

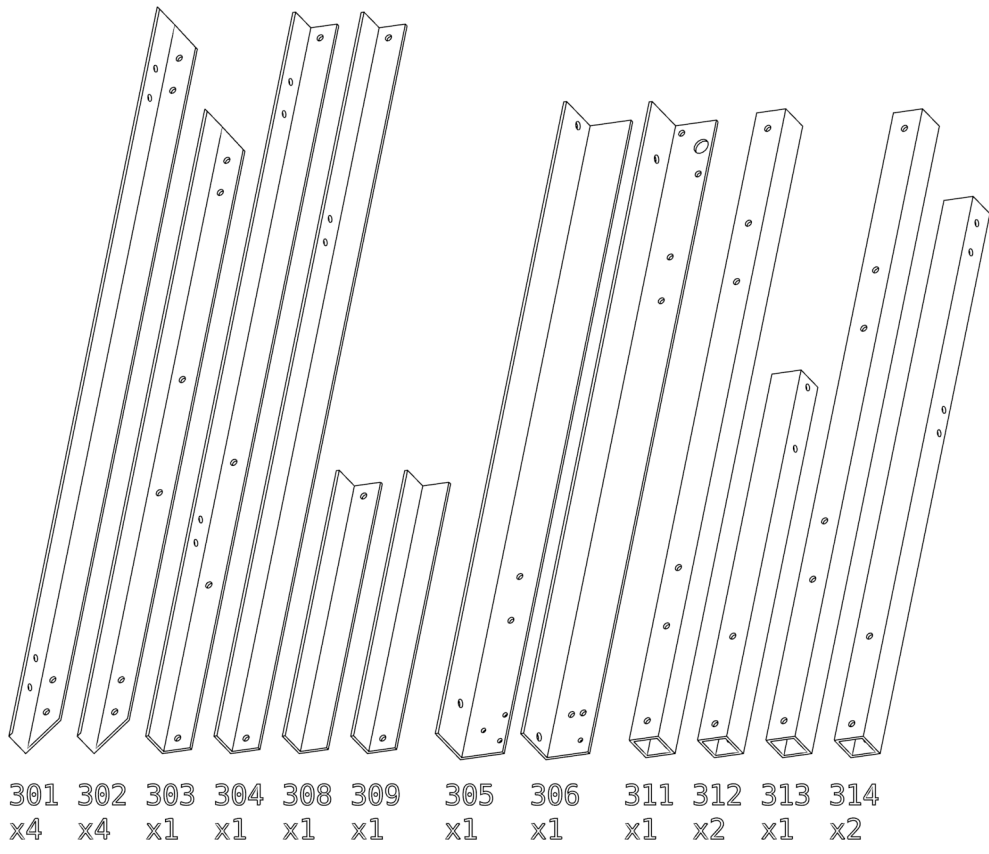
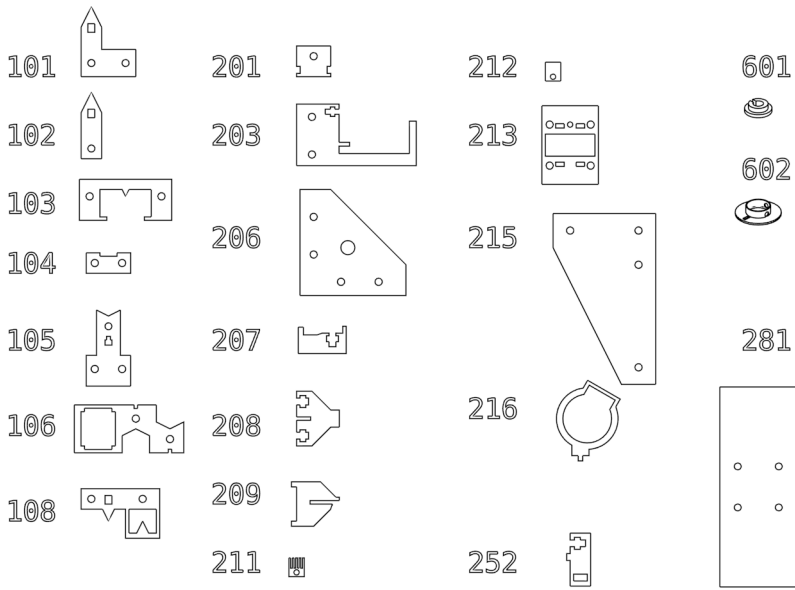
# Openhivescale : assembly manual

Pierre Beck / Juan Gonzalez

May 17, 2018

Tools :

