Repairing a smartboard which has alignment problems.

This document will tell you how to take apart a smartboard (600 series) and pull the top white layer tight.
You will need:
A Philips screwdriver
Gaffer tape or strong tape

Please note: this procedure worked for me and has done on 7 boards. I do not take any responsibility if you break your board by following these instructions.

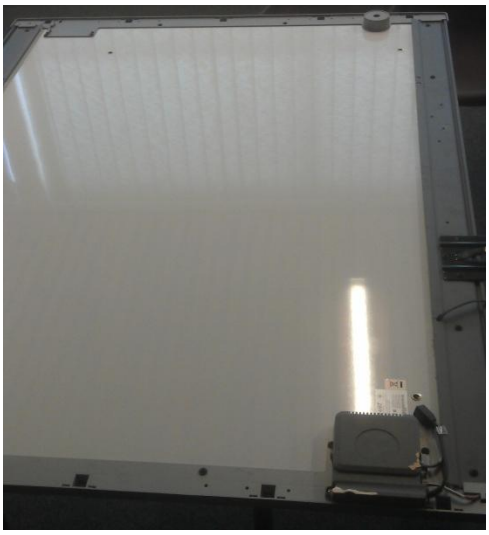
I thought of this procedure when we had a problem with a board which refused to align and wouldn't draw a straight line… see http://www.youtube.com/watch?v=RxGKRM7gows

Step 1:

Lay the board face down on a table that you can walk around and so the edges are hanging off the edge.

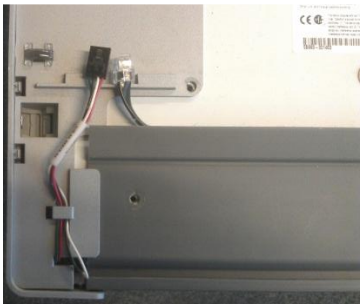
Step 2:

Remove all the black screws from the grey plastic and the mounts at the bottom of the board, you will also need to remove the silver screw from the control panel.



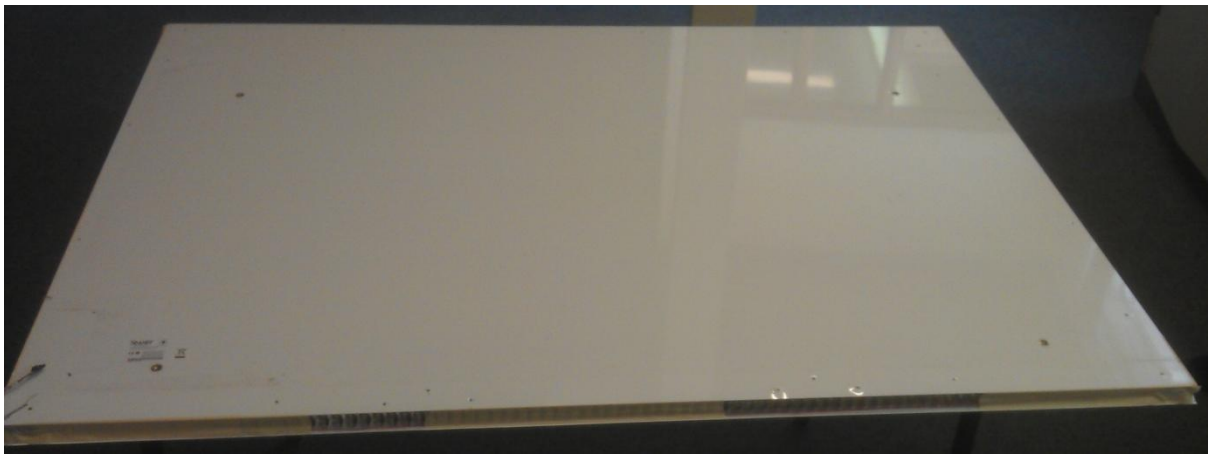
Step 3:

Remove the Control box first. Unclip the Red, green, white and black cable clip and the RJ11 connector from the control box then slide the grey plastic borders off the board. The sides come away first then the top and bottom.



