

3 – D Printer Enclosure Assembly Instructions

Tools Required:

2.5 mm Allen wrench (included)
Phillips screwdriver
Adjustable Wrench

Parts Included:

Plexiglas Back with fan and filters installed (29.5" x 35.5")
Plexiglas Top (29.5" x 35.5")
2 - Plexiglas Door (28.5" x 17.5")
2 – Plexiglas Sides (29.5" x 29.5")
4 – 35" long Aluminum tubes
8 – 29" long Aluminum tubes
8 – 3 way corners
24 – Allen screws
4 – Door Hinges
2 – Handles
2 – Magnet catches
Screws and nuts for handles and magnet catches

Assembly:

1. Remove blue or brown protective covering from all Plexiglas pieces.
2. On a flat surface, place a 29" Aluminum tube, with grooves toward you, and slide corner piece into middle groove as shown.



3. With an Allen screw, tighten corner piece to Aluminum tube.
4. Place a corner piece on the other end of Aluminum tube and tighten with an Allen screw.

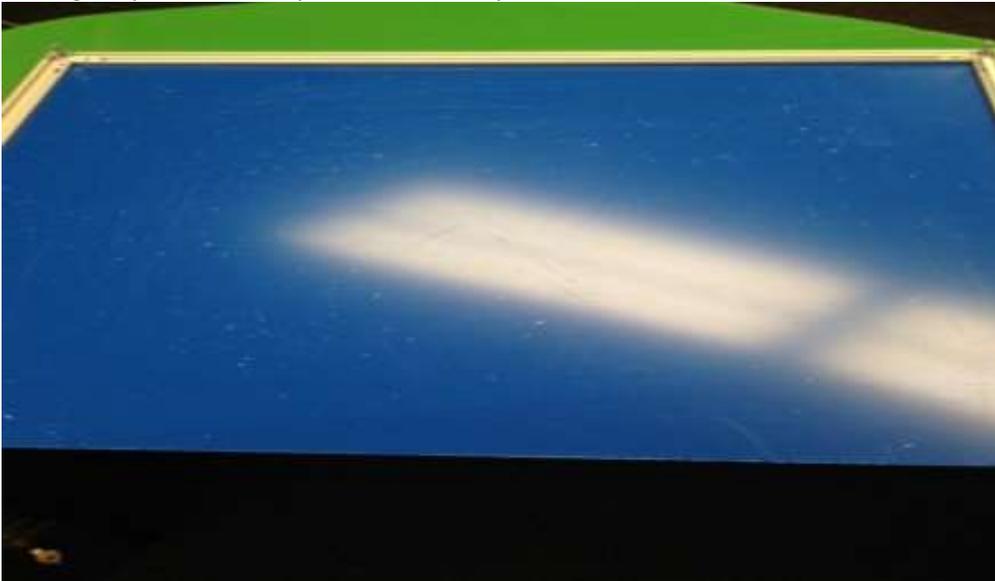


5. Repeat the process of placing two additional corner pieces on another 29" aluminum tube.

6. Attach the two assembled pieces with an additional 29" aluminum tube. Tighten with Allen screws.



7. Place Plexiglas side into the groove of the assembly and attach the fourth 29" aluminum tube, making a square assembly. (Side Assembly)



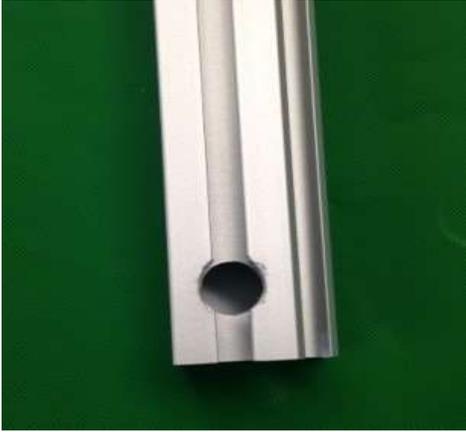
8. Repeat the above process to make an additional Side Assembly.

9. With the two sides now assembled, lay one flat with unused stud on the three way knuckle pointing up.

10. You now need to attach the 4 - 35" aluminum tubes to the Side Assembly. All of the 35" aluminum tubes are different, so it is important to use them in order. One of the 35" aluminum tubes has two slot cutouts (bottom, back of enclosure). One of the 35" aluminum tubes has a magnet attached (top, front of enclosure). These two aluminum tubes will need to be assembled diagonally from each other. One aluminum tube has small holes drilled at each end of one side of the tube. The last aluminum tube is plain.
11. Take the 35" aluminum tube with the two slots cut into it and place on one of the corners of the Side Assembly with the slot cutouts closest to the Side Assembly and tighten with Allen Screw (bottom, back of enclosure).



12. The next two 35" aluminum tubes to be installed will be the one with the two small holes drilled at each end and the one with the magnet attached, also with two small holes drilled at each end. Before installing these two pieces, open the bag containing the hinges and insert the black plastic grommets into the holes on each piece. You may need to tap them into place with a hammer.



13. Working your way to the left (clockwise), place the 35" aluminum tube with the hinge grommets on the next three way knuckle, be sure the grommets are NOT facing the bottom, back aluminum tube you just installed, tighten with Allen screw.
14. Continuing to the left, place the 35" Aluminum tube with the magnet on the next three way knuckle, be sure the grommets and the magnet ARE facing the Aluminum tube you just installed, tighten with Allen screw. This is the front of the enclosure where the doors and hinges will eventually be installed.
15. Place the remaining 35" Aluminum tube on the remaining three way knuckle and tighten with Allen screw.
16. At this point you should have a Side Assembly with all four 35" Aluminum tubes attached. The next few steps of the assembly will go easier with some additional help. You will now place the Plexiglas Top, Plexiglas Back and attach the other Side Assembly.
17. Take Plexiglas Top and slide it into the groove at the top of the enclosure. The top of the enclosure is left (clockwise) of the front and uses the 35" Aluminum tube with the magnet attached.
18. Take Plexiglas Back and slide it into the groove at the back of the enclosure. Be sure the fan and filter are toward the top and outside of the enclosure.
19. Being careful to insure that the Plexiglas Top and Back stays in the grooves, place the remaining Side Assembly at the other end of the 35" aluminum tubes, tighten the remaining Allen screws.
20. Carefully set the enclosure upright.

21. The two remaining pieces of Plexiglas are the doors. Take the two doors and lay them on a flat surface with the two handle holes close to each other and the small single holes at the top and close to each other. Attach the handles using two machine screws and nuts. The handles should be toward you.



22. Place another machine screw into the single hole at the top of the door and attach a magnet catch on the inside of the door (opposite side of the handles).



23. Place a hinge in the bottom hole and insert Plexiglas door, while holding door place a hinge in top hole and move door into top hinge. Lightly tighten screws to hold door in place.
24. Repeat at the other side for the other door.
25. Make the final adjustments on each door so that they meet in the middle and close tight. Tighten the hinge screws.
26. Insert weather stripping on top and bottom between the hinges and magnets.