

Complement L3VER M2 motor blocks

Suivi des évolutions

Indice	Date	Description de l'évolution	Auteur
0.0	22/06/2022	Création	FBR

BOM :

Printed parts

Top alpha	X1
Top beta	X1
Bottom alpha	X1
Bottom beta	X1
Lever	X2
Motor holder	X2
Motor base L	X1
Motor base R	X1

Hardware :

625-zz/2RS bearings	X4
Disk coupler 5-5mm	X2
Tnut M6	X12
6mm alu spacer OR 12mm printed spacer	X12 / x6
Hex nut nylstop M5	X2
Inserts brass m4	X8
F695-ZZ / 2RS	X16
695-ZZ / 2RS	X8

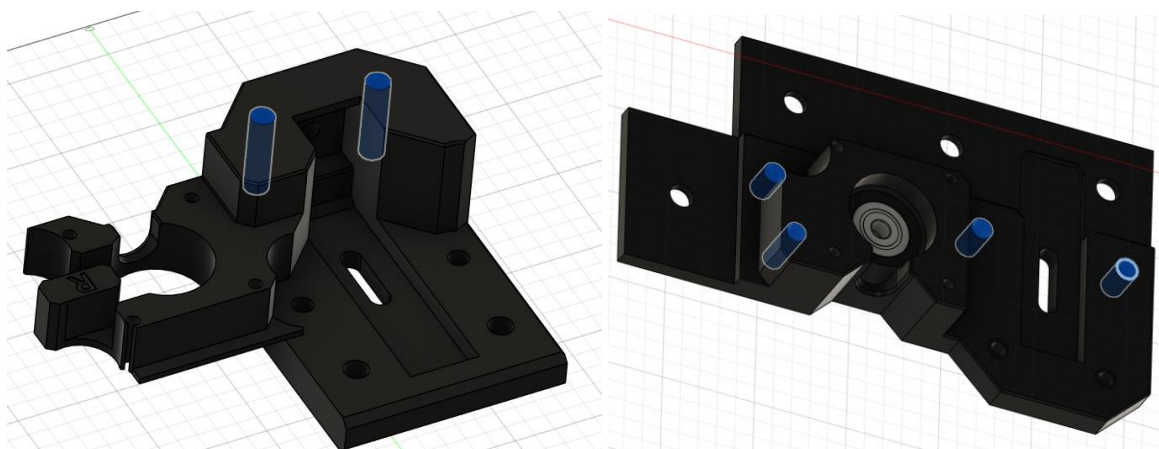
	Complement L3VER m2 Motor block with tensionner	

Shoulder bolts m4D5 35mm	X8
Shoulder bolts m4D5 45mm	X2
Countersunk m6x12	X8
Washer M5	X4
M3 35mm	X8
M4 20mm	X4
M3 30mm	X8
M3 12mm	X8
Countersunk M5 40	X2
Flanged M4 hex nut	X2
Microshim 1mm m5	X30
M6x16	X4

