

Prusa XL removable 3d printed draft panels



hairy jaws

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Summary

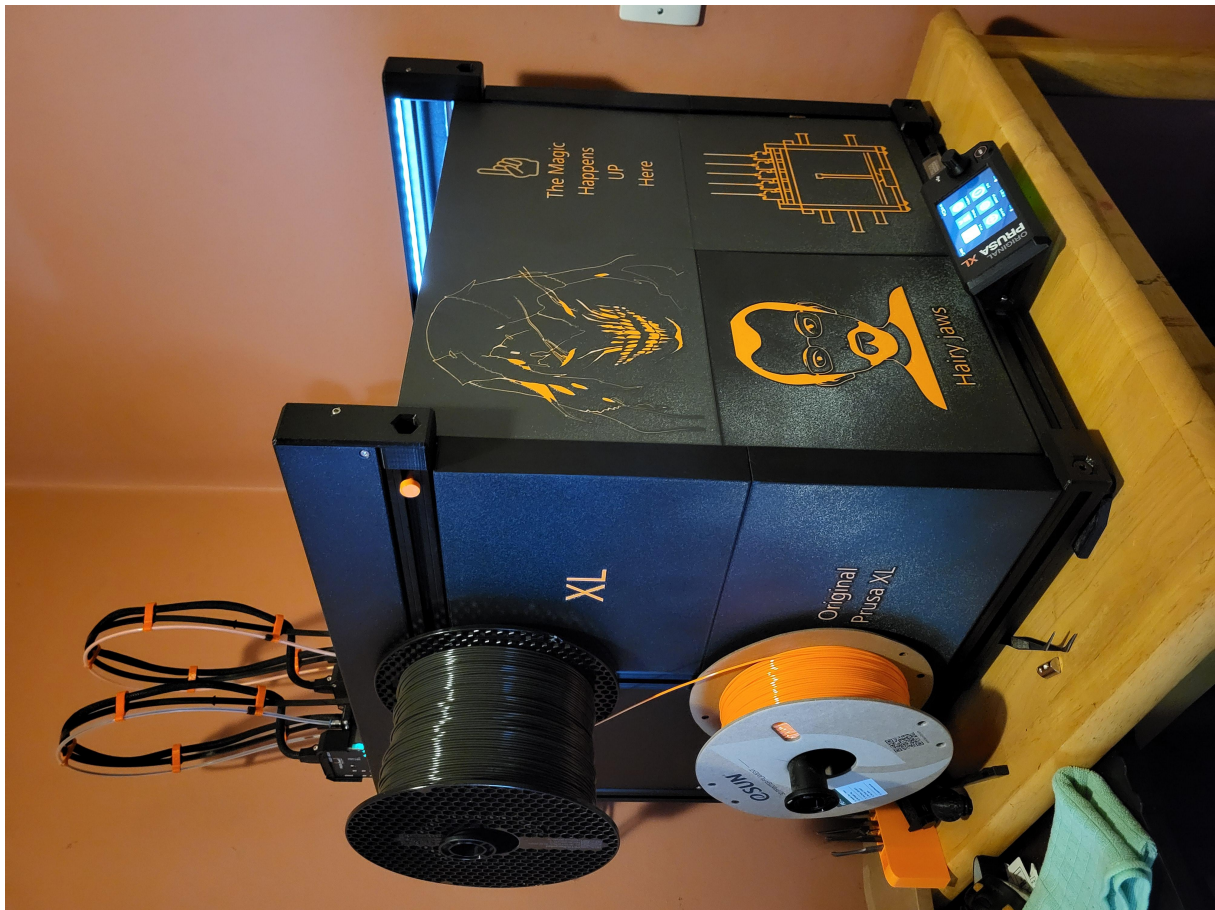
Draft panels for the Prusa XL, Side and front no perspex needed. stop drafts and give your Prusa a cube look.

