TAM TB

ASSEMBLY INSTRUCTIONS

TAM TB COMPONENT LIST

Main frame:	1. Top half sub-assembly – Quantity 1 2. Bottom half sub-assembly - Quantity 1 3. Joining profiles – Quantity 2 4. M6 screws – Quantity 8 *(2 are attached to each joining profile **item3**)*
Sub-frame:	5. Top sub-assembly *(fitted to Main frame top sub-assembly)* 6. Bottom sub-assembly *(fitted to Main frame bottom sub-assembly)* 7. Vertical square sections – Quantity 4 8. Self threading screws – Quantity 8 9. M6 screws – Quantity 6 *(2 each holding **items 5&6** onto **items 1&2**)*
Internal hiding Flanges	10. Top flange (velvet covered) – Quantity 1 11. Bottom flange (velvet covered) – Quantity 1 12. Right flange (velvet covered) – Quantity 1 13. Left flange (velvet covered) – Quantity 1 14. Self threading screws – Quantity 14
External Flanges:	15. Top Flanges (velvet covered) – Quantity 2 16. Bottom Flanges (velvet covered) – Quantity 2 17. Right Flanges (velvet covered) – Quantity 2 18. Left Flanges (velvet covered) – Quantity 2 19. Self threading screws (black) – Quantity 40
Fabric:	20. Enlightor 4K (white) - supplied in cardboard tube 21. Black backing fabric – supplied folded
Electronics:	22. Main connection box – Quantity 1 23. Internal connection box – Quantity 1 24. Connecting cable – Quantity 1
Accessories:	25. Clear acrylic tubes – Quantity 2
Tools:	26. Plastic spatula – Quantity 1 27. Hex key – Quantity 1 28. Plastic sheet – Quantity 1 *(packed with **item 26**)*

You will also need the following items:

Adhesive tape, tape measure, spirit level, Pozi-drive screwdriver, sharp scissors.

Assembly advice

- Ensure that there are two people available – One person cannot handle the entire assembly alone.

- Clear a space sufficiently larger than the external dimensions of the screen with access to all sides – ideally this should be a soft surface to protect the screen from damage.

- Lay the two crates flat on the floor and carefully remove the lids. The lids are stapled and bonded in place – please be careful that no staples are protruding from the crate after removal of the lid both for your own safety and for the safety of the delicate velvet covered surfaces of the screen.

- Carefully remove all of the components from the crates and check them against the components list.

- Locate the plastic sheet (packed with the plastic spatula) and spread it out onto your soft assembly surface.

- A number of the components are colour coded with round coloured stickers.

PLEASE RESPECT THE COLOUR CODING.

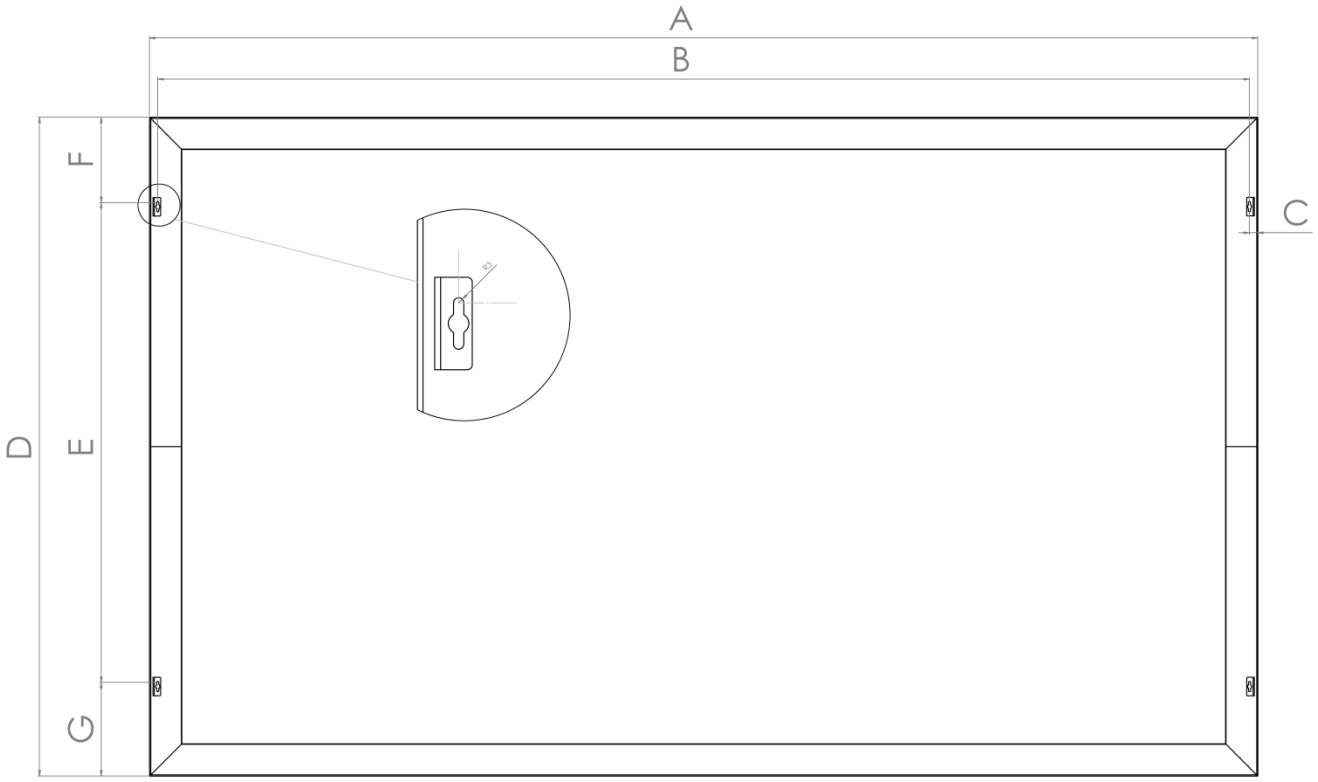
Your screen has been pre-assembled and tested in the factory and the colour coding is important.

- Determine the positions of the wall screws (1/4" or 6mm) from the following drawings and install the 4 wall screws. **Please double check the dimensions given in the following table against your actual screen** – Specials may occasionally have different dimensions. (best to check before you drill!) – use wall plugs of suitable size and strength for the screen.

WARNING!

DO NOT OPERATE THE MOTORS AND MASKS WHEN THE SUBFRAME IS NOT FIXED TO THE MAINFRAME OR BEFORE THE ASSEMBLY IS COMPLETE.

Mounting screw positions

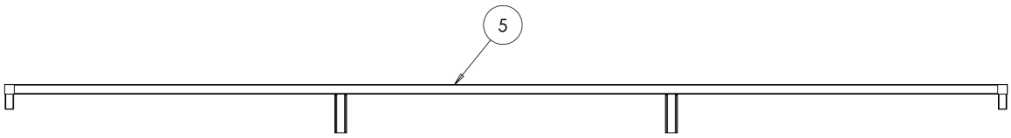


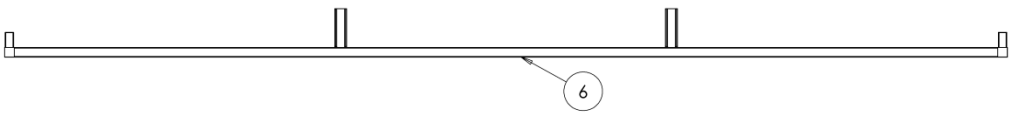
Dimension mm	A	B	C	D	E	F	G
TAM 120 TB	3236	3188	24	1922	1400	249	273

TAM TB SUBFRAME ASSEMBLY

1. First remove the Top (5) and Bottom (6) sub-assembles from the main frames by removing the two M6 screws in each – Keep the screws safely as you will need them to bolt the finished sub-frame into place. The Bottom subframe assembly has the counter-balance weights strapped to it for transit. Simply cut the ties and lay the weights gently aside **(BEWARE – they are VERY heavy)**

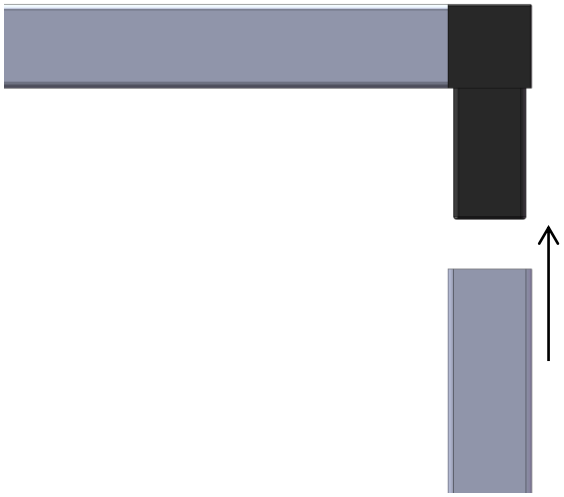
2. Lay the two parts on the floor as shown below.



