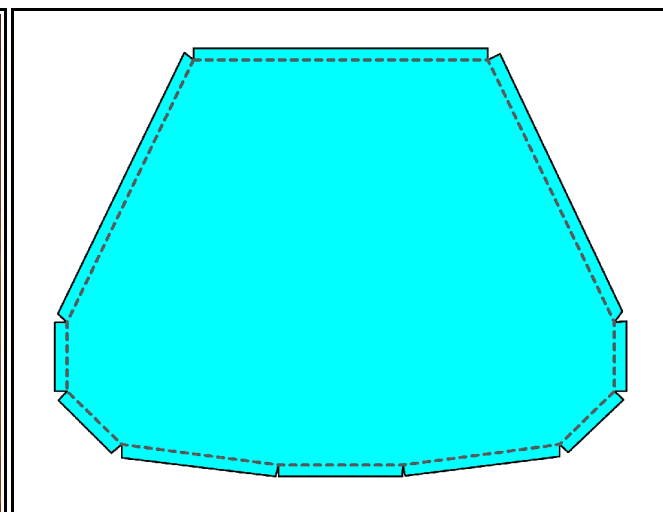
Cut about 10mm around the seams (as shown by the solid black lines in the following picture), while this does not need to be hyper accurate, the gap between the seam and the edge will be used later for sewing the cover together so you do need to ensure you allow an adequate margin.



Cut a V shaped notch in each corner – go as far as the seam, but be very careful not to cut or damage the stitching.

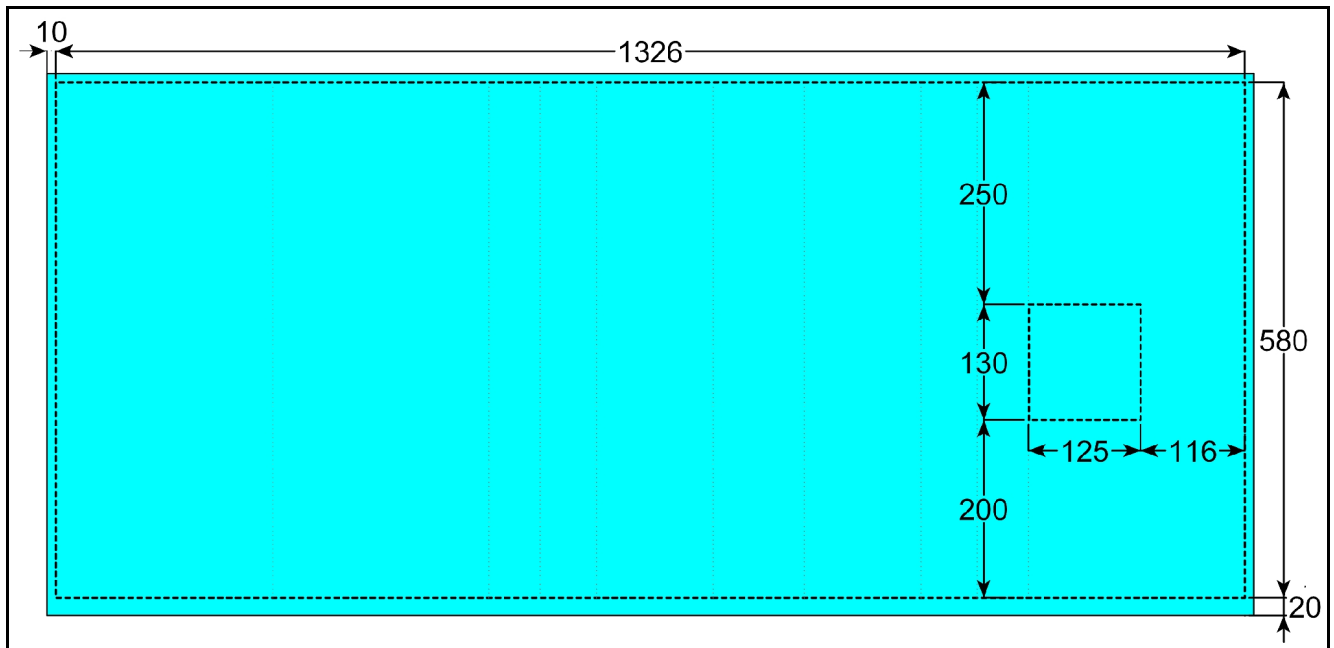


This should leave you with the two top-pieces looking something like this:

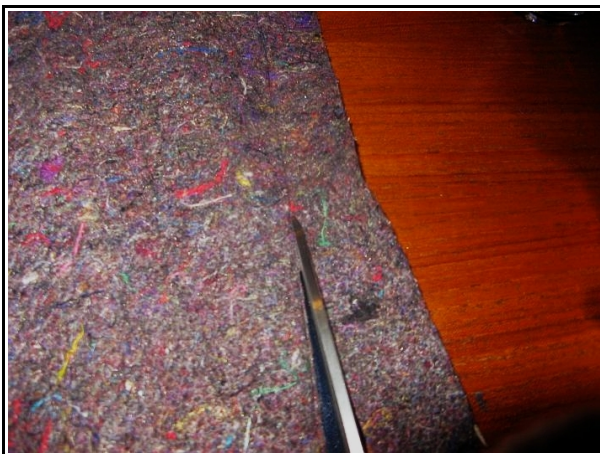


Note that the felt in the photo is not perfectly flat, this is normal and the felt will stretch and pull into shape. So while you want to keep the measurements on the nylon accurate and keep the Felt as smooth as possible, don't worry too much about any remaining unevenness.

Take the larger (610 x 1346) pieces of Nylon and measure out the following (shown by the dashed black lines):



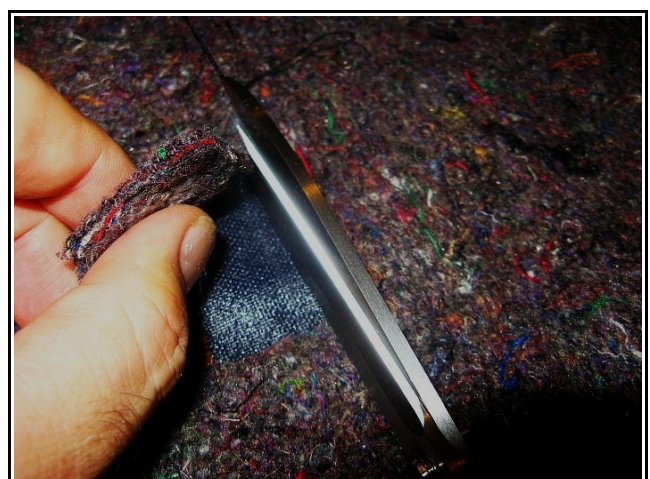
Place the nylon over the felt backing and using a straight stitch sew the nylon to the felt, by running a seam down each of these lines – this should leave you a seam 10mm in from the top and each side, 20mm from the bottom and a 125 x 130 mm Rectangle 116mm from the Right hand seam (126mm from the right hand edge).

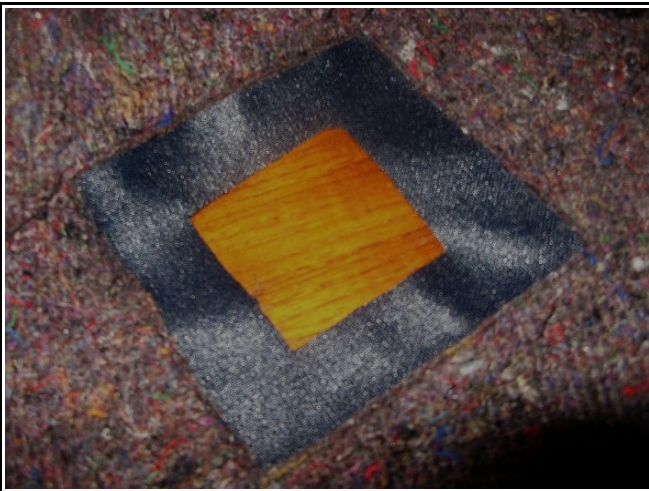


Turn this piece over and cut the felt padding away along just below the seam 20mm from the bottom. when you have finished trimming away the felt, fold the flap of nylon over the felt and sew in place using a zigzag stitch.