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Tags: [enclosure](#) [panels](#) [xl](#) [draft](#)

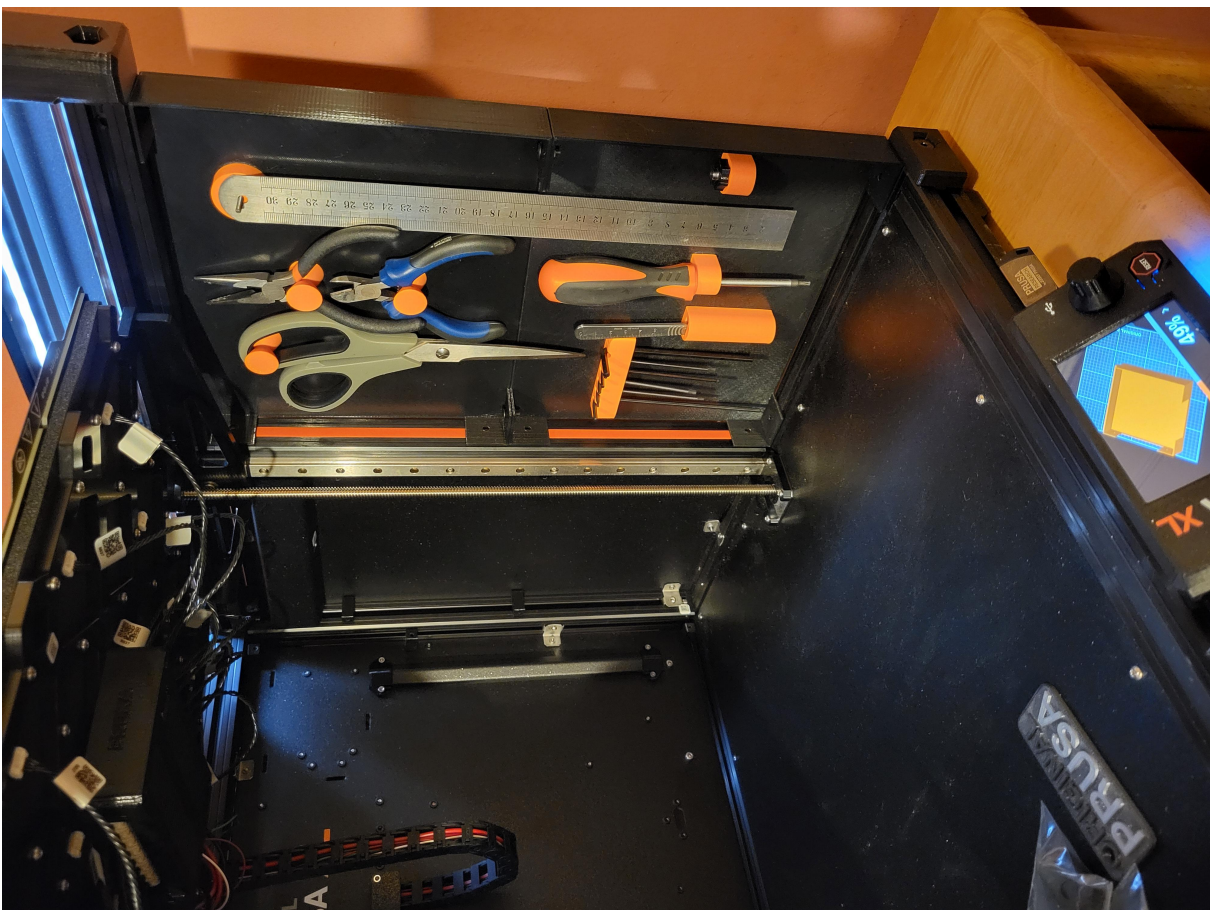
I created these draft panels as my Prusa XL is sited next to a door. They are completely 3d printed and no supports required. They do not require any perspex or poly carbonate sheets the panels do not interfere with the heat bed or the Extruder. Turns the XL into a cube.