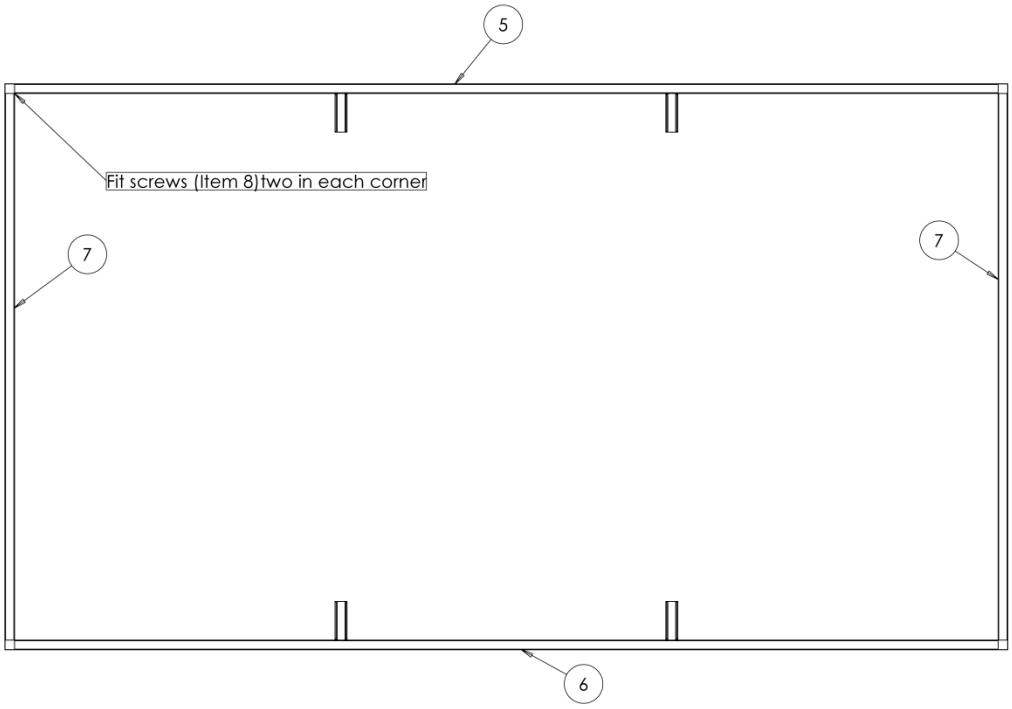


TAM TB SUBFRAME ASSEMBLY

3. Next insert the two side tubes (7) using the colour coded dots to get them in the correct position. The tubes slide over the plastic end pieces on items (5) and (6).

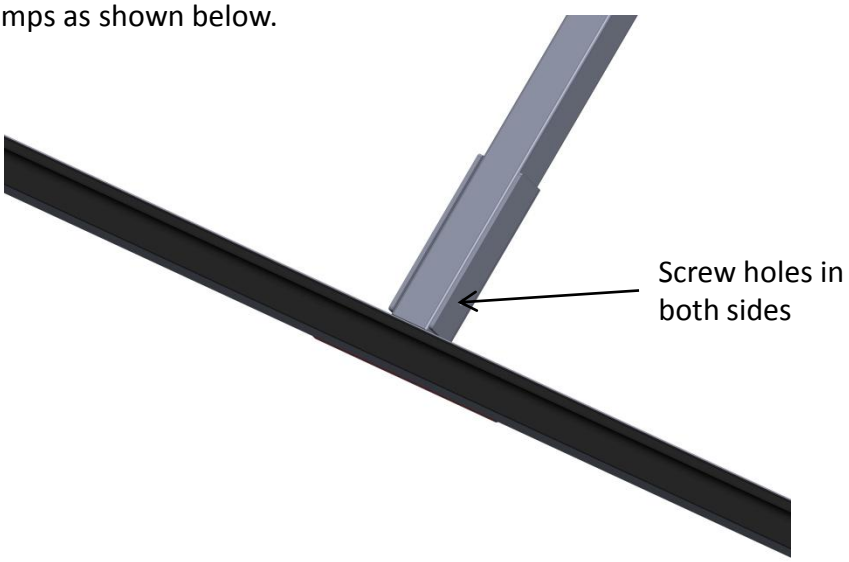


4. Now fit the self threading screws (8) into the pre-drilled holes to fix the vertical sections to the plastic corner pieces. DO NOT TRY TO MOVE THE SUBFRAME AT THIS POINT.

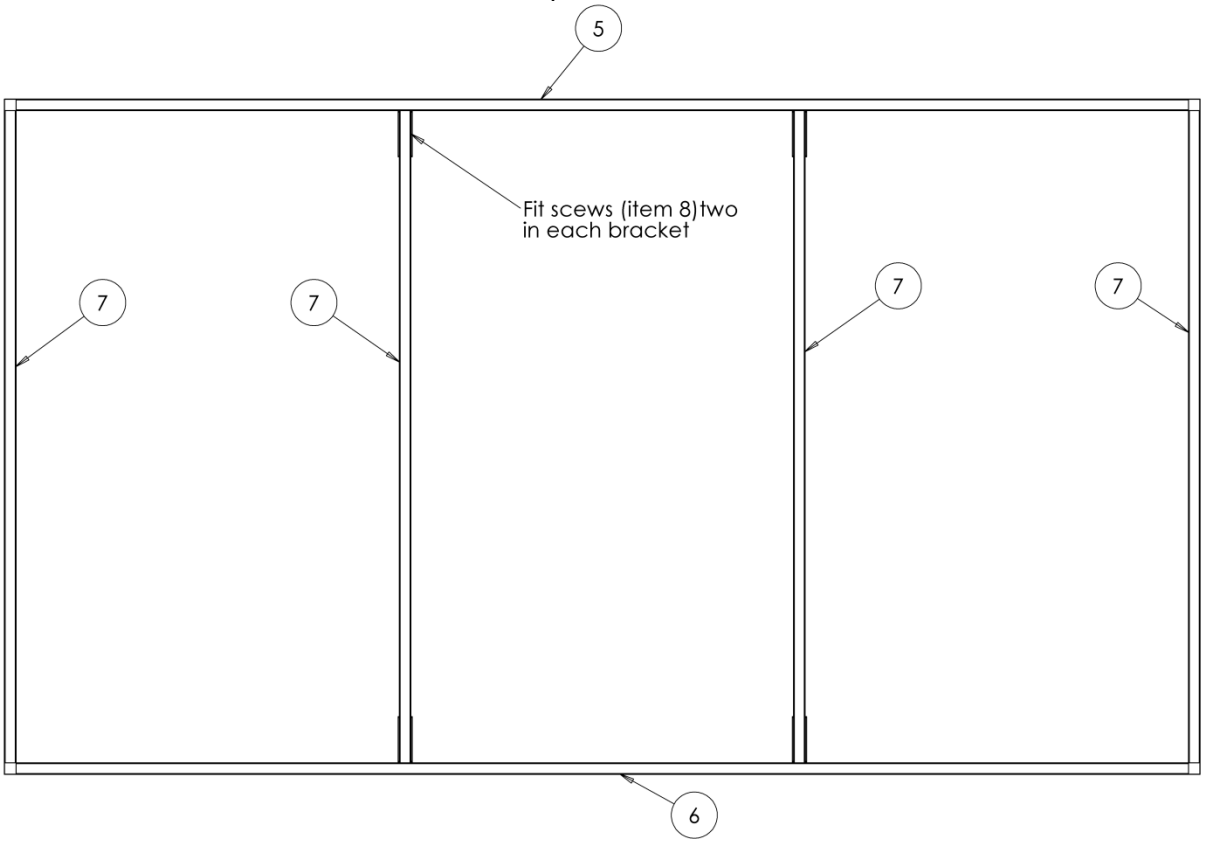


TAM TB SUBFRAME ASSEMBLY

5. Next insert the two remaining tubes (7) into the metal saddle brackets using the colour coded dots to get them in the correct position. The tubes slide into the saddle clamps as shown below.

