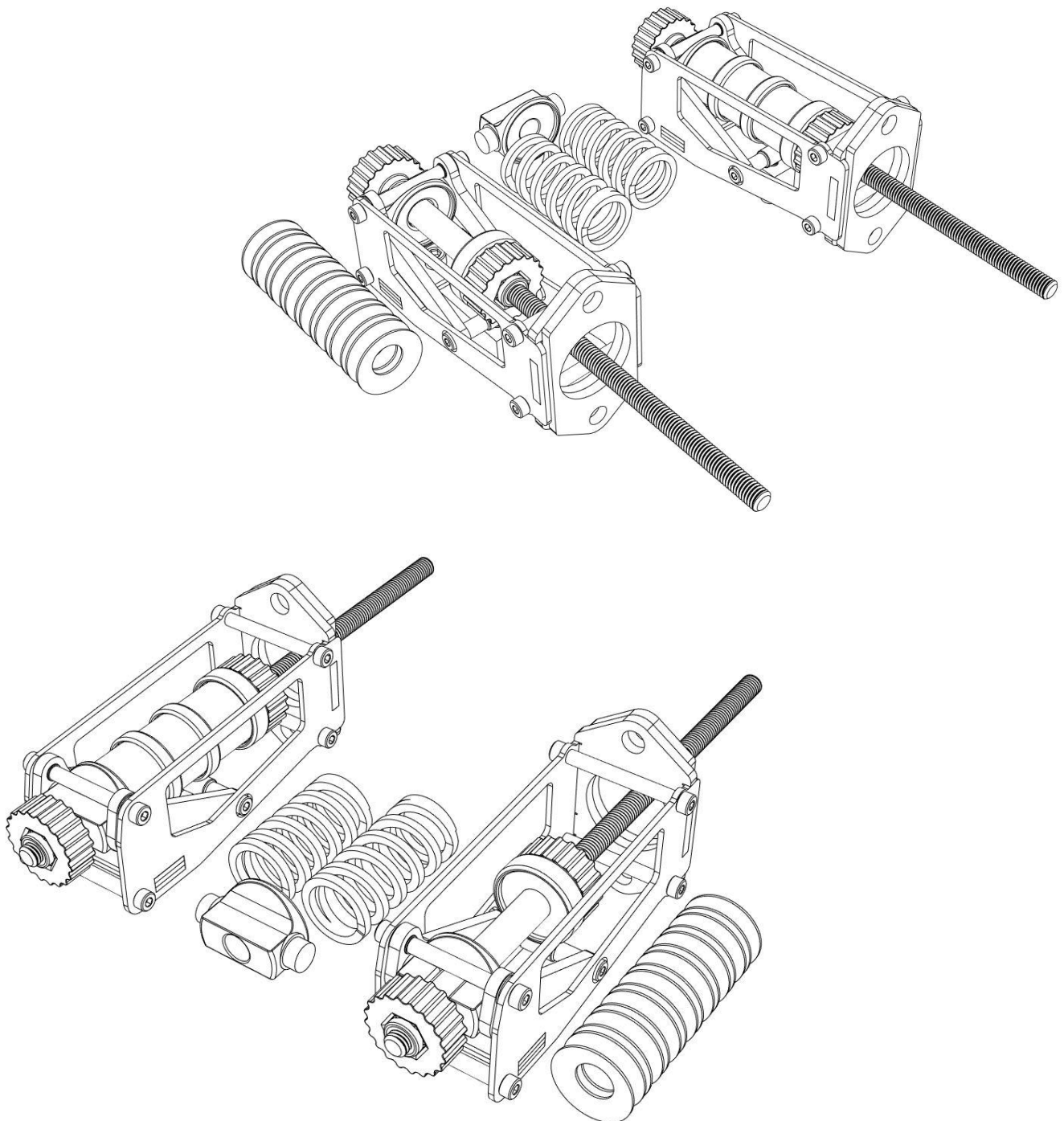


- Assembly Instructions - SimCylinder DIY Kit



Read First

Read before assembly



Read carefully and fully understand the instructions before commencing assembly. A supervising adult should also read the instructions if a child assembles the kit.



When assembling this kit, tools including knives are used. Extra care should be taken to avoid personal injury.



When assembling be careful with the laser cut parts. Some of them could have burrs on the edges. Handle them with care or use a metal file for carefully deburring them to avoid personal injury.



Only use appropriate tools for assembly.



If you are in doubt or unsure about a detail or need help of any sort while assembling, don't hesitate to contact us (see last page for details).



SimCylinders are only designed to be used as HID for Personal Computers. They are not designed to be used in land, air, sea or motorsport vehicles of any kind. If you plan to use them in a different application, please get in contact with us.