Only extras required are some M4* screws and bolts. I printed them with Black PETG and orange PETG with the dual head Prusa XL printer. I used the powered coated sheet which gives the panels a similar look to the Prusa panels that come with the printer.



There is side panels which can be fitted permanently or fitted as quickly remove-able, they can also face into printer or face outwards and can be customized into storage areas for commonly used printer tools. They can also be used on there own with no front panel . Both front and side panels are customizable with designs using Prusa slicer modifiers, The front and side panels are also quickly fit-able and removable as required for easy access into the printer as required e.g cleaning and maintenance.







For the designs on the side panels i used a Prusa slicer text modifier, the front panels was created with the Prusa slicer SVG modifier and text modifier. Or you can just leave them blank.

If you are going to put designs on the panels be careful of the orientation of the panels when placing them as you don't your design facing in the wrong direction.

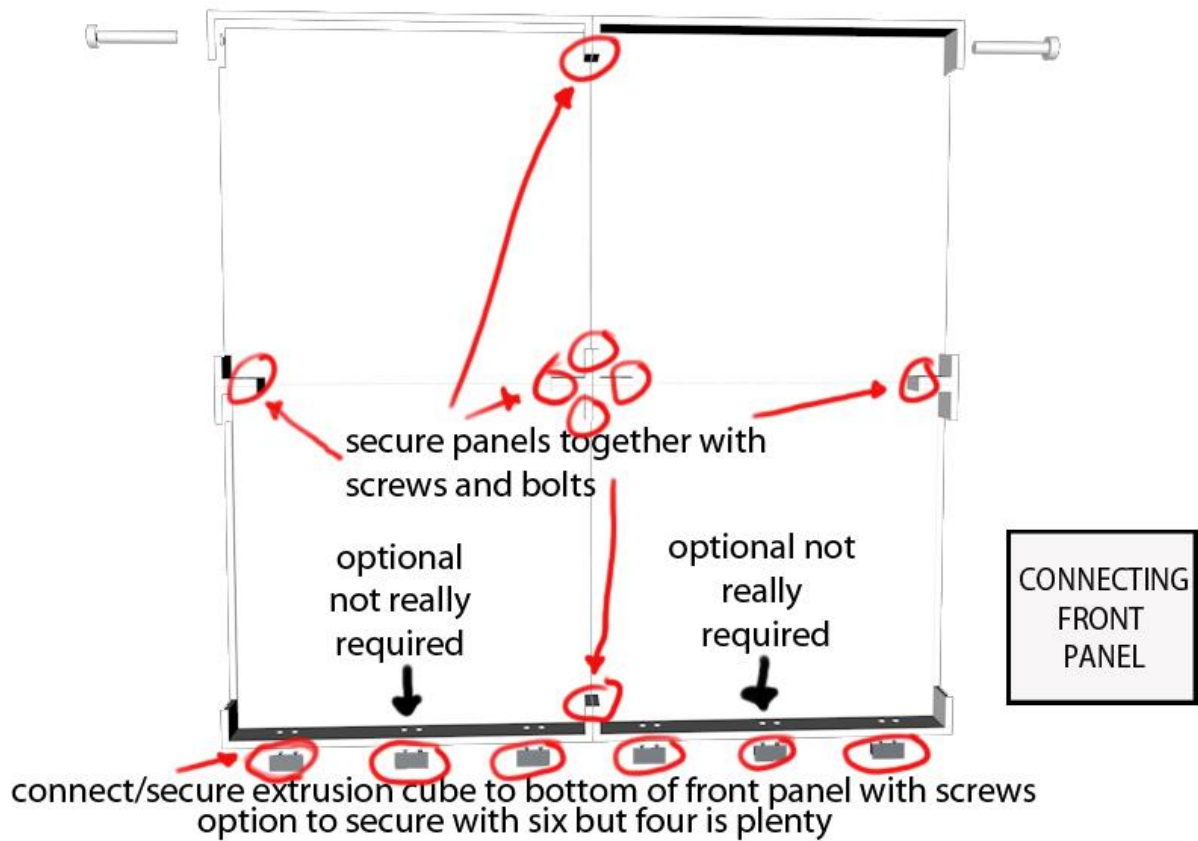
The top left design on the front panel is the band Disturbed smiley face which i turned into a line drawing and turned into an SVG, Top right design is a combination of a SVG hand and the Prusa slicer text modifier. Bottom right design is a line drawing i made of a front view of the Prusa XL and turned into an SVG. Bottom left design is a combination of an SVG and text modifier, I turned my avatar picture into an SVG and used Prusa slicer text modifier for my name.