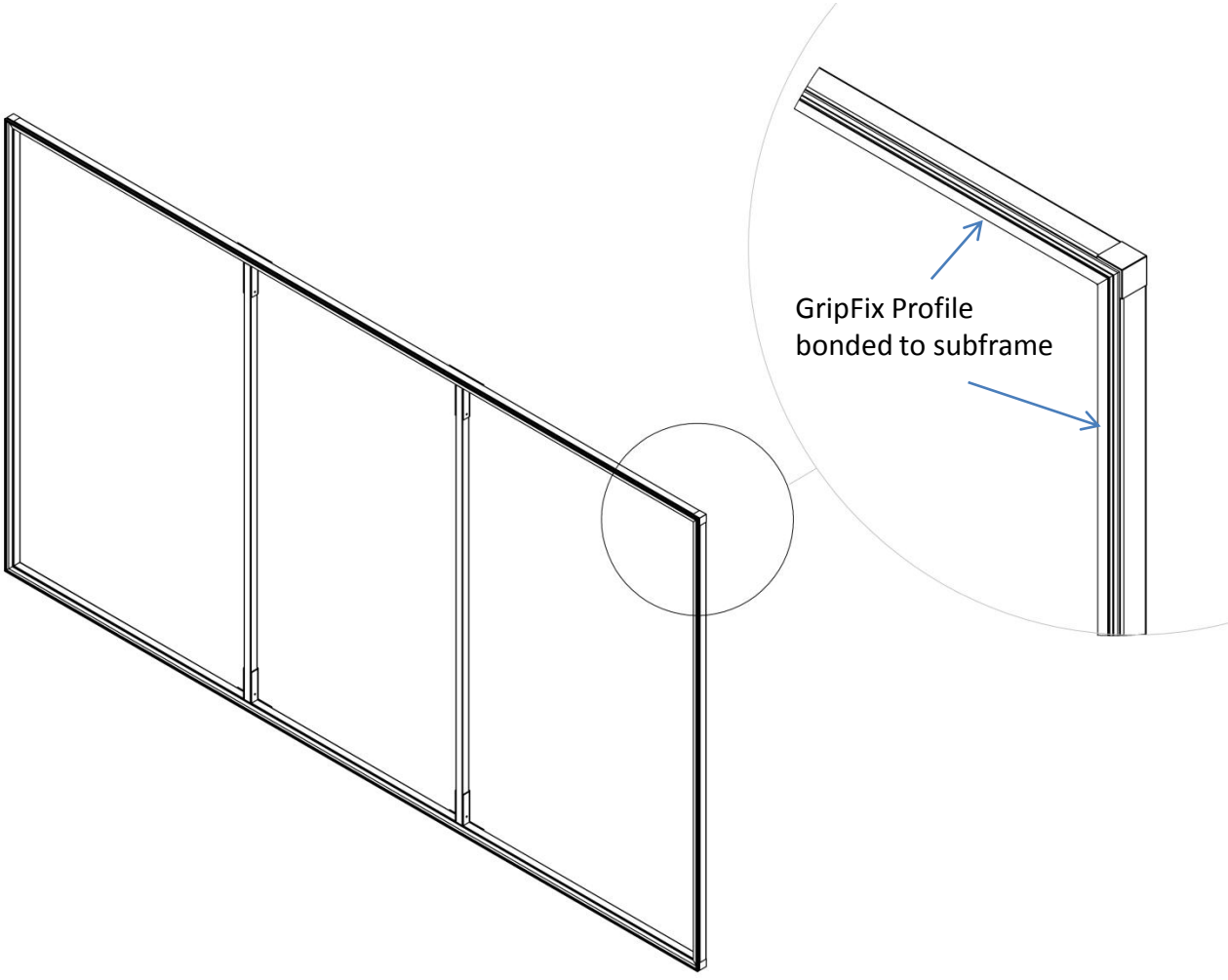


6. Now fit the self threading screws (8) into the pre-drilled holes to fix the vertical sections to the metal saddle clamps.



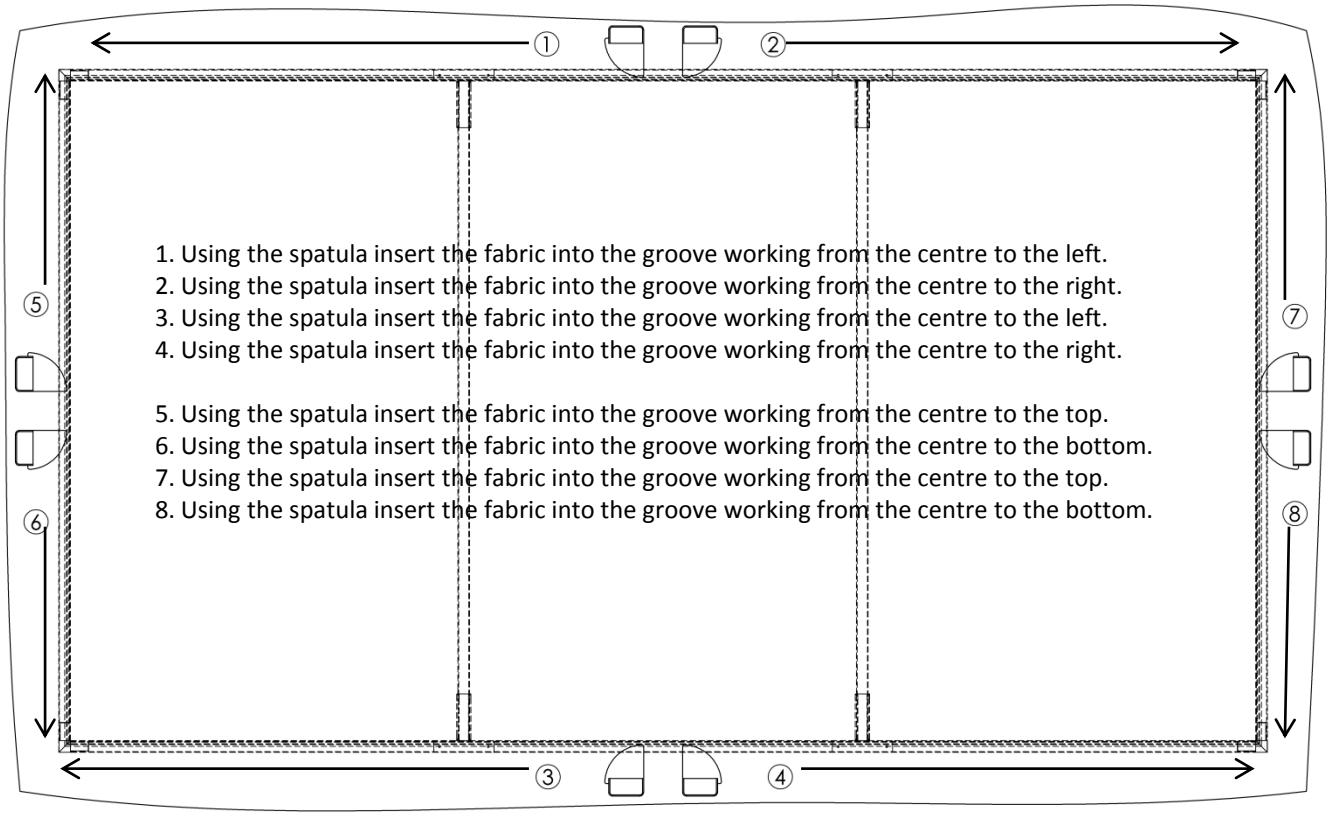
TAM TB SUBFRAME ASSEMBLY

Your finished sub-frame should look like the drawing below.



