



Date \_\_\_\_\_

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co: ~~Mass~~

com

kx

cam of the

Origin is center of  
bottom base plate

Component	Mass	com
leg rev	1.572 g	36.924, 33.316, 1.222
leg parallel	0.462 g	32.157, 30.379, 10.991
linkage		
leg servo arm	0.607 g	31.517, 30.205, 4.016
Servo	0.485 g	24.03, 31.428, 5.945
bottom pivot plate	1.317 g	21.733, 21.118, 1.109
leg servo mount	1.148 g	25.361, 28.358, 6.898
leg parallel plate	0.869 g	27.102, 23.549, 7.516
leg top plate	1.25 g	21.983, 21.328, 14.441

~~27.2393~~

$$x = 27.5394 \text{ mm}$$

$$y = 26.9089 \text{ mm}$$

$$z = 5.6235 \text{ mm}$$

the position of the com can be scaled accordingly. It can be safely assumed that the weight of all components will be in the same ratio (density is the same upon scaling, volume for all components will be scaled by the same factor).

$$\begin{matrix} 1 \\ 2 \\ 3 \end{matrix}$$