You don't need any special software or skills to create an SVG you can use a free online image converter just do a google search i used <https://convertio.co/>. To convert my images.

To assemble/connect the removable front panel to the printer.

you will need 8 M4* 16 nuts and bolts to connect the four panels together. You will need 8 M4* 16 screws to connect the 6 extrusion cubes to the

bottom of the panels i originally planned on having six extrusion cubes but on building the panels i found that 4 was enough, you will need to print off 2 of the extrusions plugs to secure the top of the panel to the printer.

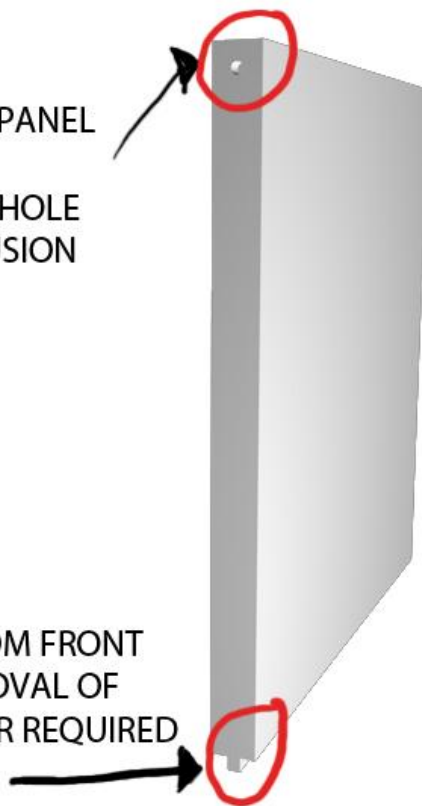


HOLE TO SECURE PANEL TO PRINTER.
SLOT PLUG THRU HOLE IN PRINTER EXTRUSION



hole in extrusion used to secure front panel with plug

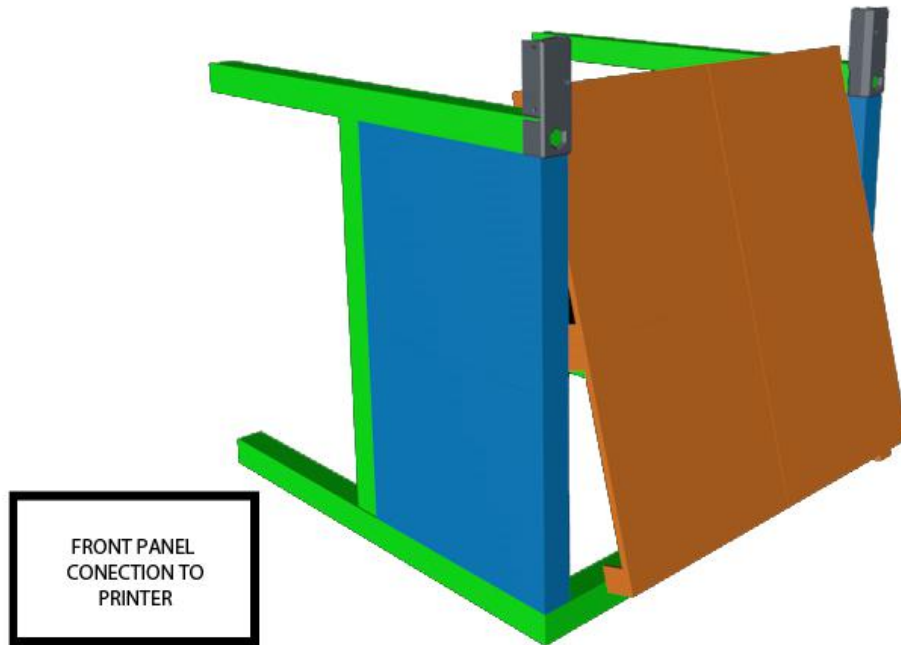
SLOT INTO BOTTOM FRONT EXTRUSION, REMOVAL OF EXTRUSION COVER REQUIRED IF INSTALLED