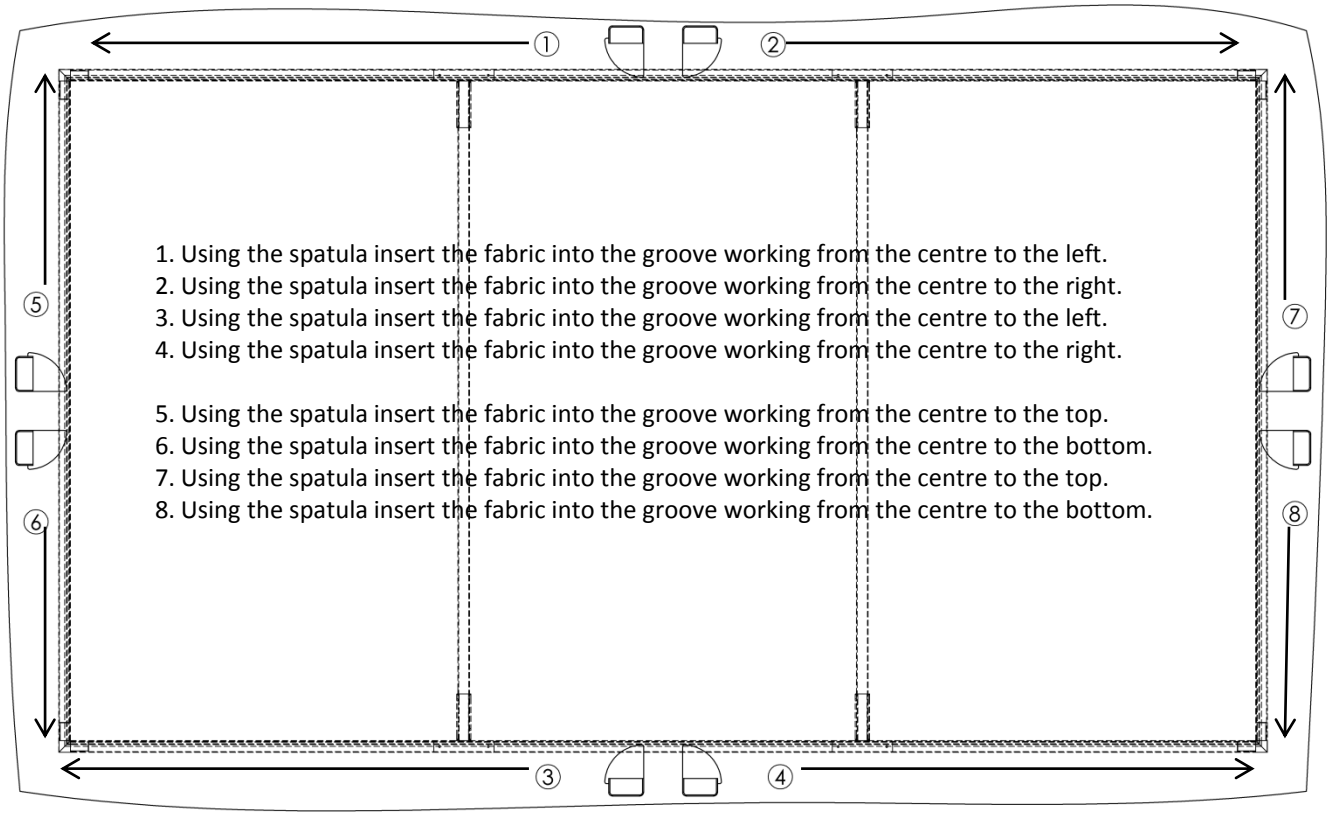
TAM TB SUBFRAME ASSEMBLY

7. It is now time to fit the black backing material. Remove the black material from its bag, unfold it and lay it over the finished subframe. The material is larger than the subframe. Using the plastic spatula supplied follow the sequence as shown below to insert the fabric into the GripFix profile. Try to get the material taut and wrinkle free. Try a rolling action with the spatula to aid fitting.



TAM TB SUBFRAME ASSEMBLY

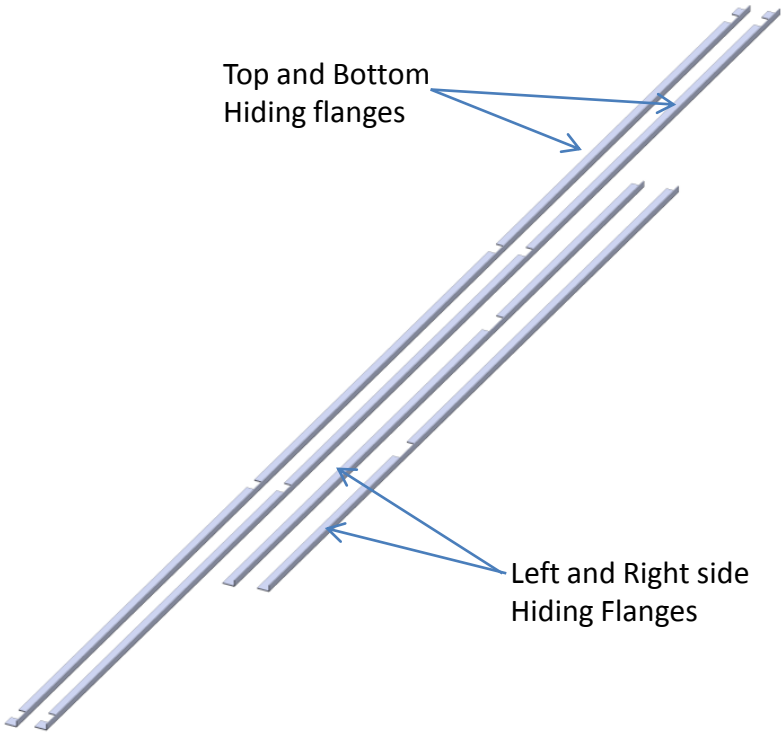
8. It is now time to fit the white Enlightor material. Before handling the screen material it is recommended that you wash your hands to prevent accidental transfer of dirt to the projection surface. Carefully remove the material from the cardboard tube and lay it over the subframe, on top of the black material. Using the same technique as for the black material, push the white fabric into the GripFix profile such that the black and white material are gripped in the same groove. The material must be taut and wrinkle free.



9. Once the material is neatly fitted into the GripFix profile and the projection surface is free of wrinkles, with a pair of sharp scissors neatly and carefully trim the excess black and white material so that it is flush with the outside of the sub-frame.