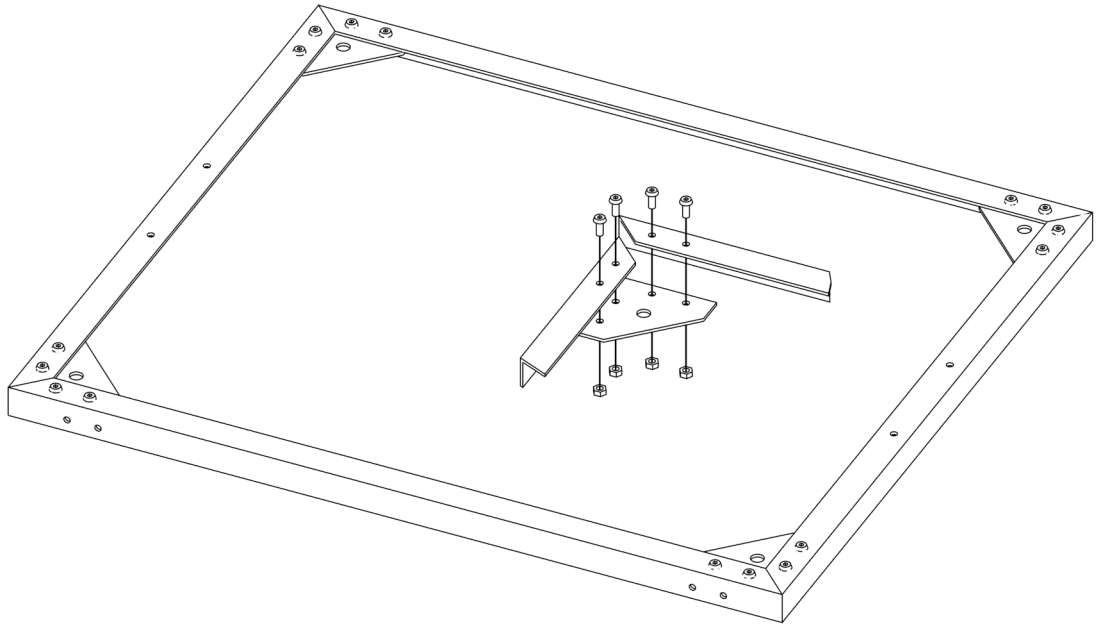
- Hex key 1.5mm, 2mm, 2.5mm, 3mm
- Wrench : 5.5mm, 7mm, 8mm
- Plier, cutting plier, cutter



1

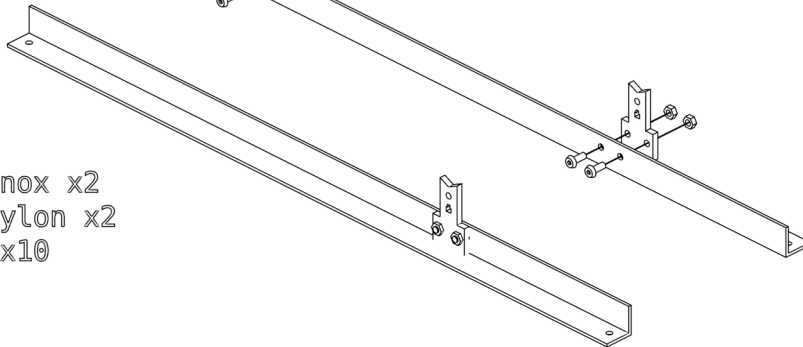
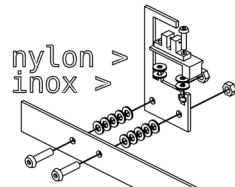
x2 => 3  
=> 4