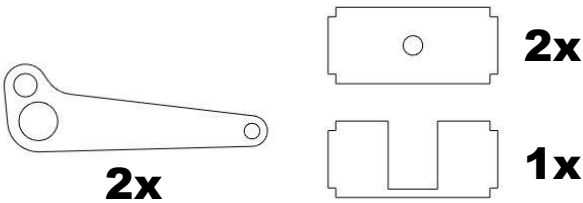
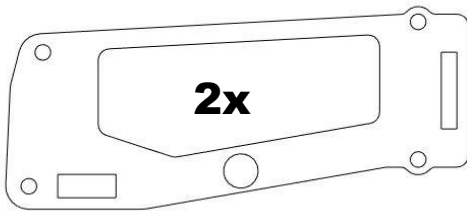
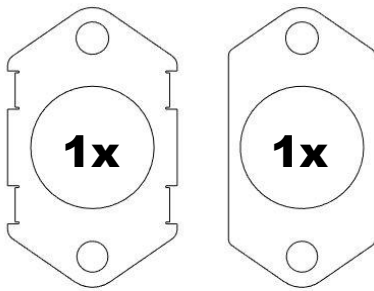
We are not responsible for malfunctions or personal and material damages/injuries due to inappropriate use or build of the SimCylinders.



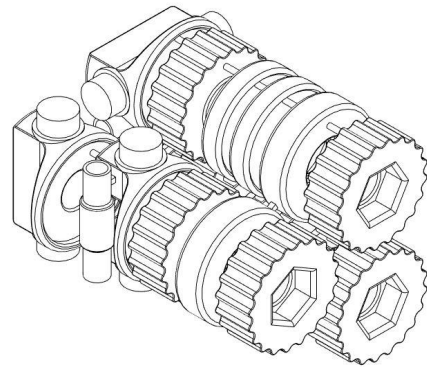
We are not responsible for malfunctions and damage caused by third party suppliers, like manufacturer of pedalboxes or other components you choose to use for your build.

Parts Overview – 1 SimCylinder Kit

Lasercut Parts (3x per Kit)



3D printed Parts (sold separately)**

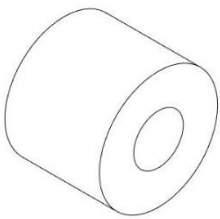


**3D printed Parts must be ordered separately through our *i.materialise-shop* and do not come with the kit.
You can find the link to our shop on our homepage
(<https://www.simplounge.com/start/products/simcylinder/>)

Parts are 3D printed requiring removal from sprue and some pre-assembly.

Brake specific Parts

Fibroflex/Fibroelast Rubber Springs:



4x L=20mm Red 95 Shore A
4x L=25mm Red 95 Shore A

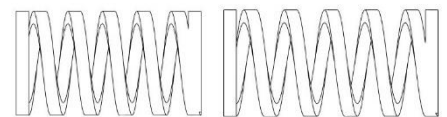
4x L=20mm Yellow 90 Shore A
4x L=25mm Yellow 90 Shore A

4x L=20mm Green 80 Shore A
4x L=25mm Green 80 Shore A

4x L=20mm White 70 Shore A
4x L=25mm White 70 Shore A

Clutch specific Parts (2 Versions)