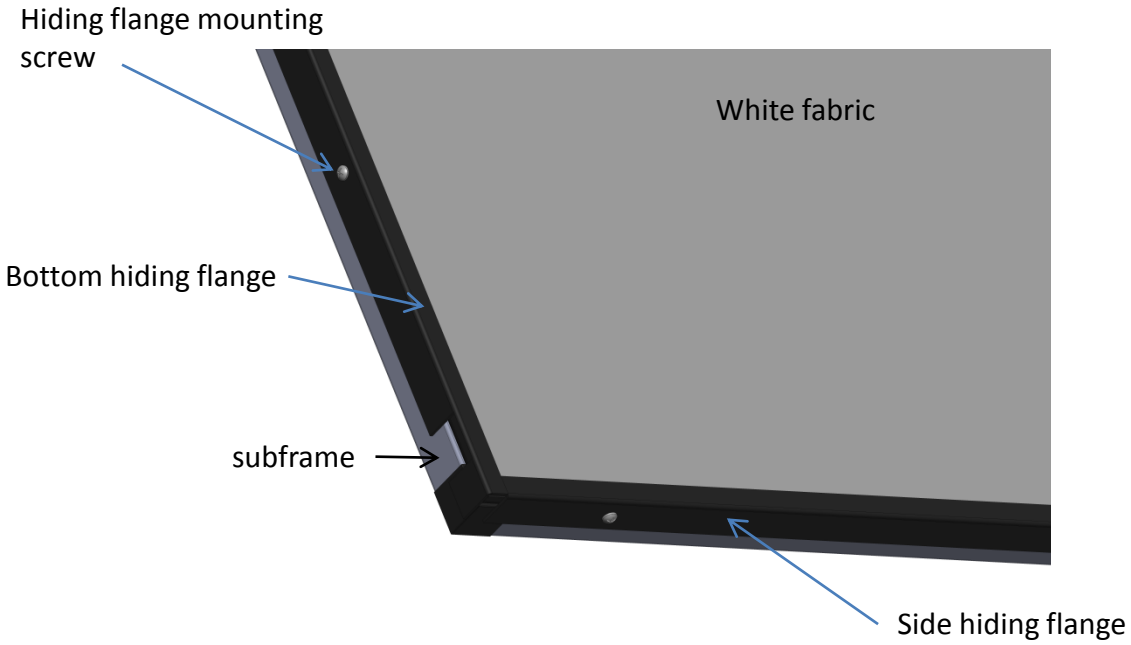
TAM TB SUBFRAME ASSEMBLY

10. It is now time to fit the internal hiding flanges. These parts are L-section in shape with a velvet covering. Their purpose is to hide the area of the material which is tucked into the GripFix.



First, with two people, turn the subframe assembly up-side down on the floor so that the white fabric is on your clean plastic sheet. Next, using the colour coding, mate the internal hiding flanges with the colour coding dots on the upper surface of the sub-frame assembly. The holes are pre-drilled. The hiding flanges are then screwed in position using the self threading screws provided. The diagram below shows how the hiding flanges fit relative to the subframe, the grip fix and the material.

TAM TB SUBFRAME ASSEMBLY



Your subframe is now finished. Whilst you make the rest of the screen let the subframe stand vertically against a wall where it will remain clean and safe until it is fitted.

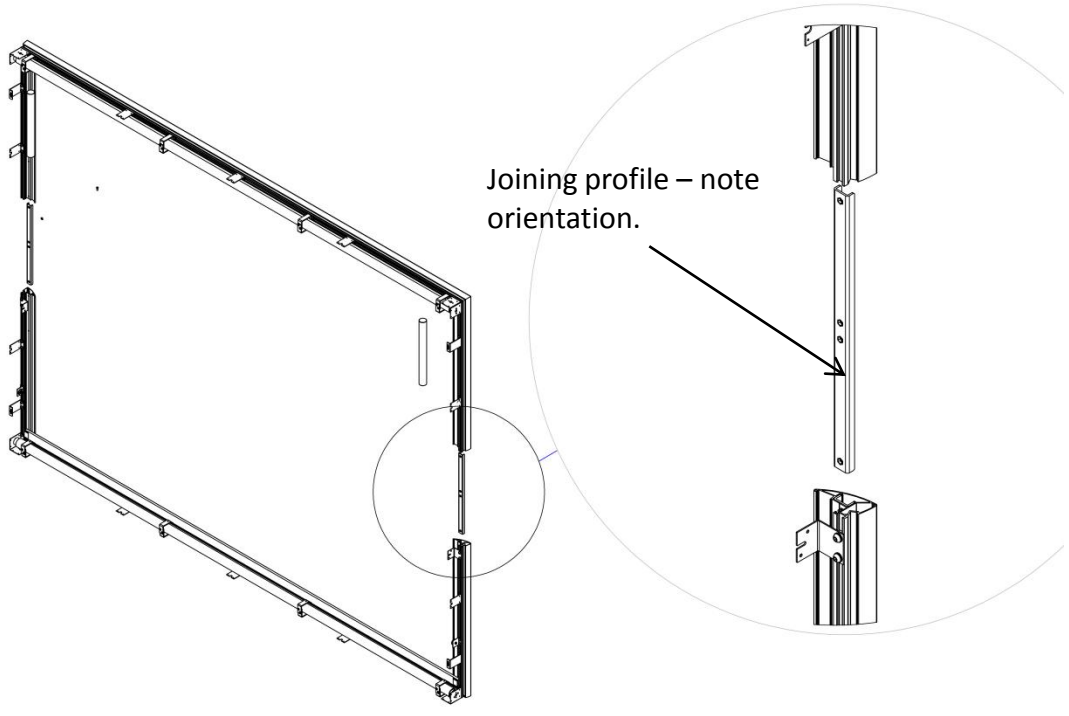
TAM TB MAIN FRAME ASSEMBLY

Now that your subframe is finished it is time to assemble the main frame of the screen. The main frame has been shipped in two halves, each of which is packed separately. You have already unpacked these in order to get access to the upper and lower subframe sections which were attached during shipping.

The lower half of the main frame can be identified by the “Screen Excellence” badge on its lower left corner and by the large cylindrical weights which were cable-tied to the subframe during transit.

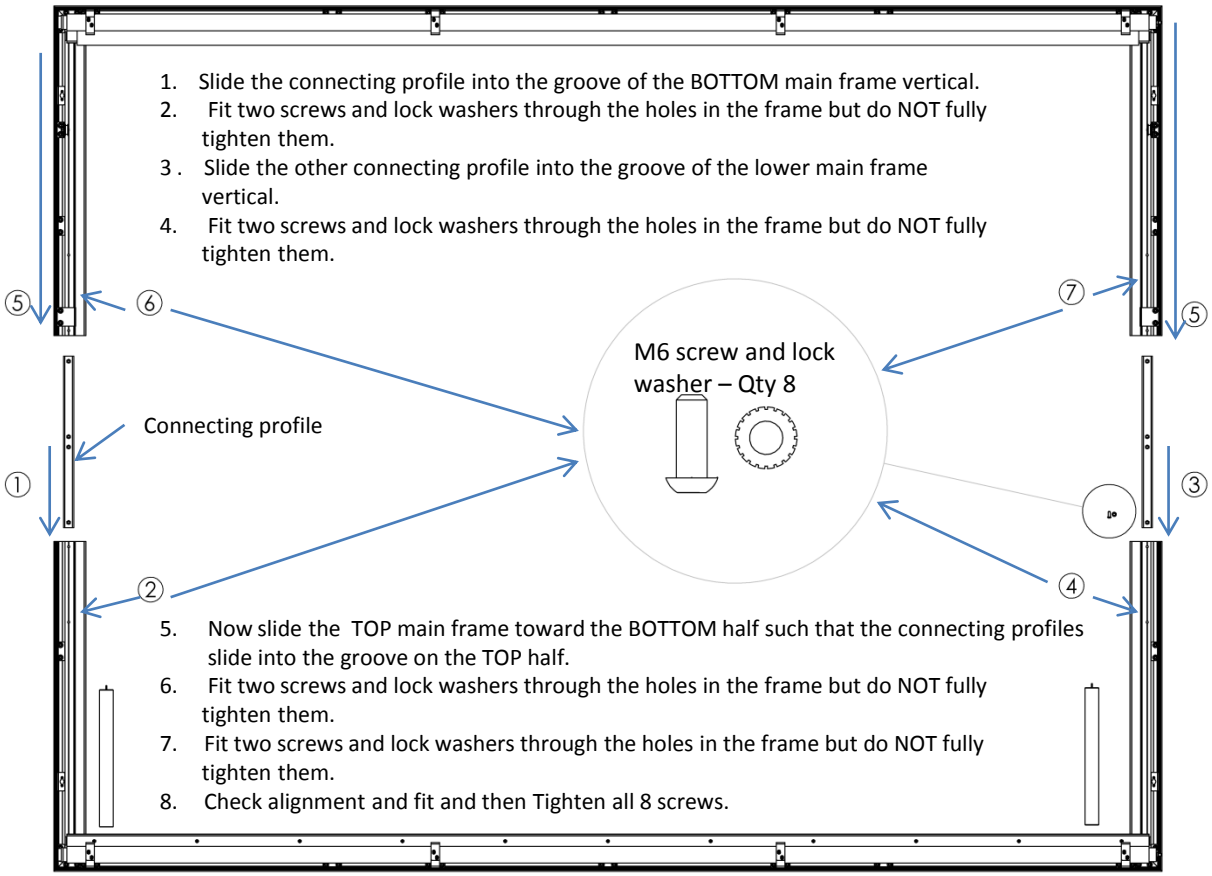
Make sure that your plastic sheet is clean before proceeding. Please also be aware that the velvet covering on the screen can be easily damaged by rough handling – it is best to avoid touching it with anything hard.