I found this preferable to trying to line up the edge of the felt as the felt did not always sit particularly flat, nor did it have neat straight edges.

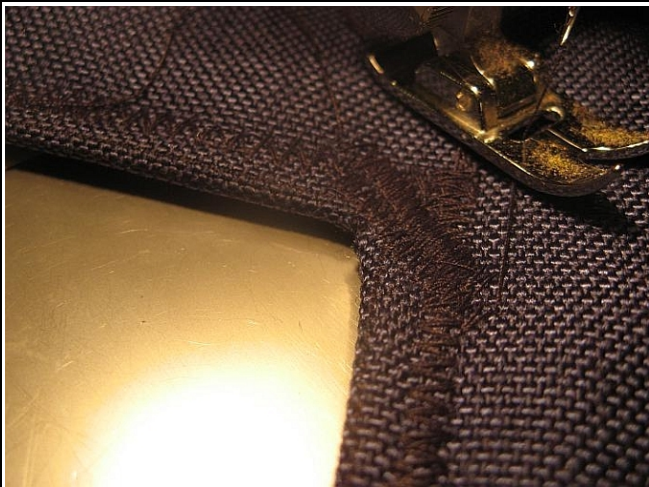
In the square for the handle cut out a square hole through the nylon about 15mm in from the seam, then trim the felt from the inside of the the handle





This should leave the handle looking (viewed from the felt side) something like this.

cut diagonally from the corners of the hole through the nylon to the corners of the felt and fold the tabs of nylon in then sew these tabs in place with a zigzag stitch.



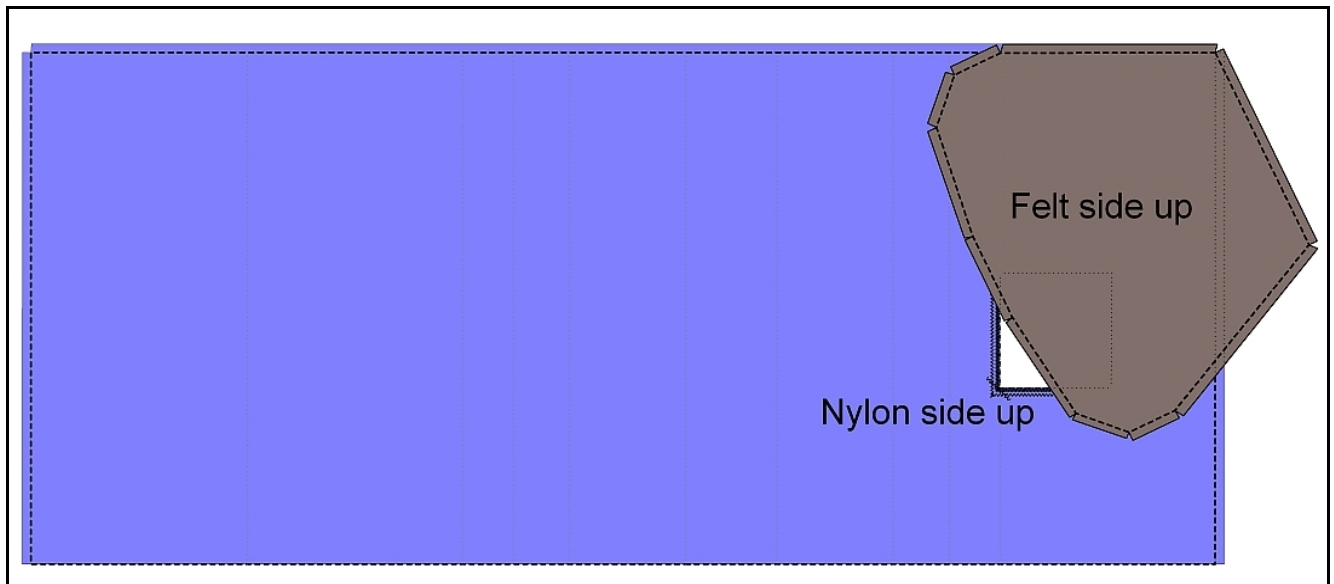
Next run a seam diagonally across each corner (as shown in the picture on left) to reinforce them.