Part preparation

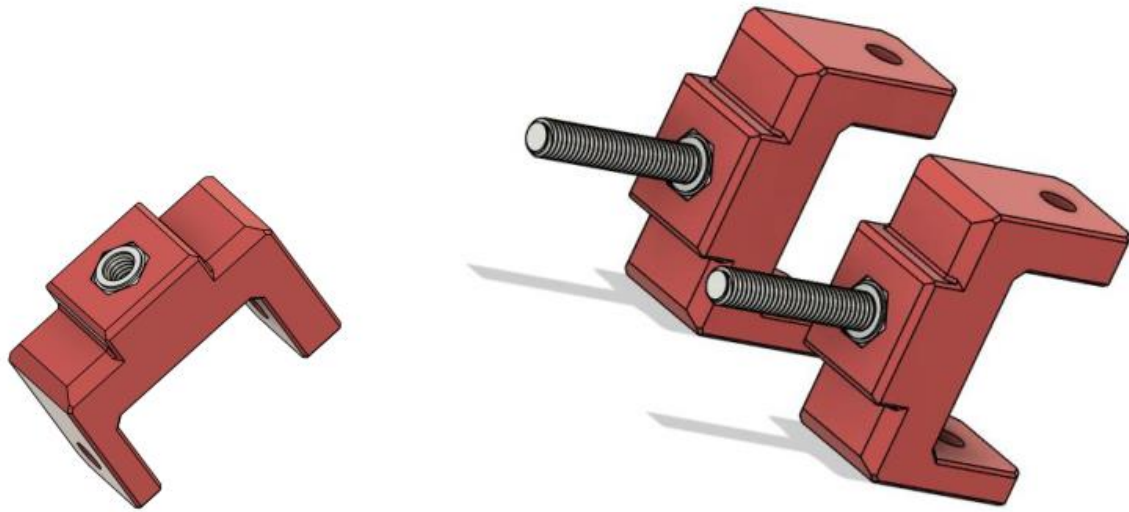
This manual is to read with <https://github.com/FlorentBroise/BRS-Printers-Mod/blob/main/manuals/Manual-Tensionner-L3VER-M1-A.pdf> in addition

Insert m4 Inserts in the required places



(For BRS-E Orders, those inserts are already installed)

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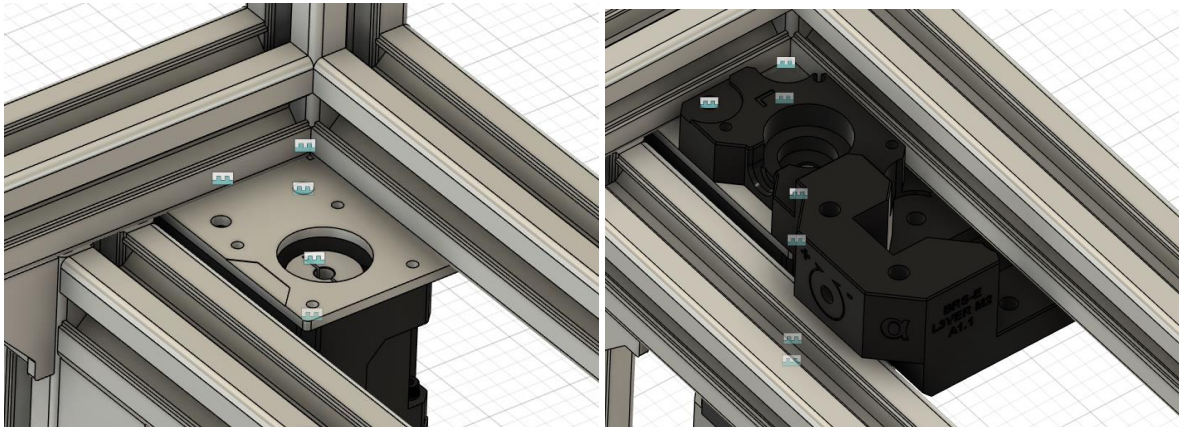
Install the m5 nyloc in the Lever parts. Add a bit of threadlock in. Then screw the Countersunk m5x40 completely. This assembly is definitive. Repeat it for the other one