1. Lay the two halves of the screen on the plastic sheet with the velvet side down and lay the joining profiles between them. It is important to install the joining profiles the correct way up – see the detail picture below.



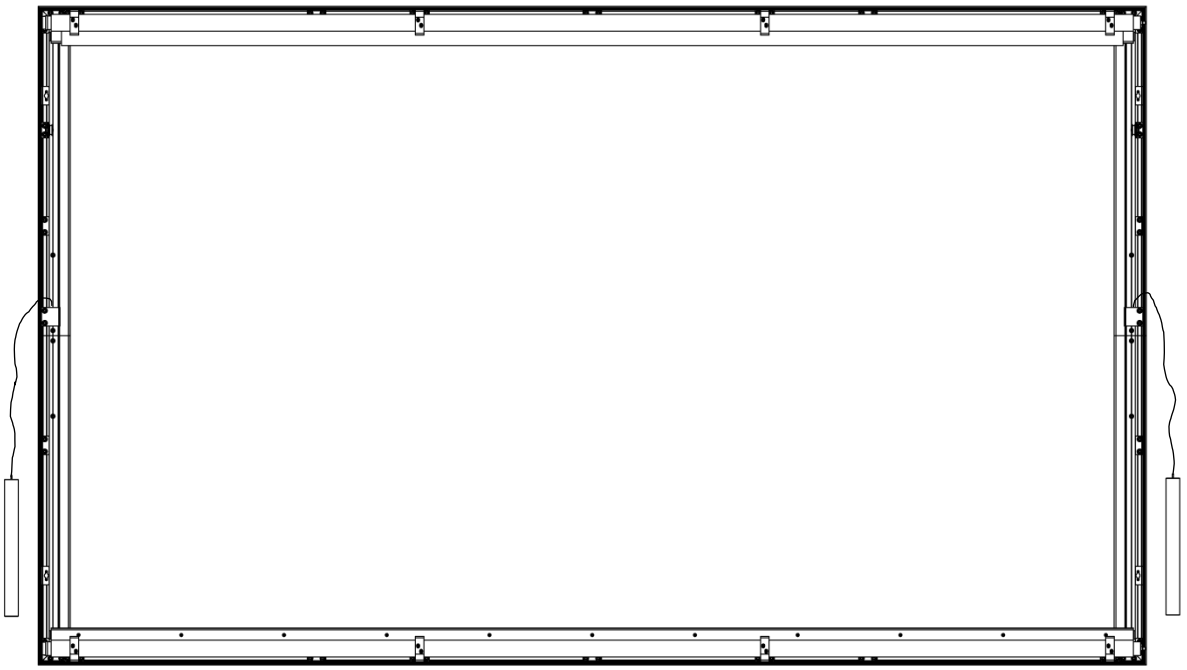
TAM TB MAIN FRAME ASSEMBLY

2. Follow the sequence laid down below to join the two halves of the main screen.



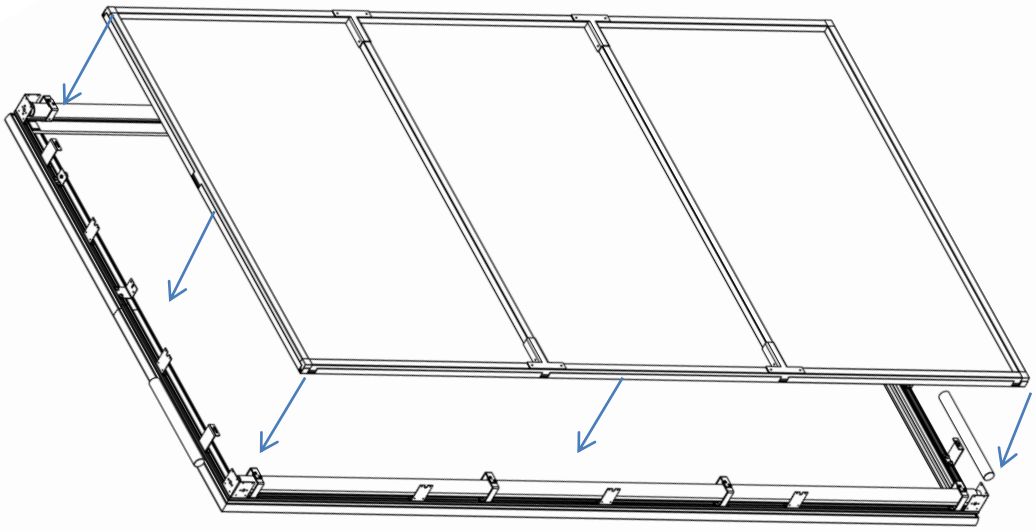
TAM TB FULL ASSEMBLY

3. With the main frame now assembled, carefully lay the cylindrical counter-weights on the floor outside the frame and unwind the counter-weight cord from the main frame brackets.



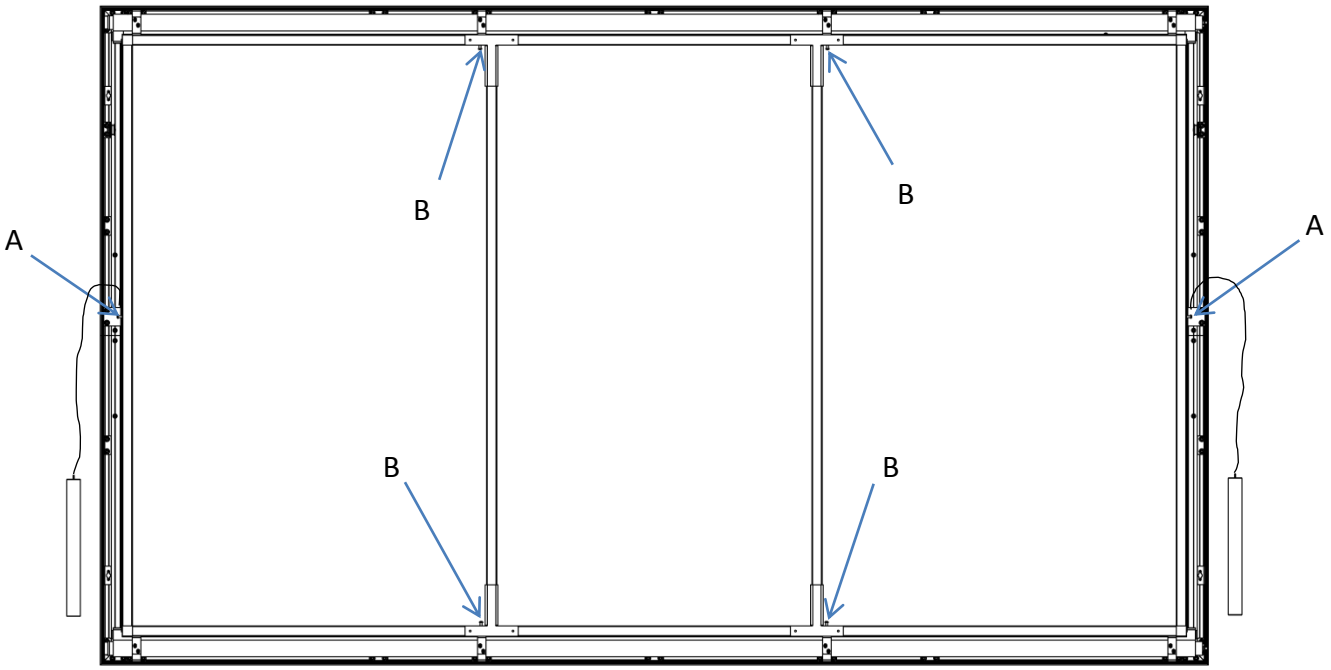
TAM TB FULL ASSEMBLY

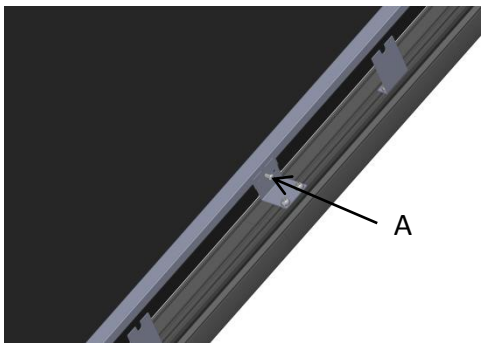
4. The next stage is to fit the subframe to the main frame. The subframe is marked TOP and must be presented to the main frame in the correct orientation.