Step 4:

You should now have a board that looks like this….

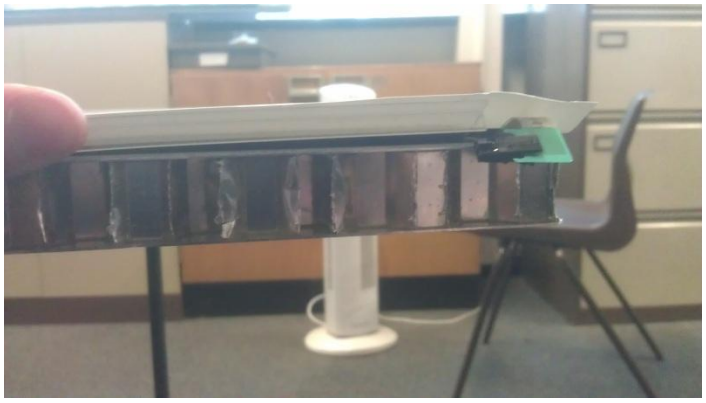


You need to flip the board over so the side which you project on to is facing up. Unlcip the connections from the 3 corners of the board. Remember which colour wire goes where though.
The Red wire runs along the bottom of the board. The Green wire runs on the same side as the red.
The White wire runs up the side of the board. The Black wire run on the same side as the black.

Remove the masking tape from around the board and stick to a safe location, you may need to use this later.

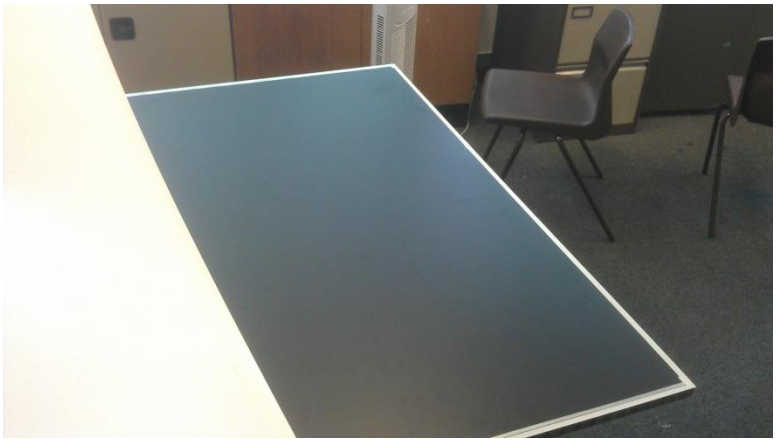
Step 5:

Carefully lift up the plastic frame the top layer is stuck to. It's only slightly glued and requires a firm push up. You will hear a snap, don't worry, it's only the plastic coming away from the board. Go round the whole board until the top layer is lying flat on the board.

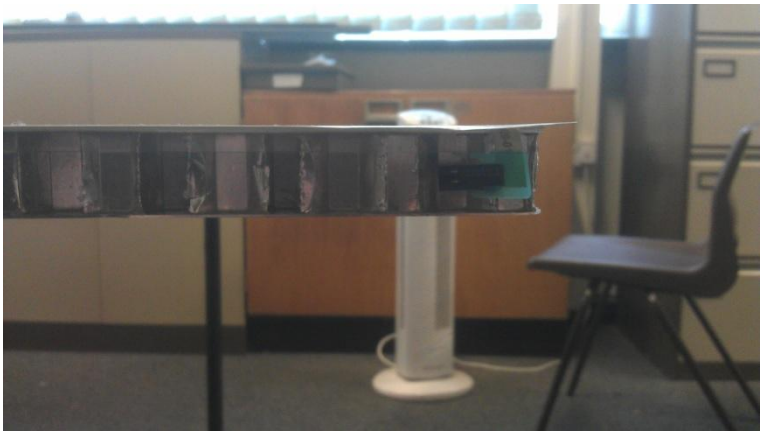


Step 6:

Slowly lift the top layer off the board and then place it back into place making sure that the edges are tight over the bottom board.