You can try to make an assembly out of the machine to understand the mechanism



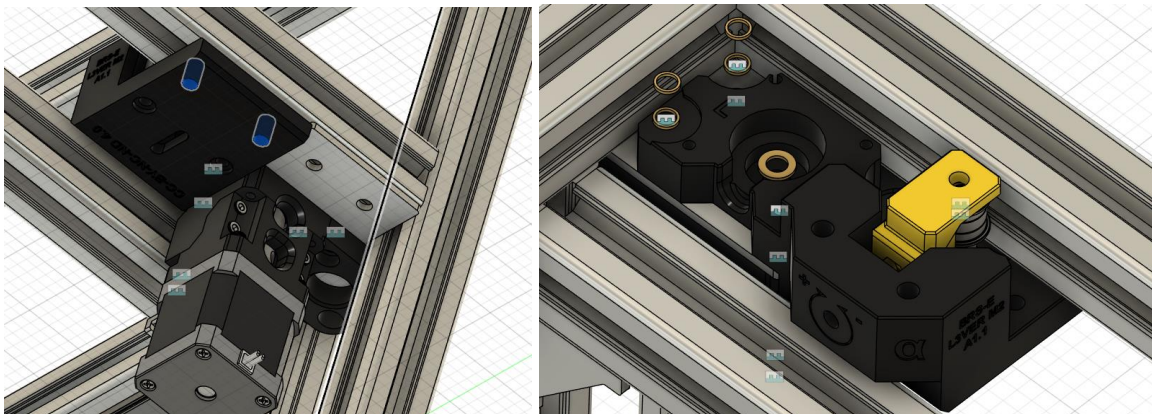
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Mainparts installation

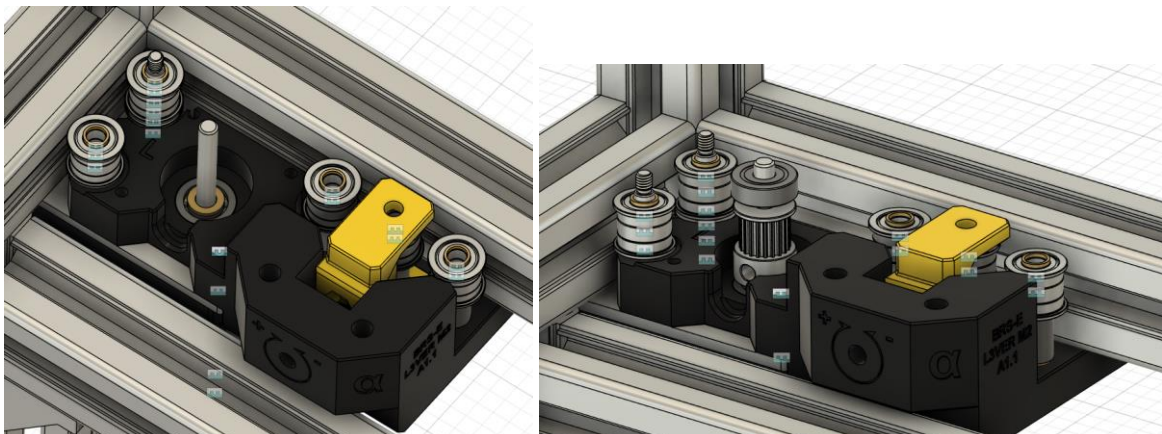


You can follow the manual for the PMBs to install the lower parts, the logic of installation is the same. Put the lower part of the tensionner and secure it with 2 m6x12 screws

Insert the 625 to support the shafts, be careful to make a proper alignment to be perfectly coaxial, if not the system will not work correctly