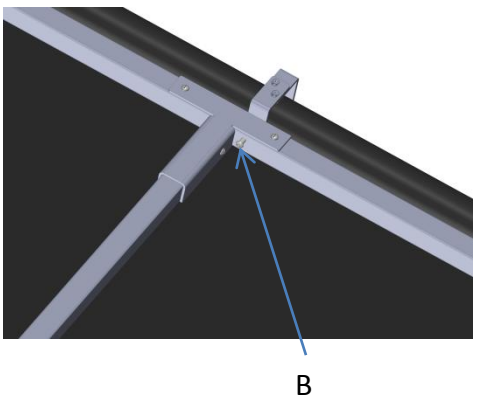


TAM TB FULL ASSEMBLY

5. The subframe is fixed to the main frame using 6 M6 screws. The diagrams below show their locations.



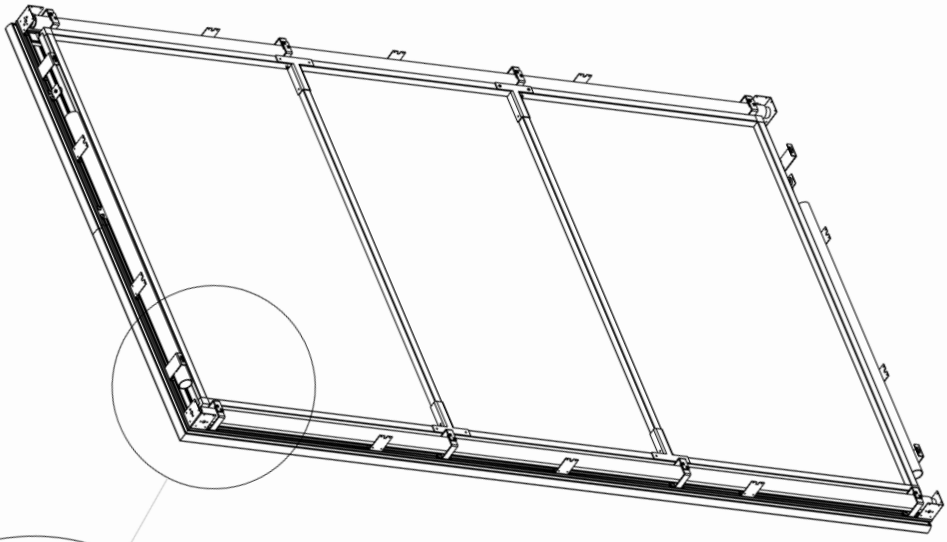


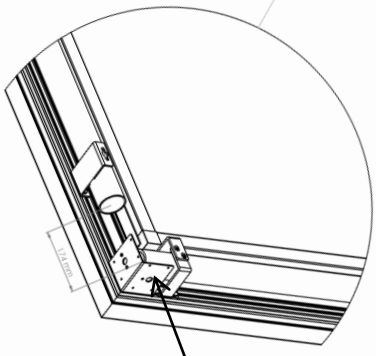


TAM TB FULL ASSEMBLY

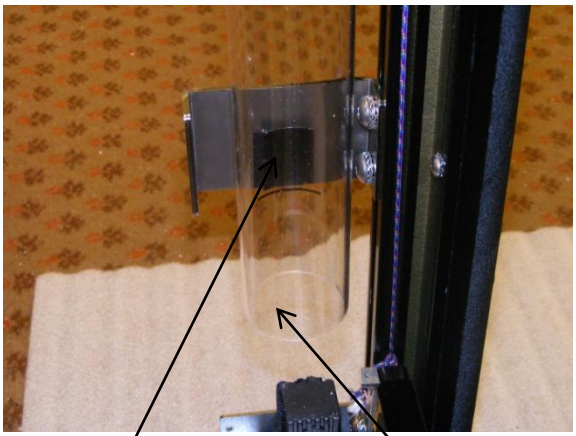
6. With The screen still lying flat on the ground, working on one side at a time, carefully lower the cylindrical counter-weight into the top of the clear acrylic tube until it is almost fully inside.

   Then carefully fit clear acrylic tubes to the back of the vertical parts of the main frame. The tubes are held in place with velcro pads and the bottom of the tube should be set at approximately 174mm from the bottom face of the motor bracket as shown in the diagram below.