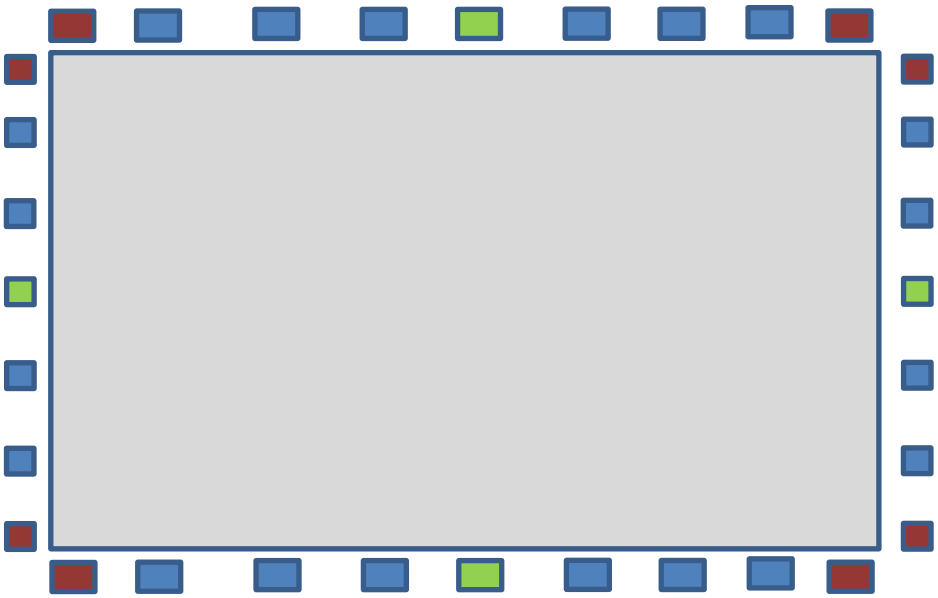
Make sure your corners are tight and they fit without any ripples on the top layer



Step 7:

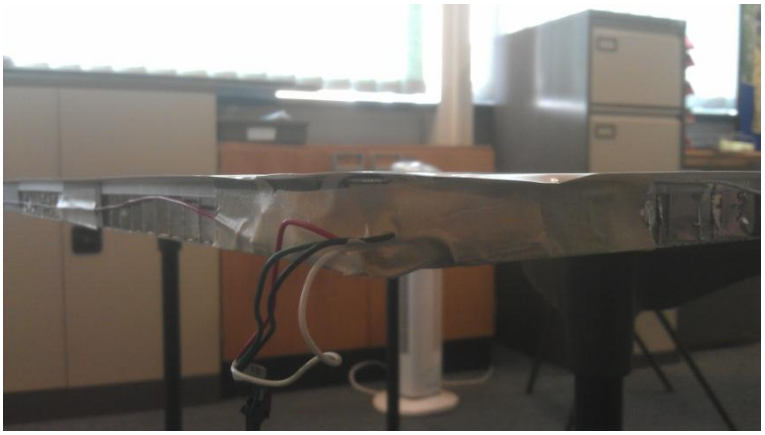
You will need some strong tape to secure the board in place. I used 2 inch gaffer tape and the pieces were between 2.5 and 3 inch long.

Across the top and bottom I used, 9 pieces of tape and down the sides I used 7 pieces. Here is where I used them (number will depend on the size of the board. The boards I have are the SB660s). The Red squares are the areas I applied tape to first making sure they are secured tightly. The Green were next, again making sure they are tight and then the blue were to make sure the top layer didn't move.



Step 8:

Once you have secured the top layer, connect the clips to the board, making sure you connect the right wire up to the right place. Use the masking tape to hold the cables in place and also to hold the connector in place.



In the end you should have something that looks like the above.

Step 9:

Flip the board over and slide the grey borders on starting with the top and bottom. Secure them in place then slide the sides on. Make sure you have the side with the LED status indicator on the correct side. Screw them into place

Hopefully the board will be as good as new once you have performed these steps.