removable front panel

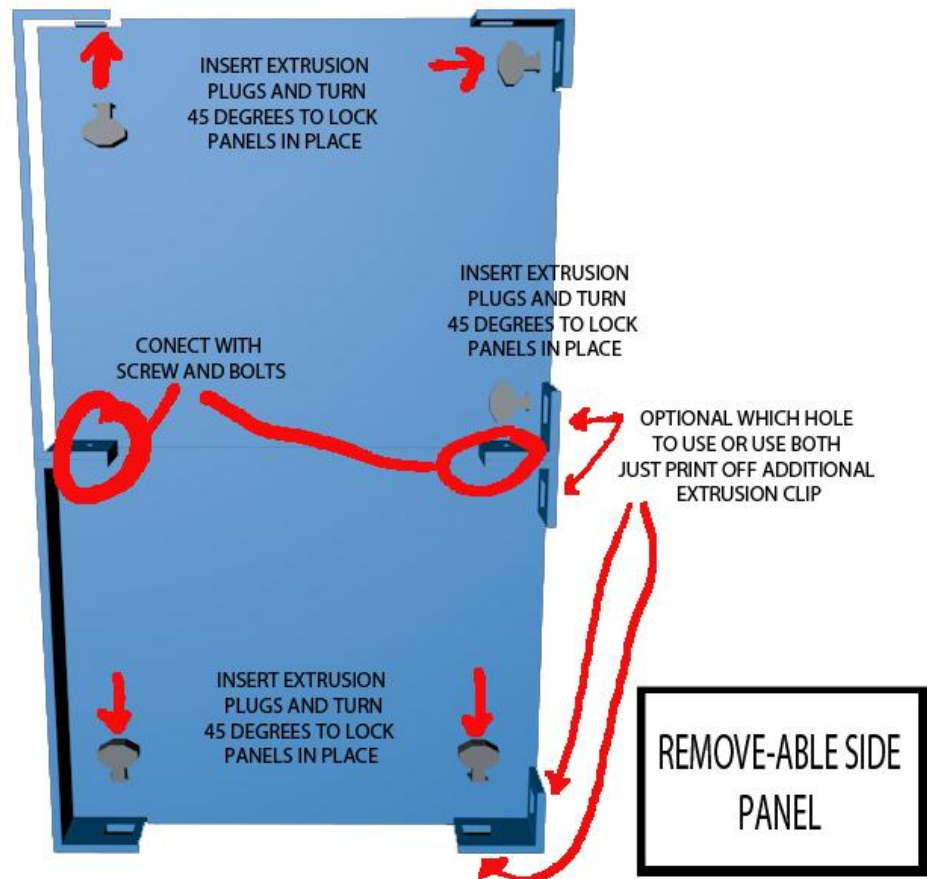
FRONT PANEL HAS TO BE TILTED IN UNDER PAST THE CORE XY FRONT CONNECTORS
THEN BOTTOM MOVED IN LINE WITH THE BOTTOM EXTRUSION AND SLOTTED IN
THEN THE TOP CAN BE SLID BACKWARDS THE FRONT AND THE TWO EXTRUSION PLUGS USED TO
HOLD IT IN PLACE