301 x4  
302 x4  
206 x8  
M4x10 x32



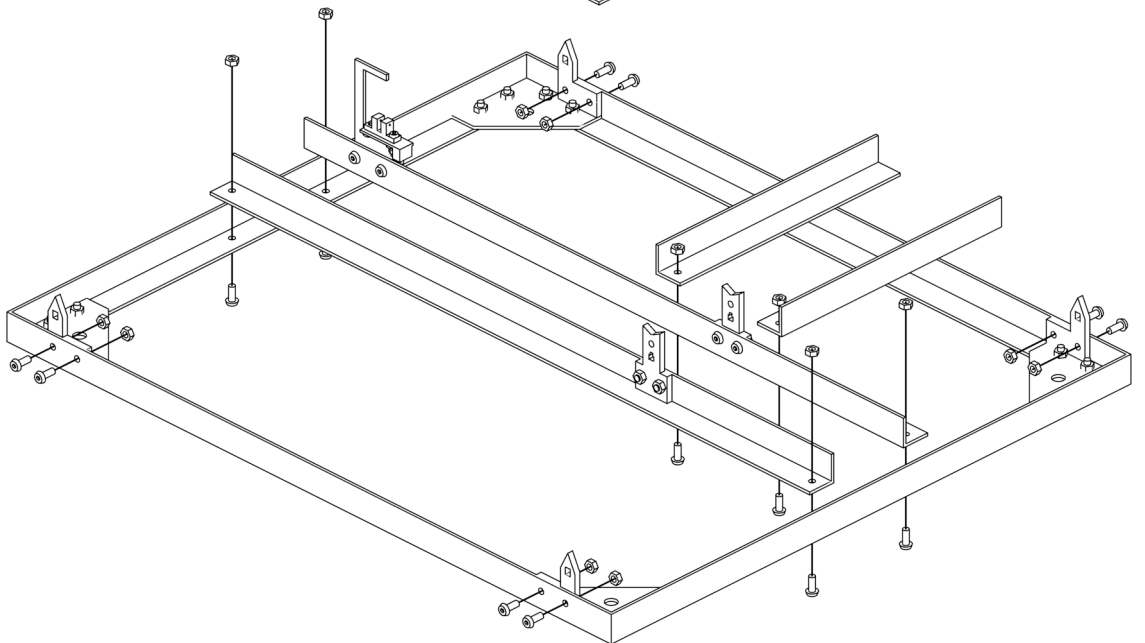
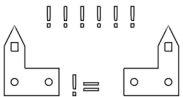
2

303 x1  
304 x1  
105 x2  
203 x1  
M4x10 x4  
M4x16 x2  
M3x12 x1  
washer 3x8x0.8 inox x2  
washer 3x8x0.8 nylon x2  
washer 4x10x0.8 x10



3

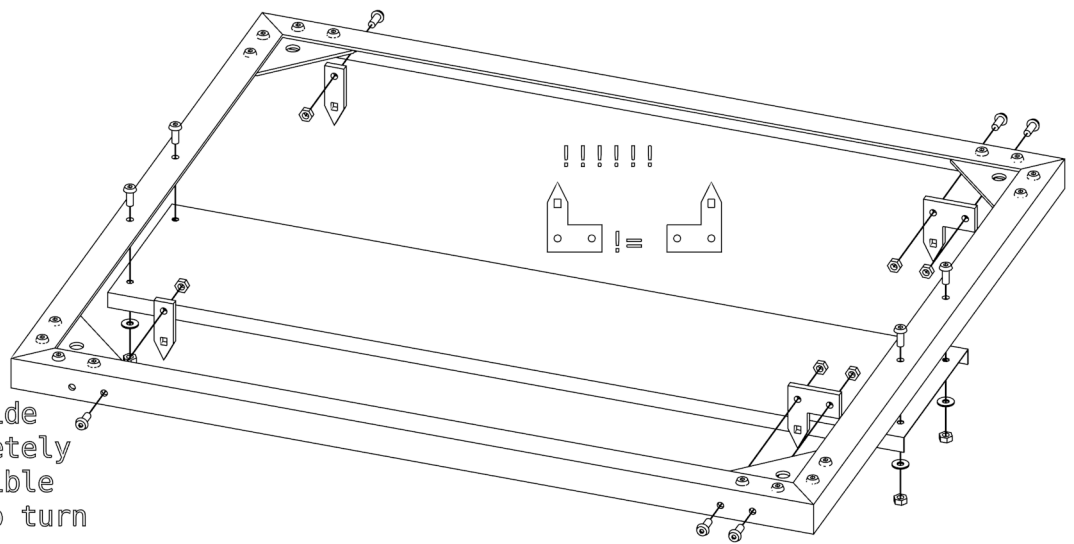
101 x4  
308  
309  
M4x10 x14



4

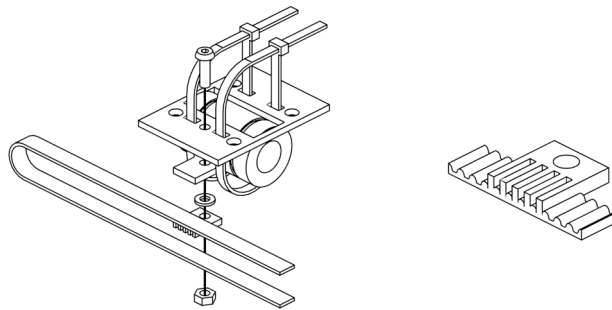
- 101 x2
- 102 x2
- protection
- M4x10+regular nut x8
- M4x16+nylstop nut x2
- washer M4 x4

nylstop nut on 102 side  
do not tighten completely  
as few slack as possible  
but 102 still free to turn