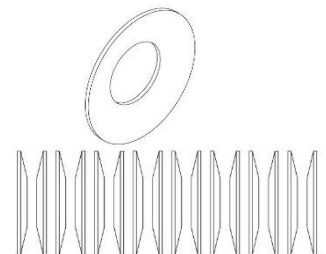
Version 1
Coil Spring



1x L=44mm

1x L=51mm

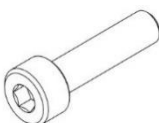
Version 2
Belleville Springs



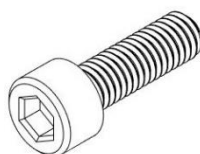
Nuts, Bolts, Rods, Bearings



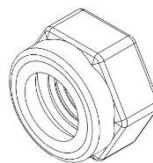
6x



30x M4x16



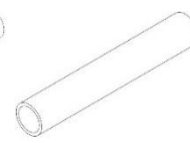
6x M5x16



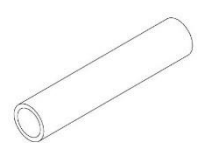
9x M8;
9x 5/16 UNF



12x D5 M4 L40



3x D5 M4 L30



1x Tube D12

1x M8 L=300mm; 1x 5/16 UNF L=300mm



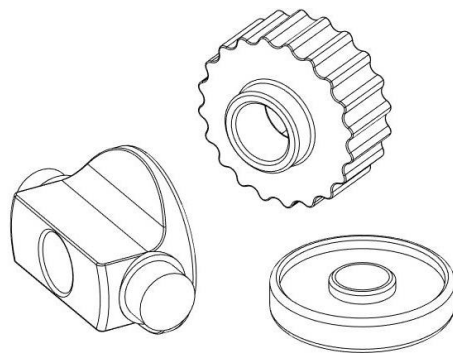
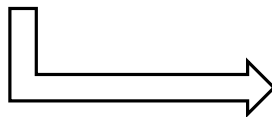
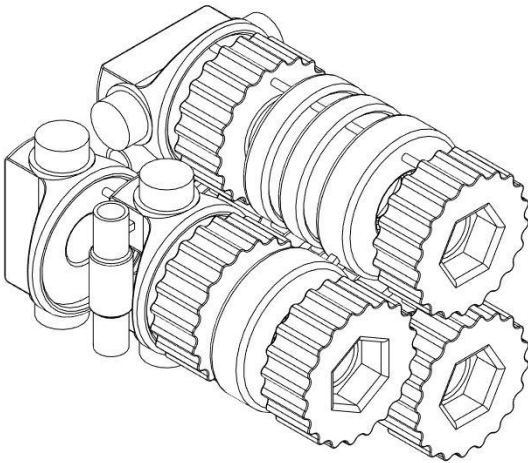
SimCylinder Assembly

Prepare 3D printed parts

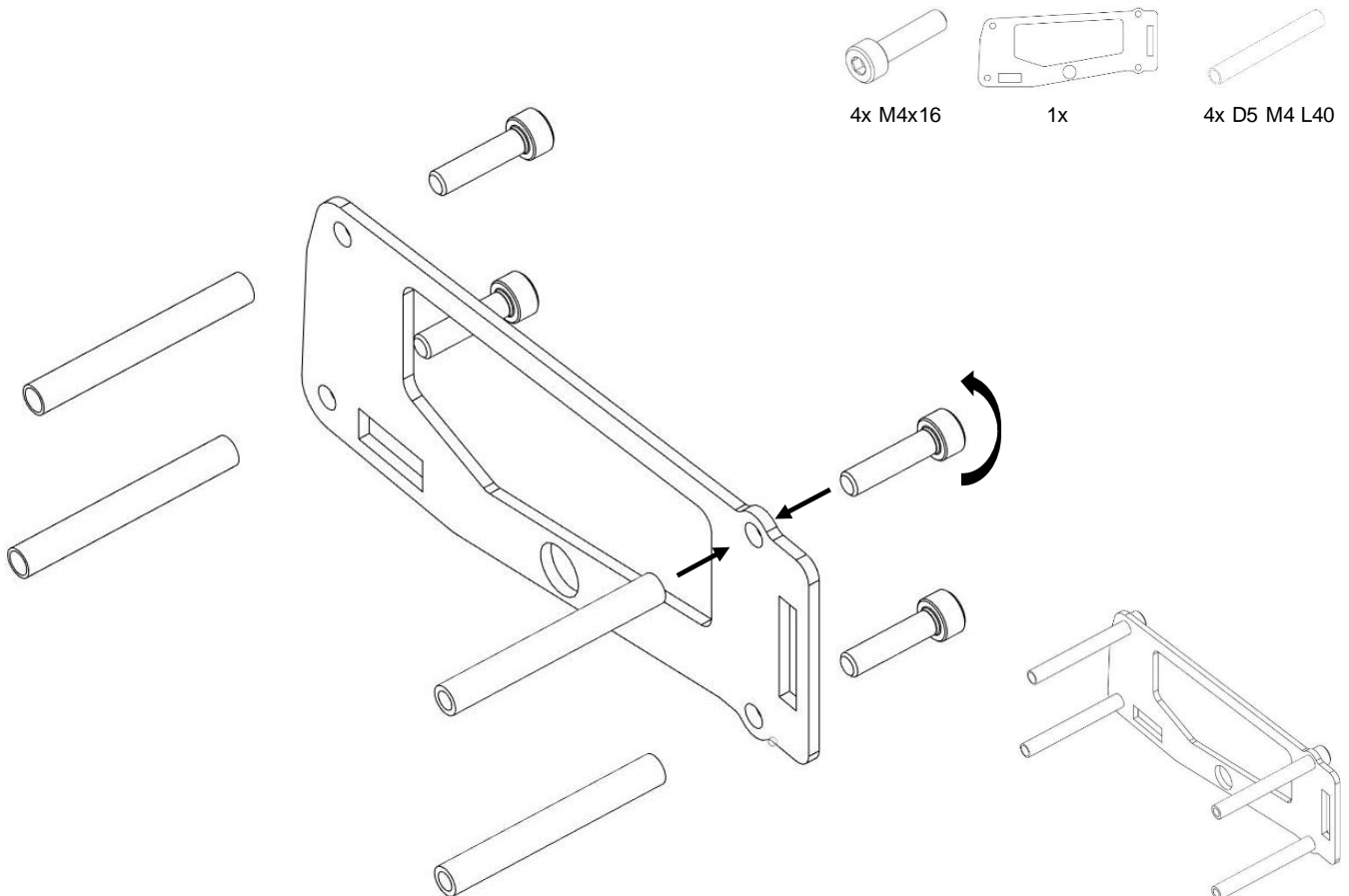
Parts are 3D printed requiring removal from sprue and some pre-assembly.