MOVE THE HEATED BED DOWN 3/4 THE WAY FROM THE TOP IT MAKES THIS EASIER

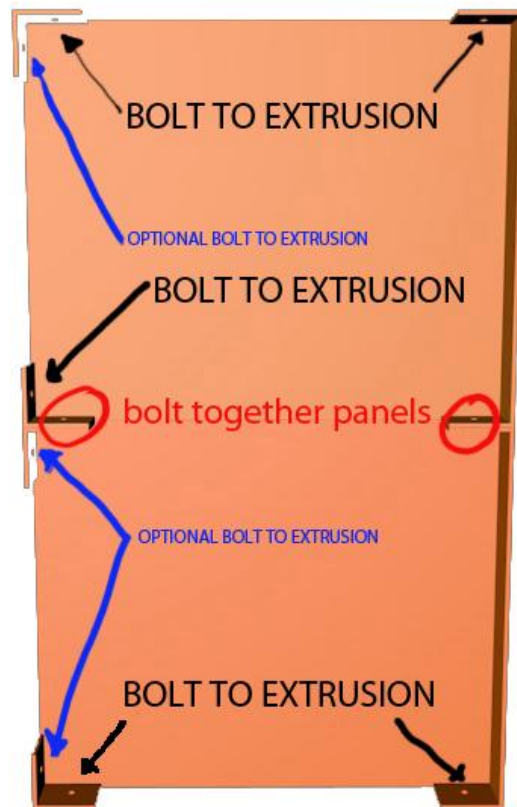


To assemble/connect the removable side panels to the printer.

You will need 2 M4* 16 or longer nuts and bolts to connect the two panels together. You will need to print off 5 or 7 extrusion clips to attach the panels to the printer extrusions. Push in plugs and turn 45 degrees to lock panels in place.



To assemble/connect the fixed side panels to the printer.
16 M4 T Slot Nuts Roll in Spring T-nuts with Ball Carbon Steel for 3030 Series Aluminum Extrusion Profile Rail, but can get away with just using a minimum of 6 t slot nuts per panel and you will need 16 or 12 M4* 16 screws depending on how many t- nuts you used to secure the panels, you will also need 4 M4* 16 screws and nuts to connect the panels together.
print off the side panel x 4 and add any logo's you want in slicer.