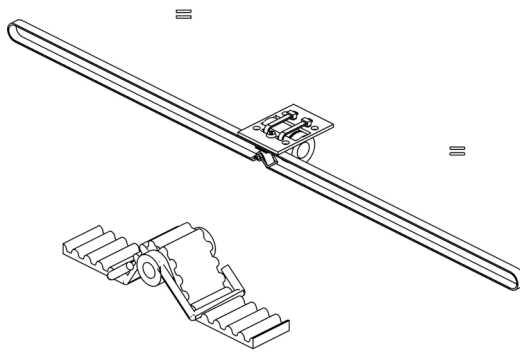
5

- 211
- 212
- 213
- 2x cable tie
- M3x12
- 3x6x0.8 washer



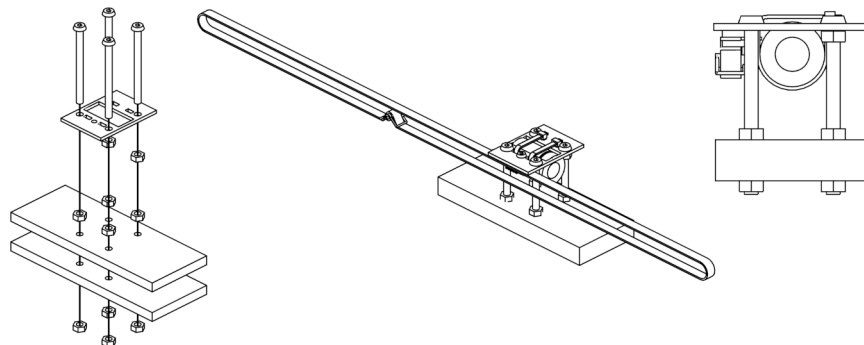
6

tensionner



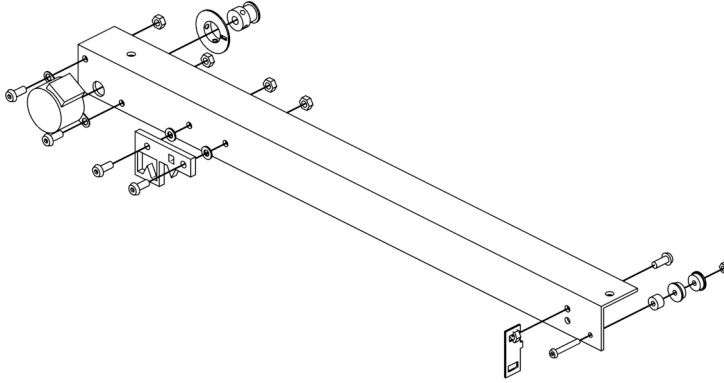
7

- 281 x2
- M4x50 x4
- M4 nut x10



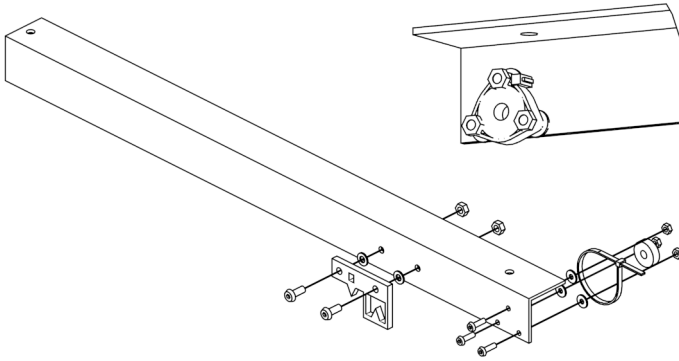
8

108 x1  
602 (3d printed)  
252  
motor  
pulley  
f623zz x2  
M4x10 x5  
M4 washer x2  
M3x20  
spacer 3x8x5