Separate the parts from each other by carefully pulling and twisting them.
The sprue can also be carefully removed with a side cutter.

Remove any remains of the sprue carefully with a craft knife.

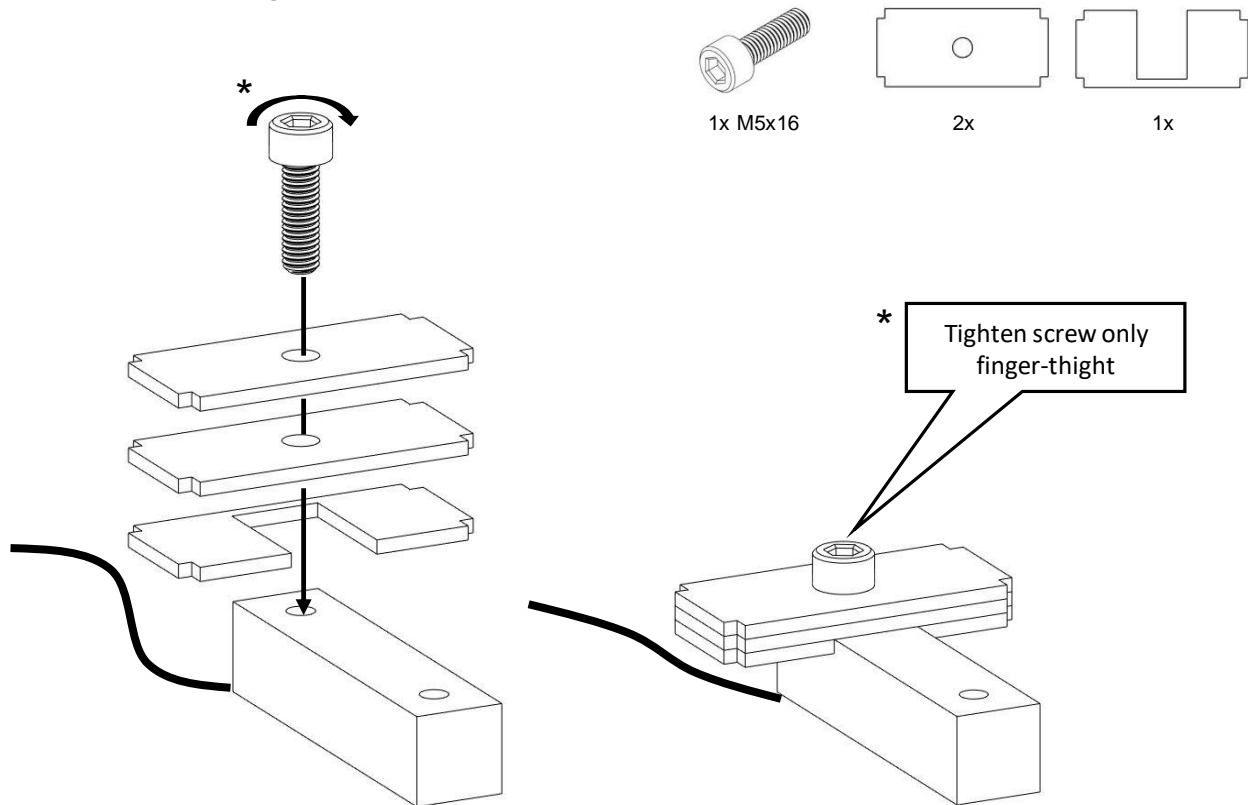


1

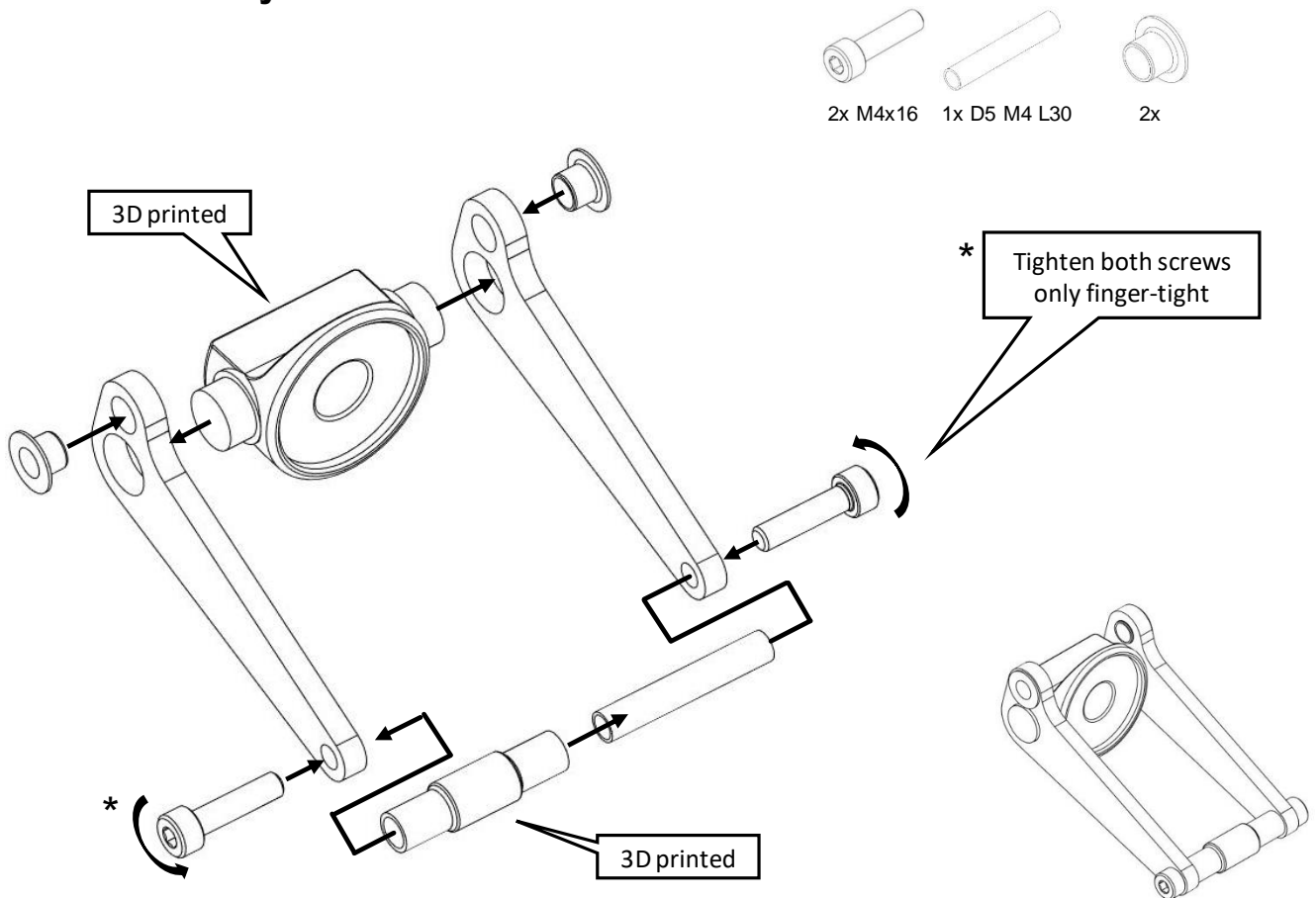


SimCylinder Assembly

2 Loadcell Assembly

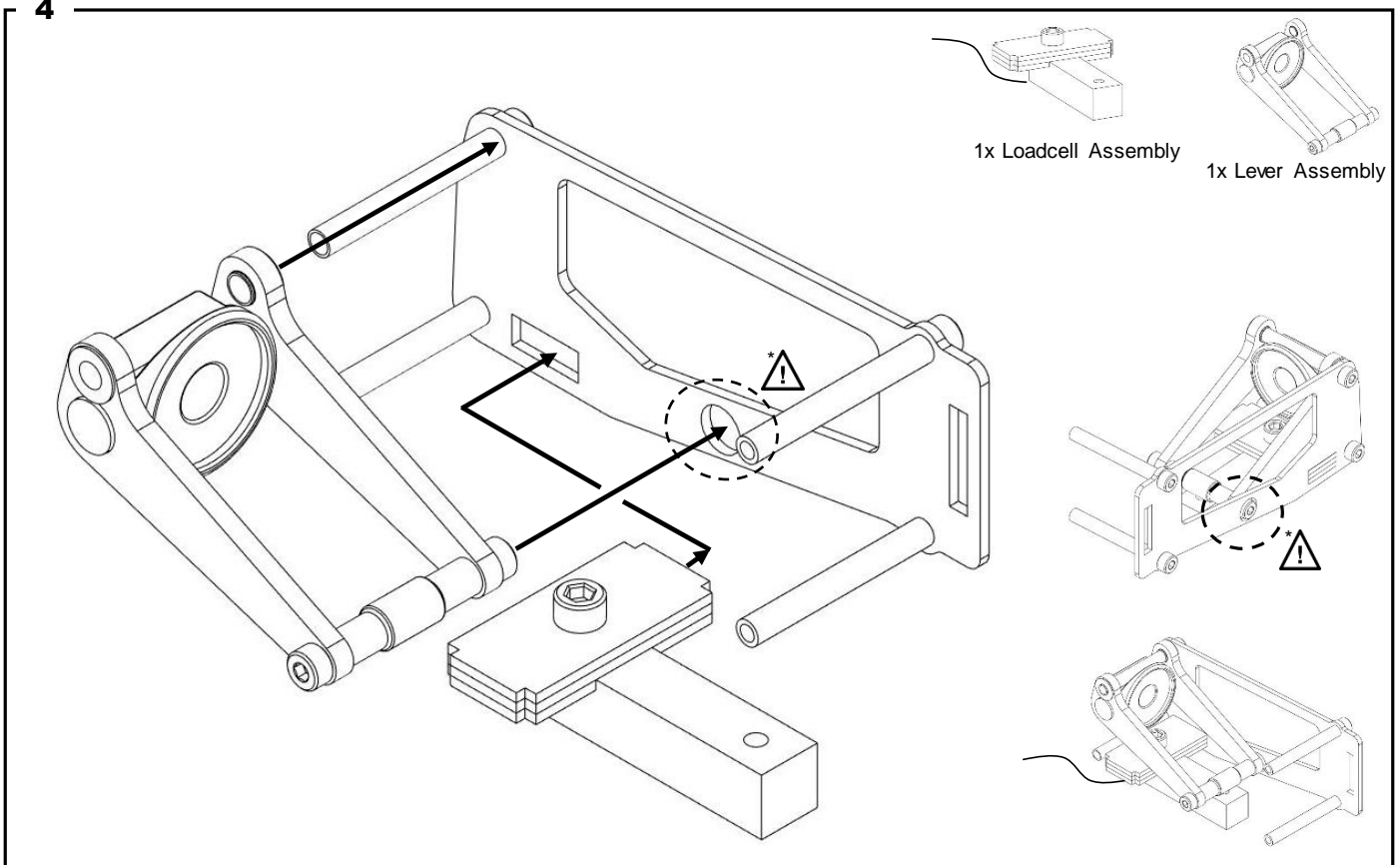


3 Lever Assembly

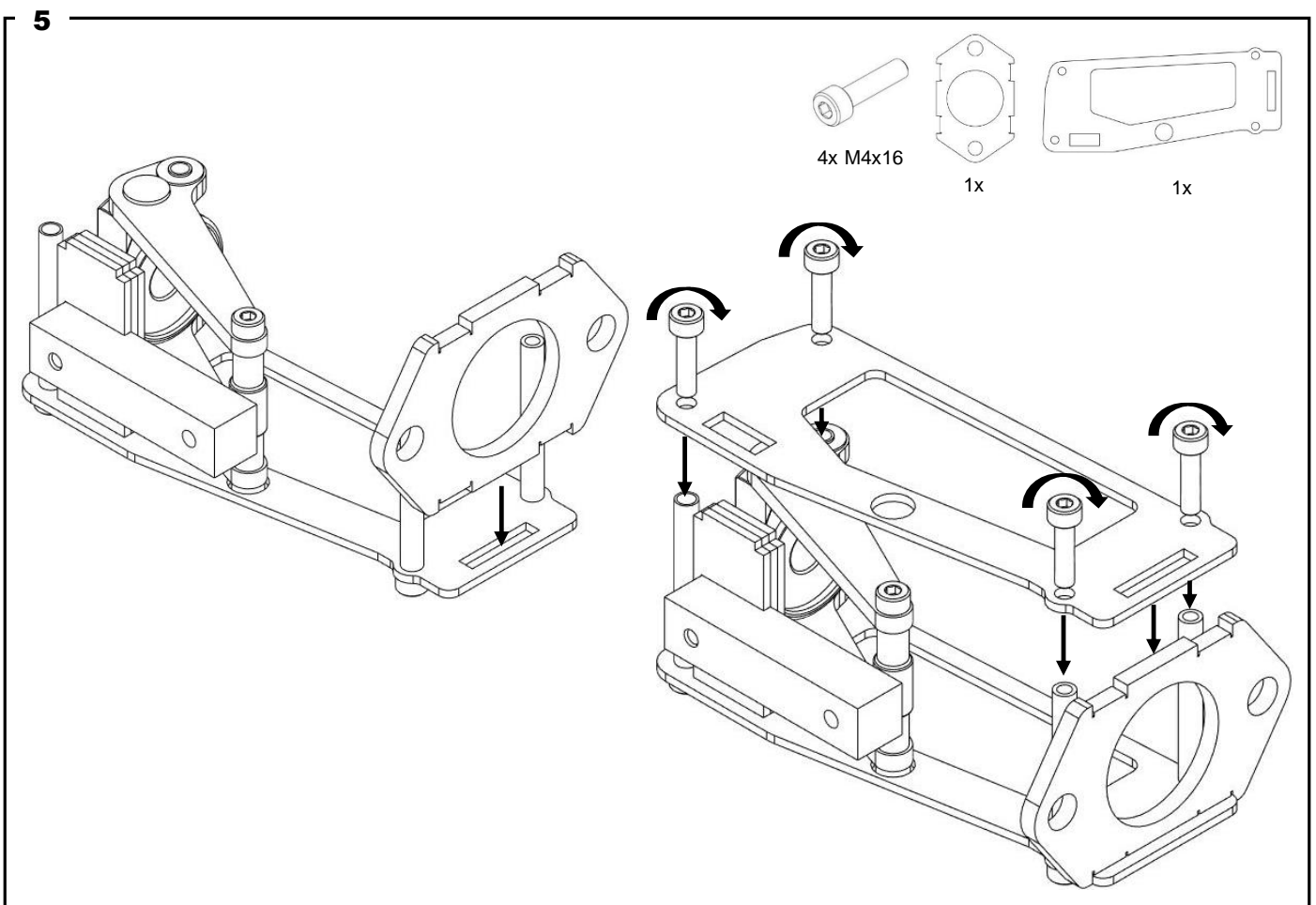