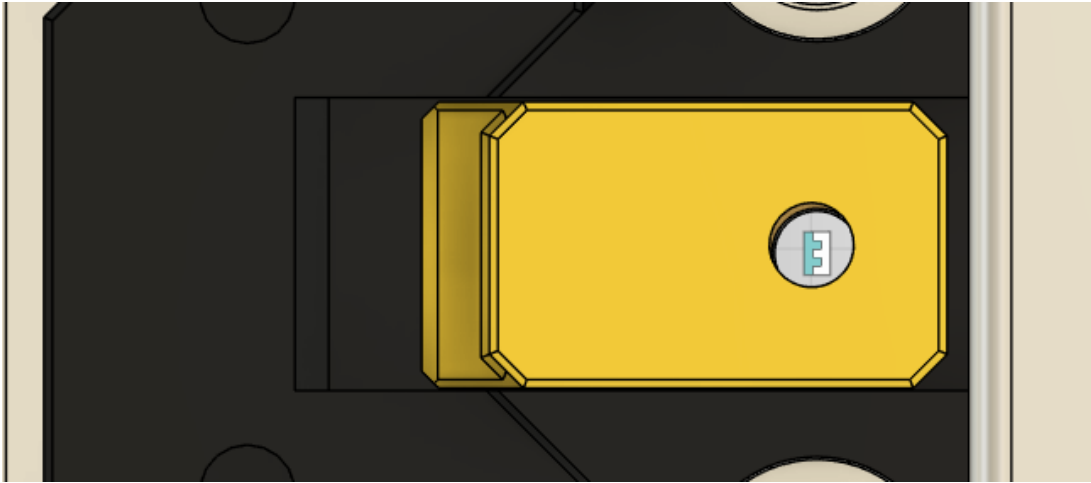


Then you can begin the lever installtion with the idlers

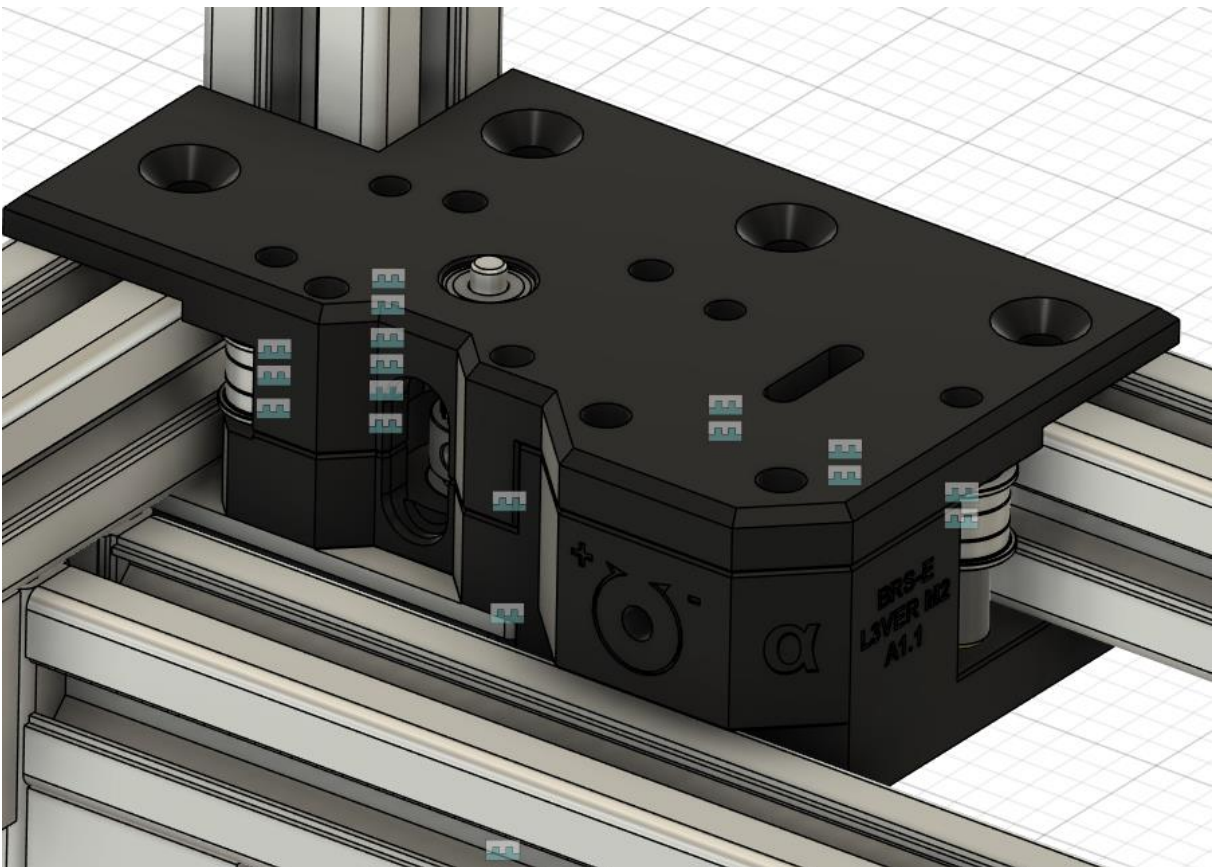


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Do the 2 motors block in the same time. Once done you can begin the belt routing, let it loosed the lever in the lower position (against the 3030)