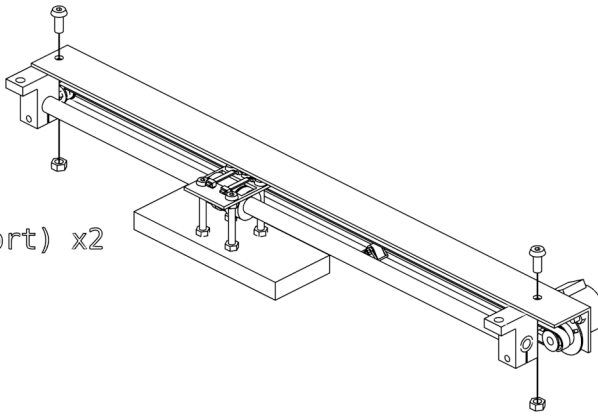
9

108  
625zz  
cable tie  
M4x10 x2  
M4 washer x2  
M3 washer x3  
M3x12 x3



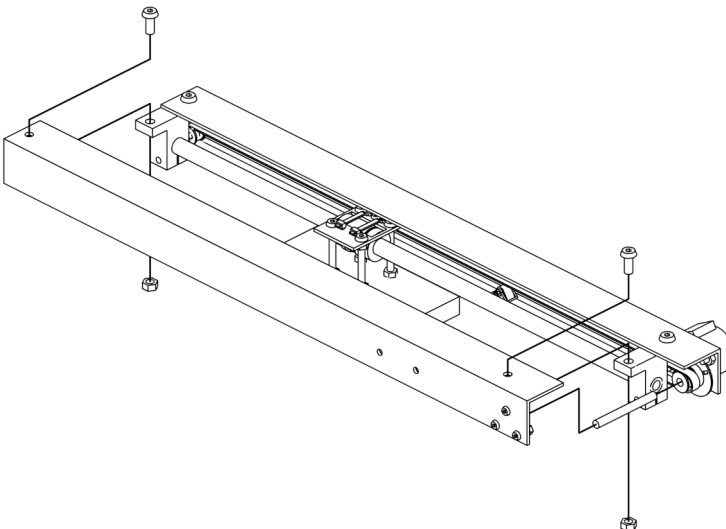
10

10mm shaft  
SK10 (shaft support) x2  
M5x12 x2



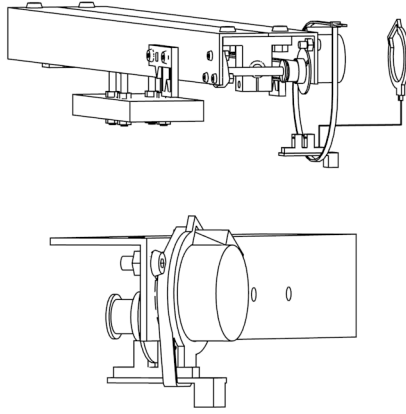
11

M5x12 x2  
5mm shaft