SimCylinder Assembly

4



5



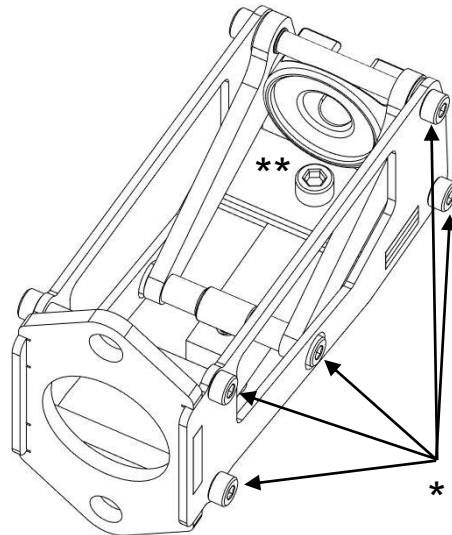
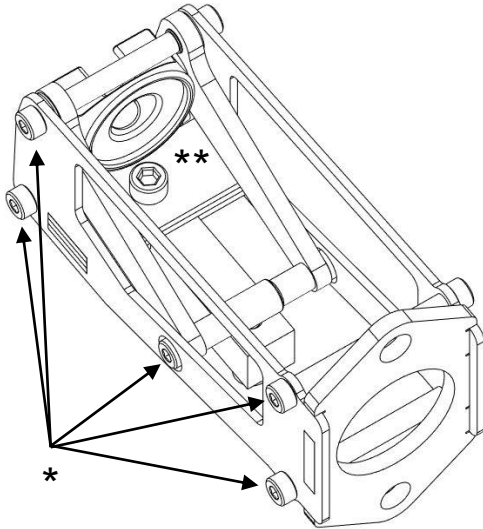
SimCylinder Assembly

6 Tighten Screws

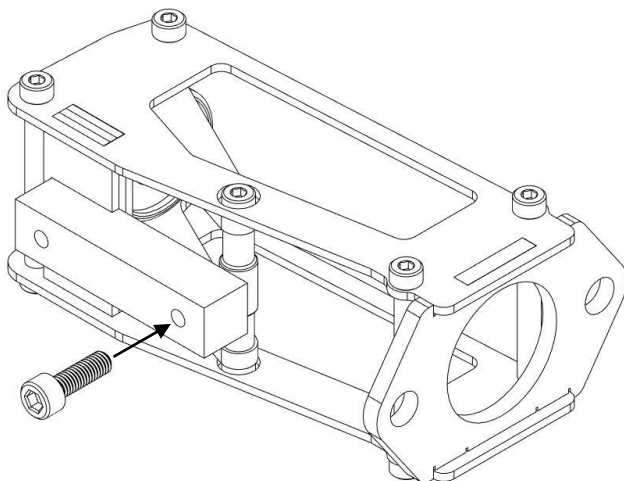