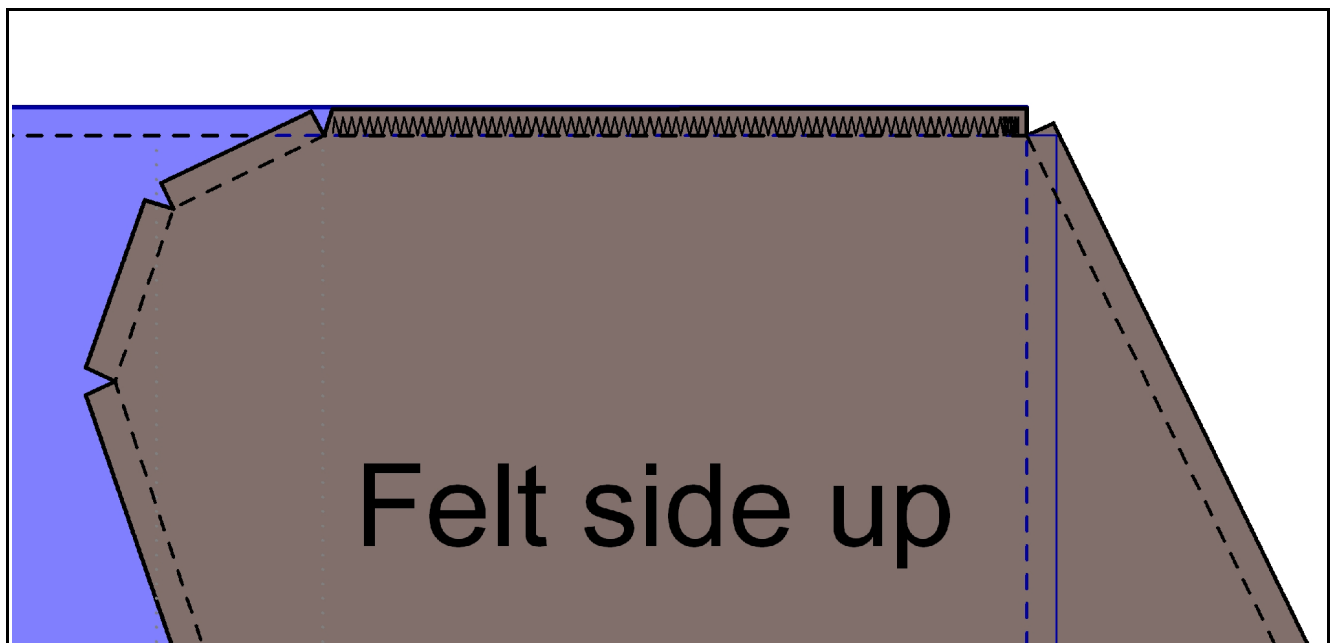
The next tip may be well known to sewing machine aficionados, but as a complete novice I was pleased to find that when I set the sewing machine to give me a tight zigzag stitch with one side of the zigzag off the edge of the hole, the machine provided a nice, neat, reinforced seam (similar to the stitching around button holes) along the edge of the handle (as per the pictures above and on the left).



Line up the top piece Face down (, i.e. nylon side down) with the side piece (face up) as shown below.



Sew the Tab on the top piece to the start of the Tab on the side piece using a zigzag stitch as per the following picture – note you are lining up the Tabs as per the Blue lines showing alignment of the side piece underneath.



Pull the next tab (on the top piece) up in line with the tab on the side piece and sew this in place also



EV SX100,SX300 Covers

Continue around the top piece sewing all the tabs to the tab along the top of the side piece when you have finished sewing the top piece this should bring the two end tabs of the side piece together, sew these and trim any excess you may have which should leave you something like this:



Pull this inside out – and the cover is now completed!