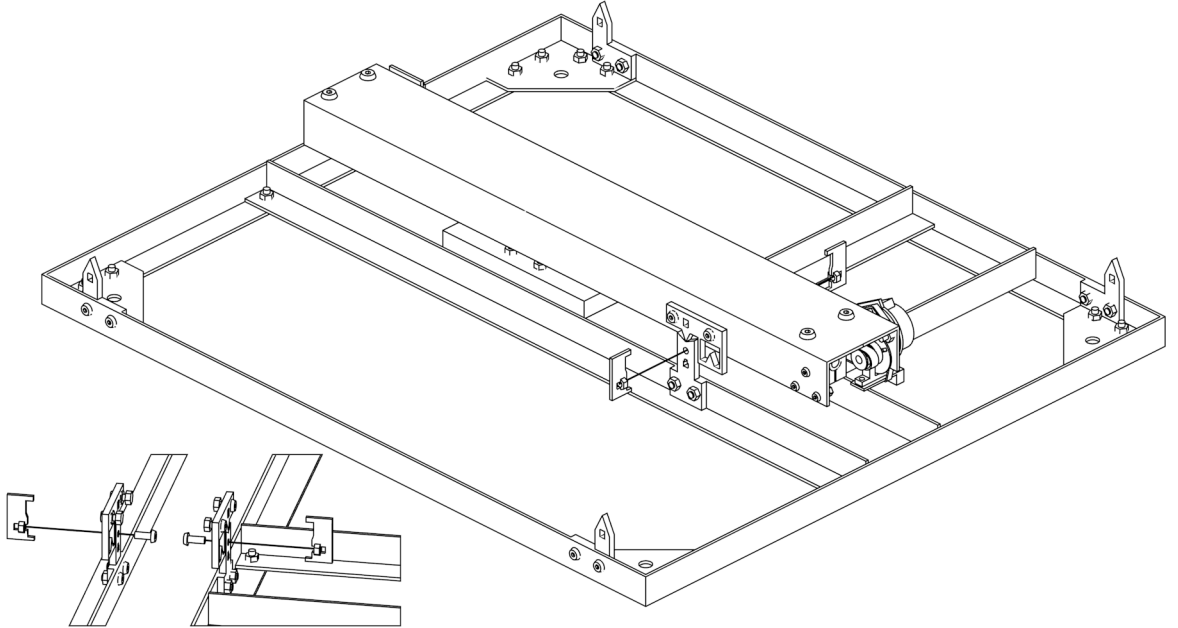
12

216  
endstop  
cable tie



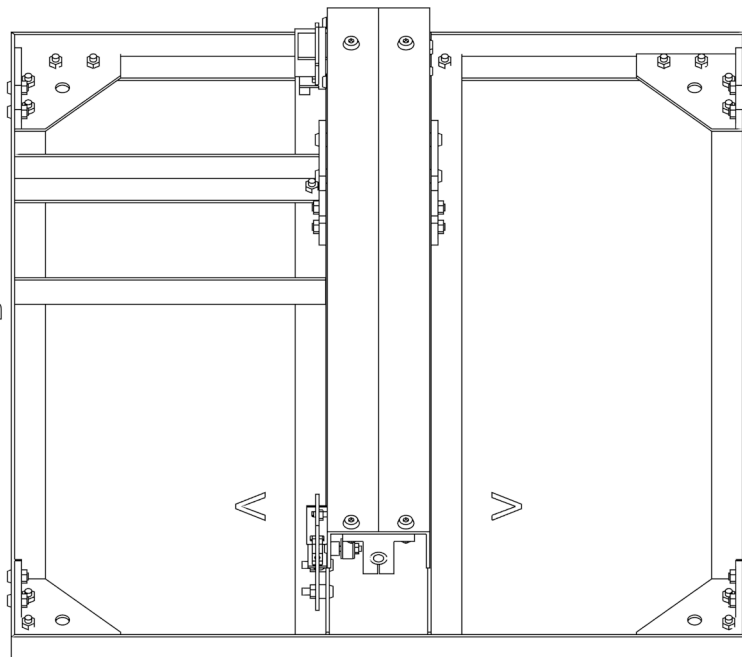
13

207 x2  
M4x10 x2



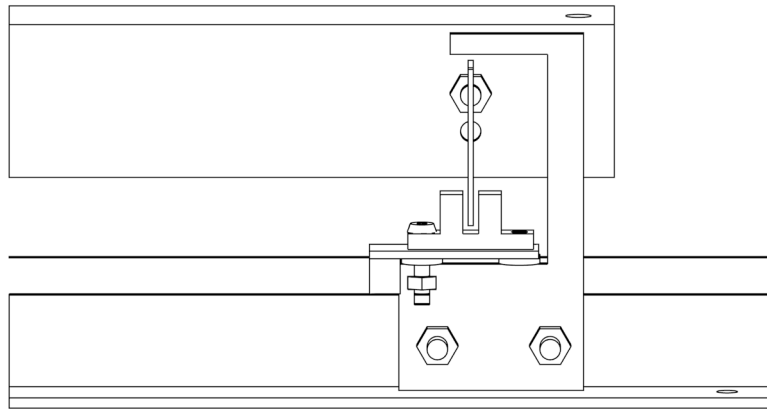
14

loosen 4x M5  
check alignment between  
beam and bottom frame  
tighten 4x M5



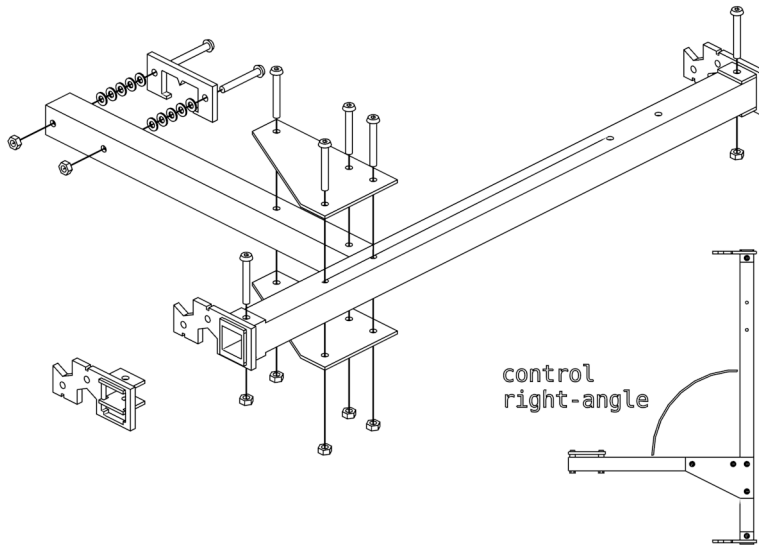
