

SK40 External Control Box - Part 2

This is built so the cabinet can be gutted out to make way for a larger process area and customframe / gantry etc.

Part 2 - will cover panels so wires can't be accessed easily.

The Panel Lock Lugs are a temporary item to lock down the original K40 control Panel for the interim until a top panel is made.

The Control Board Mounting Plate is re-used from the K40 Cabinet.

Acrylic / Aluminium/ Metal Plates will be cut to go on the front, back, control board side and top.

No panel is placed on the remaining side as this goes against the cabinet as I cut a out a hole big enough to move the power supply through without disconnecting the laser tube.

2 lengths of 2020 at 175mm at the bottom is for mounting the Laser Power Supply but you could opt to put a plate down here instead.

I also use 2 more angle brackets to fasten to the outer side of the control box to the bench so it does not move.

Gap A - 125mm between profiles
Gap B - 100mm between profiles

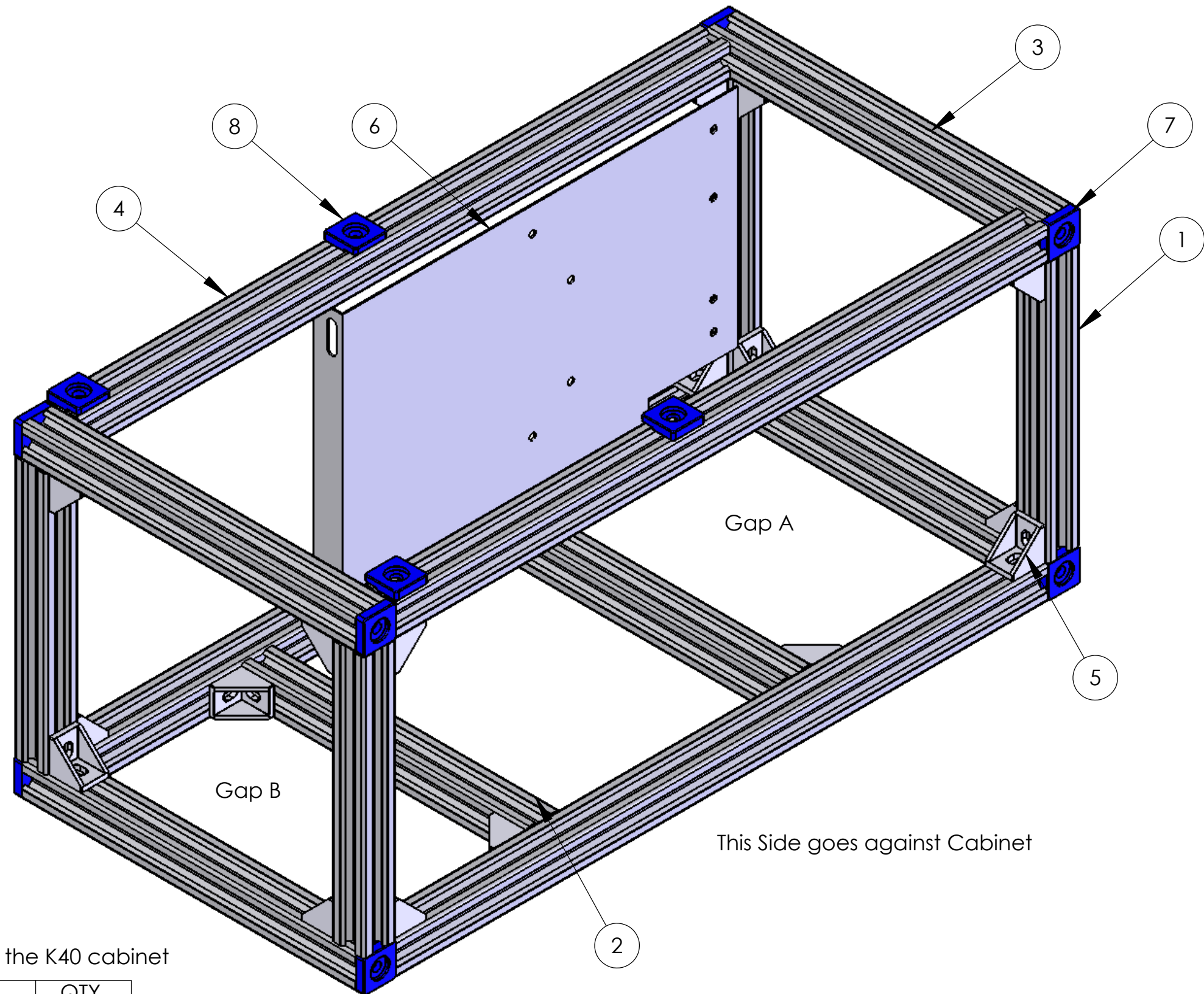
If you become a Shapeways member you can order and print up the 3D printed parts or download and print yourself.

Though these are not to be on-sold otherwise I will remove all tems for free download for this item and future modifications.

CB = Control Box
M = Makerstore Profile - <https://www.makerstore.com.au/>
which is similar to Openbuilds
2020 = 20 x 20mm profile
160 / 175 / 205 / 400 = cut length

Note: the 400mm profile could be cut 40mm longer to better match the K40 cabinet

ITEM NO.	DESCRIPTION	FROM	QTY.
1	CB M 2020-160 V Slide Profile	Makerstore	4
2	CB M 2020-175 V Slide Profile	Makerstore	2
3	CB M 2020-205 V Slide Profile	Makerstore	4
4	CB M 2020-400 V Slide Profile	Makerstore	4
5	Angle Bracket (no guides)	Makerstore	20
6	Control Board Mounting Plate	K40 Plate	1
7	V Slide Profile End Bung	3D Printed / Shapeways	8
8	Panel Lock Lug	3D Printed / Shapeways	4



Additional Parts Required Not Shown from Makerstore to suit the profile

52off x M5 x 8mm Shallow Flat Head Bolts (for angle brackets and 3D printed parts)
52off x M5 Fastening Lugs (for angle brackets)
4off x M4 Fastening Lugs (for securing the power supply)

Note 1: Does not include lugs, bolts and acrylic panels - still a work in progress.
Note 2: 3D printed parts can be found at Shapeways - Search Swinks-SK40