Tighten up all screws marked with *.

Tighten loadcell assembly screw, marked with **, last.

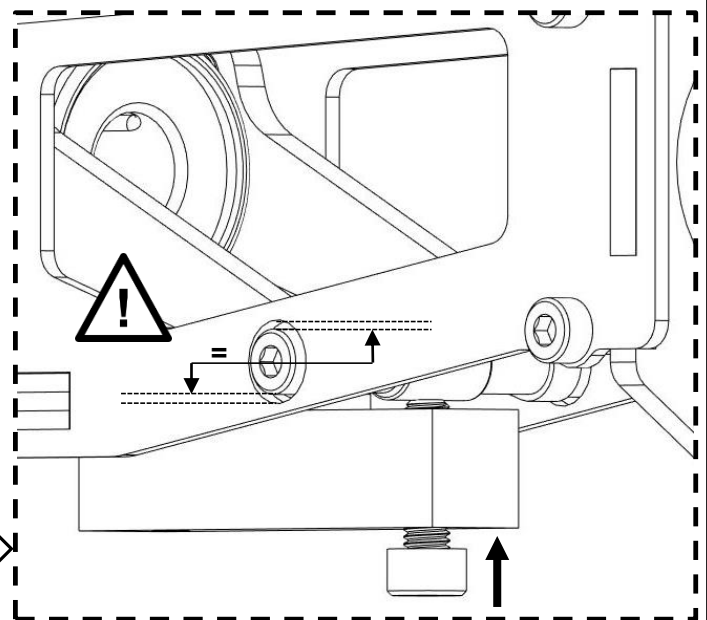
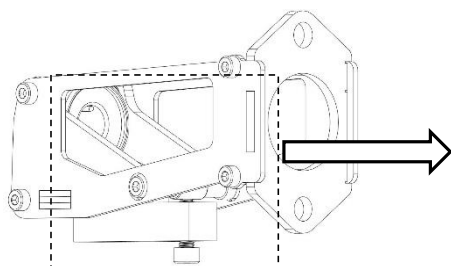
Apply tightening torque of 2Nm on all screws.