# 15

check shutter is centered  
between endstop fork  
bend shutter if necessary



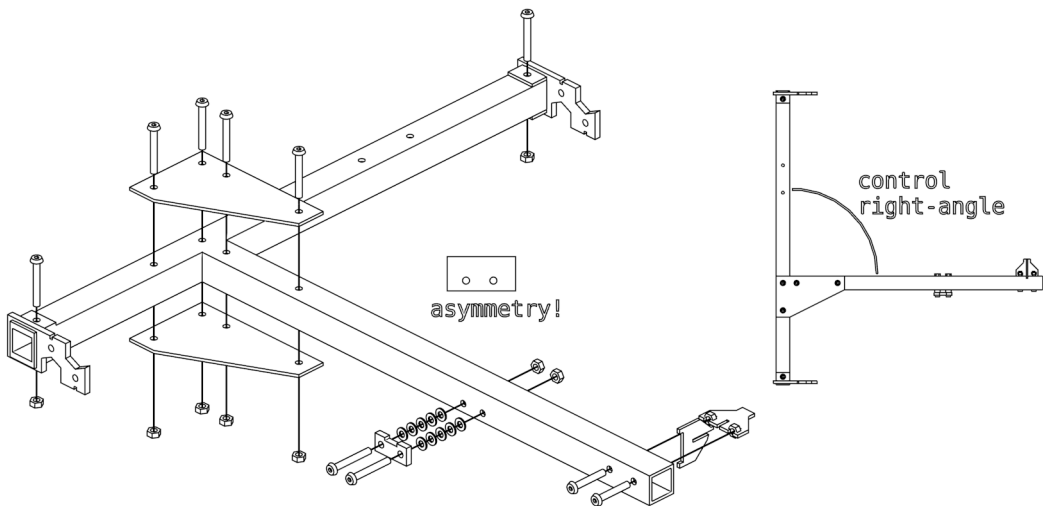
# 16

- 311
- 312
- 103
- 106 x2
- 201 x4
- 215 x2
- M4x30 x8
- washer M4 x10



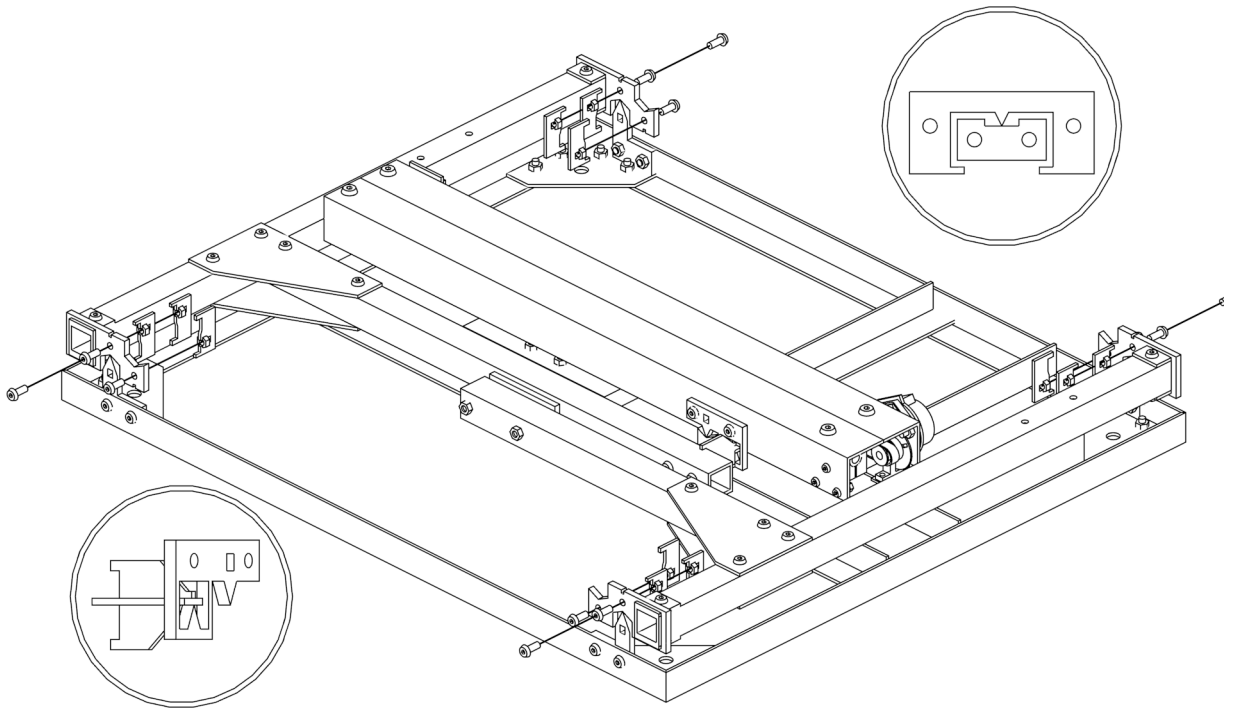
# 17

- 313
- 314
- 104
- 106 x2
- 201 x4