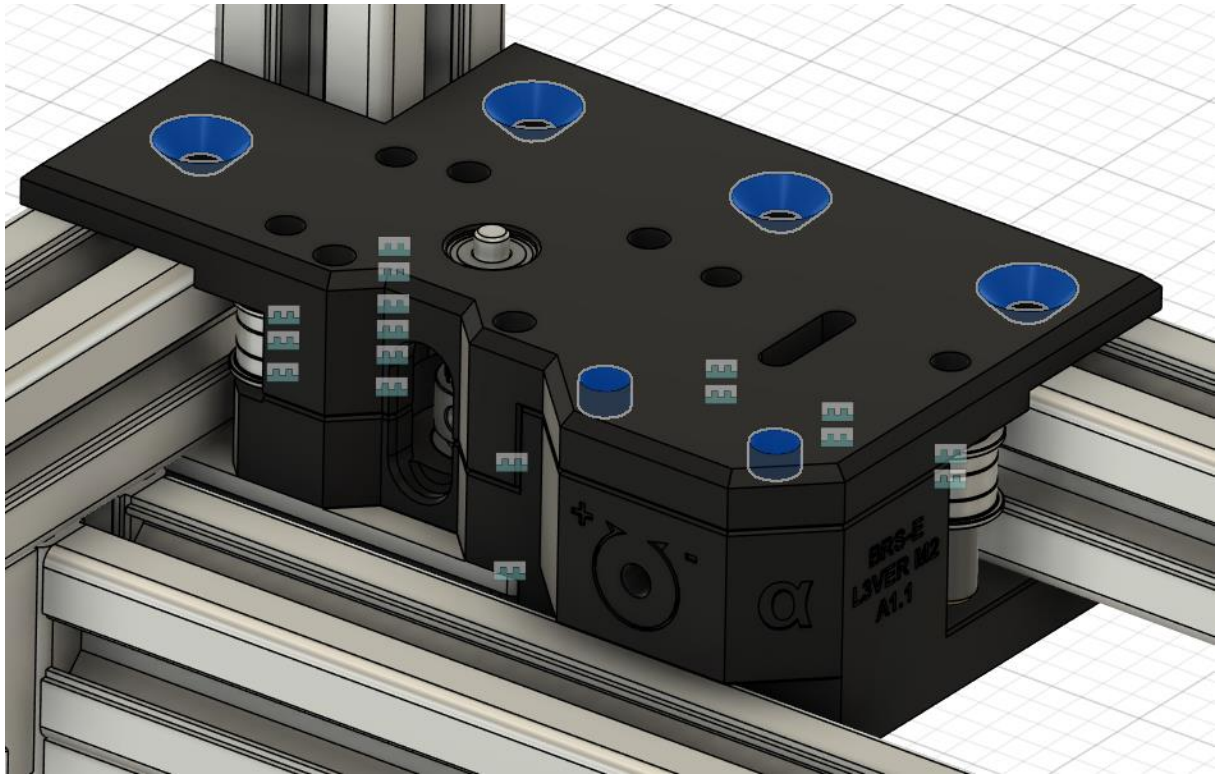
Then you can secure the whole assembly with the top plate, with the other 625 bearing



Secure it with the 5 shoulder bolts from bellow and then the M6 and m4 screws at the top

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Then the x4 m3x35 to grab the motor from the top



Here you saw the same logic than the LEVER M1 A

You can find the manual for it here to help you across the rest of the assembly:

<https://github.com/FlorentBroise/BRS-Printers-Mod/blob/main/manuals/Manual-Tensionner-L3VER-M1-A.pdf>

! This mod has been designed for a 3mm plate for Electronic panel !

The open mod or stock version use the same manual