fixed
side panel

15 Pcs

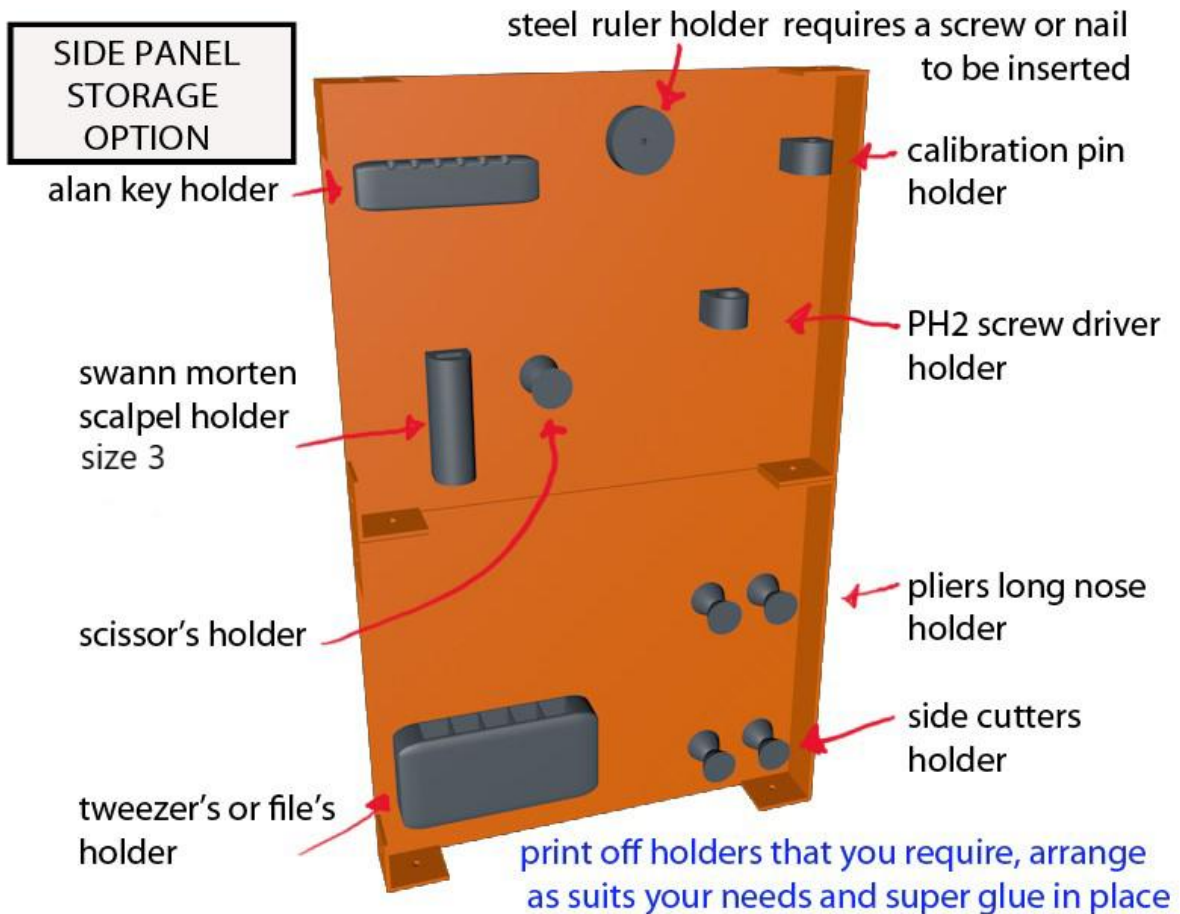


I sourced my T-nuts and screws on amazon

no need to dismantle printer with these nuts they slide in. If you are not sure how to install them, There is how to videos on you tube just do a search.

To turn side panels into storage area's for tools.

Print off the what tool holders you need or make your own and glue in place,the side draft panels can be either positioned facing into the printer or facing out depending on what you prefer. If storage area is facing into the printer do not store any tools wider than 26cm as this can interfere with the printer bed and cause damage. lay panels flat place in tools and holders onto surface and arrange so that they fit and are removable. Then glue holders in place.



All models made by myself apart from the extrusion-clip which is a PRUSA printable part for the XL available here <https://www.printables.com/model/449554-xl-printable-parts> and is licensed under a GNU and general public license <https://www.gnu.org/licenses/old-licenses/gpl-2.0.html>, I have did a remake by making it slightly longer, the original wont work with the panels. I have attempted to be as accurate as i can with this is apologizes if i have made any errors. let me know if you find any and i will try to rectify them.

Happy Printing please share any makes, i would love to see them.

Model files



fixed-side-draft-wall.stl



remov-top-left-side-panel.stl



remov-bottom-right-side-panel.stl



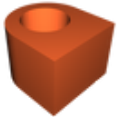
calibration-pin-holder.stl



front-draft-panel-plug.stl



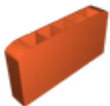
plier-holder.stl



ph2-screw-driver-holder.stl



front-top-right.stl



tweezer-holder.stl



scalpel-holder.stl



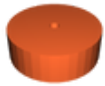
remov-top-right-side-panel.stl



front-top-left.stl



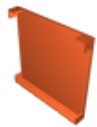
extrusion-cube.stl



ruler-holder.stl



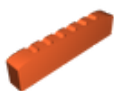
front-bottom-left.stl



front-bottom-right.stl



remov-bottom-left-side-panel.stl



alan-key-holder.stl



extended-prusa-cover-clip.stl

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