- 208
- 209
- 215 x2
- M4x30 x8
- M4x25 x2
- washer M4 x10



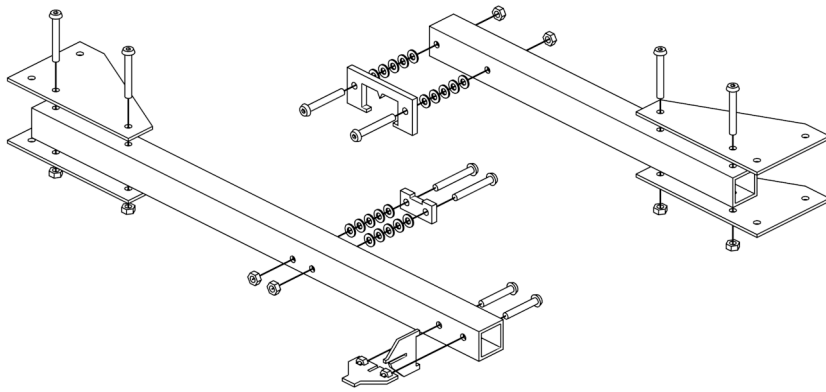
18

207 x4  
M4x10 x4



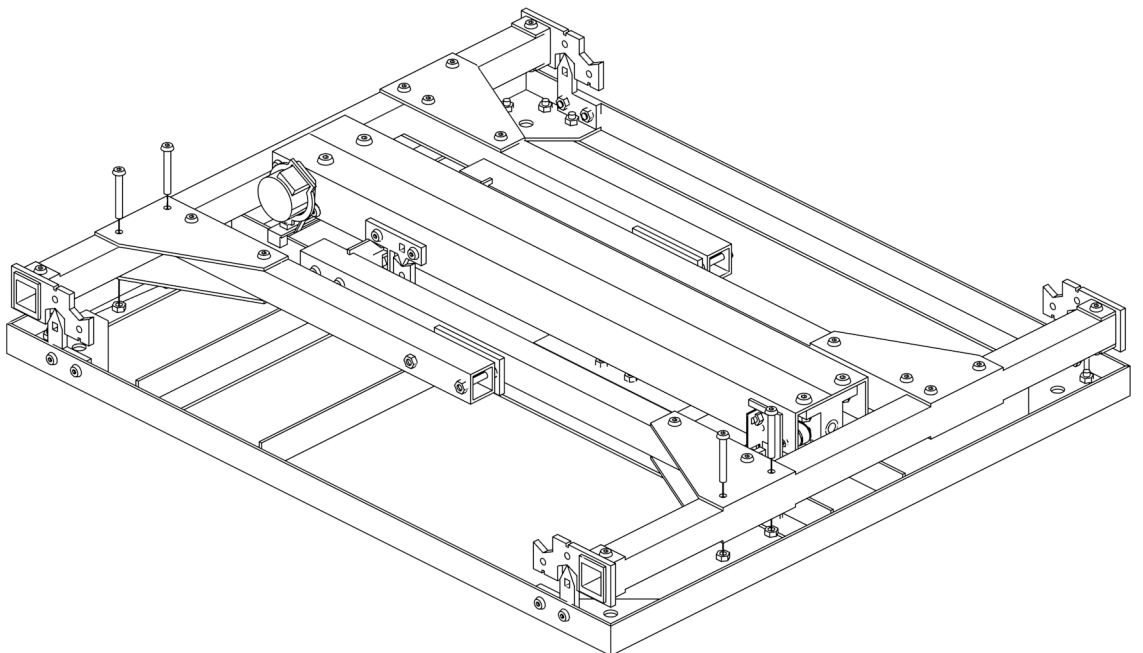
19

312  
314  
103  
104  
208  
209  
215 x4  
M4x30 x8  
M4x25 x2  
washer M4 x20



20

M4x30 x4



21

207 x4  
M4x10 x4