Motor bracket

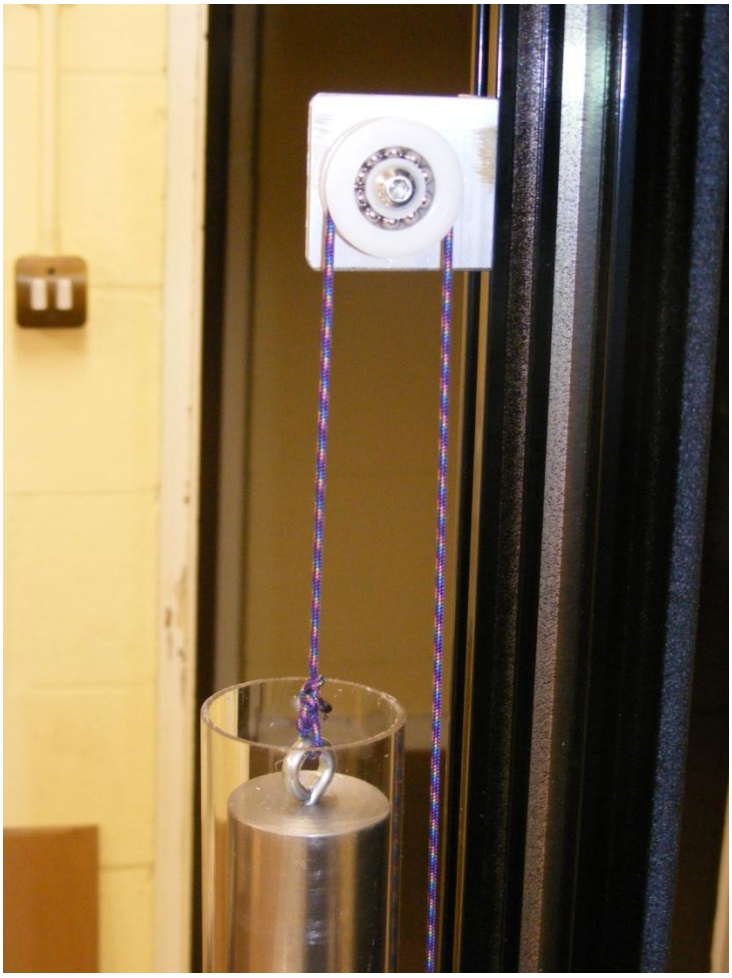


Velcro pad

Clear acrylic tube

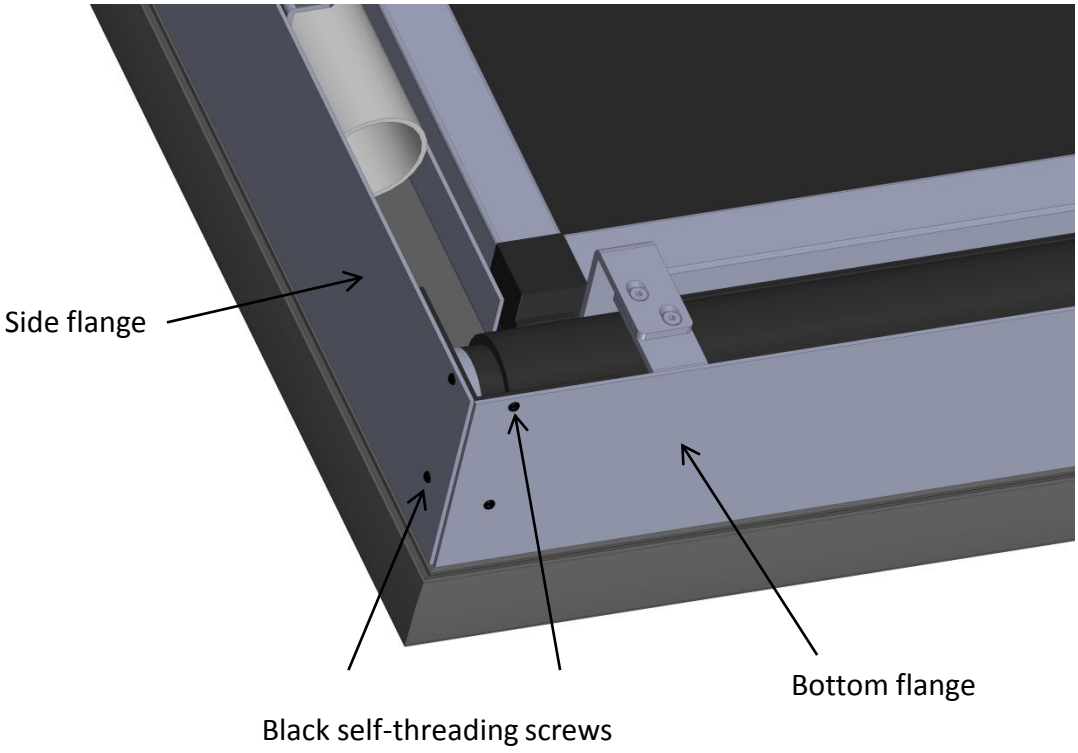
TAM TB FULL ASSEMBLY

7. With The screen still lying flat on the ground, route the cord from the counter-weight carefully over the small white pulley above the top of the clear tube. Apply a little tension and ensure that the cord is taking the most suitable and direct route to and from the counter-weight. The lower end of the cord is attached to the end of the lower mask.



TAM TB FULL ASSEMBLY

8. With The screen still lying flat on the ground, fit the External flanges to the top, bottom and sides. The external flanges are flat aluminium panels covered in velvet on the outer faces. These flanges are held in place with the black self threading screws. There are pre-drilled holes in the flanges beneath the velvet.



TAM TB FULL ASSEMBLY

9. Carefully check that all the screws are tight and that the Counter-weights are in their tubes with their cords over the pulley and a little tension in the cords.

   Now with two people carefully lift the screen into the upright position watching the heavy counter-weights as you do so.

   The screen should now be carefully leant against a wall or bench with access to the rear side of it, taking care not to damage the velvet.

10. Connect the 2 motors to the corresponding XLR 4 pin type connectors on the small internal connection box (23) – this connector box is supplied with velcro pads to allow positioning behind the screen as required.

11. Connect this internal connection box to the CB2/5 or CB2/10 control unit with the cable supplied. Also connect the CB2/5 or CB2/10 to the mains.

12. Operate the motors to check the stop adjustments using the OPEN and CLOSE green buttons on the top right of the remote control hand unit.

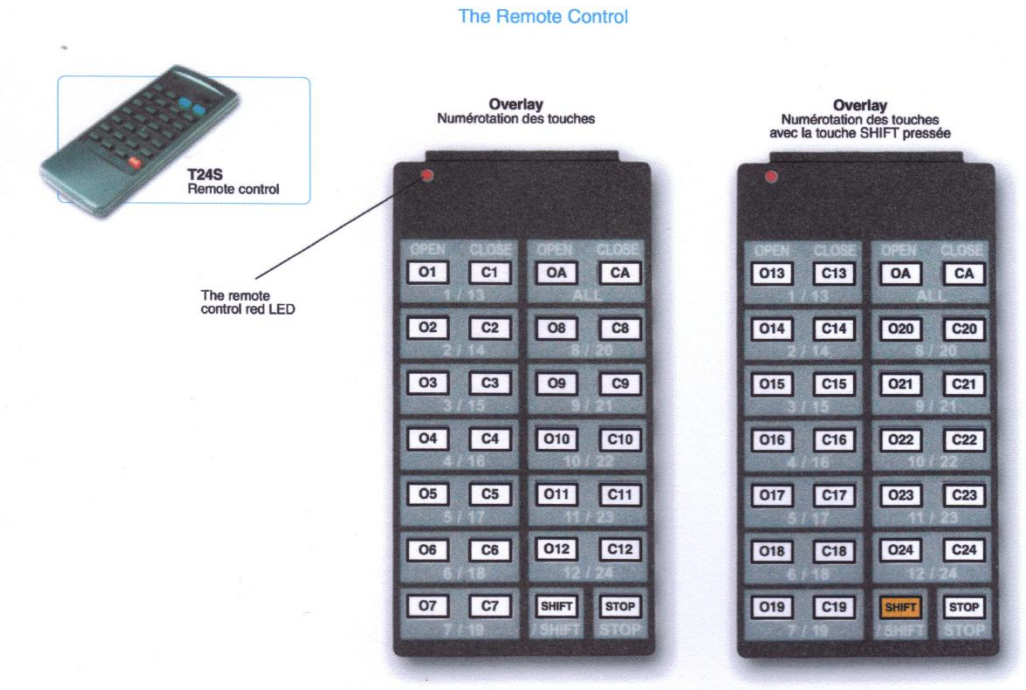
NOTE: all stops and travel have been set and checked at the factory but vibration during transit can cause them to wander and they may require re-adjustment.

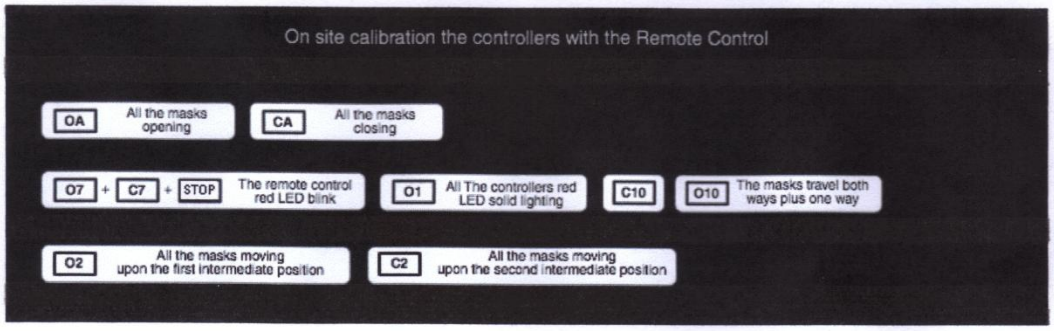
13. Check carefully in the fully OPEN position that when the leading edge of the mask is at rest, the motor is off (put your hand on the roller and check that it is not vibrating or over heating. If the motor is still on, it means that the stop adjustment has been lost during transport. The stops will then need to be re-adjusted. In the OPEN position, the mask leading edge should be approximately 30mm proud of the main frame profile both top and bottom. You can adjust the stops at the motor head using the hex key provided.

14. Check that in the fully closed position the upper and lower masks are stopping together. If one mask pushes the other then some slack will appear in one of the masks. This can be re-adjusted with the hex key at the motor head also.

15. Re-initialise the motor control calibration by applying the following sequence on the T24S 433 dual transmitter.

TAM TB REMOTE CONTROL





Note: to use the SHIFT function simply press the SHIFT key once and release it.

Calibration will cause the motors to go to their reference limit, then to their other limit and back again. DO NOT interrupt this sequence. STOP will be ignored unless it is pressed for more than 2 seconds after which calibration will be aborted.

16. To open the masks to XXX aspect ratio, press the YYY button

17. To set the mask to ZZZ aspect ratio, press the AAA button

TAM TB APPENDIX