7 Loadcell/Lever adjustment



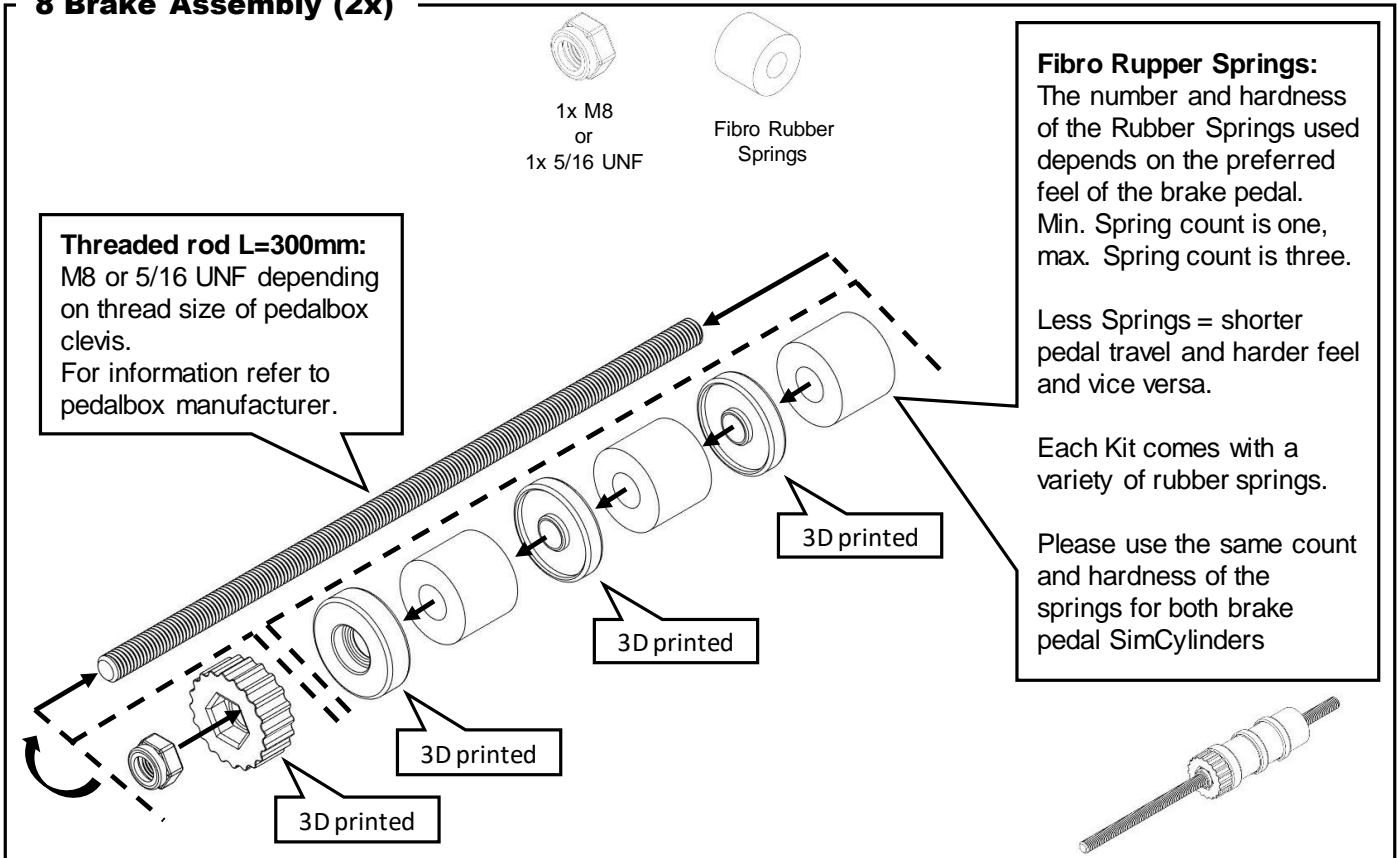
1x M5x16



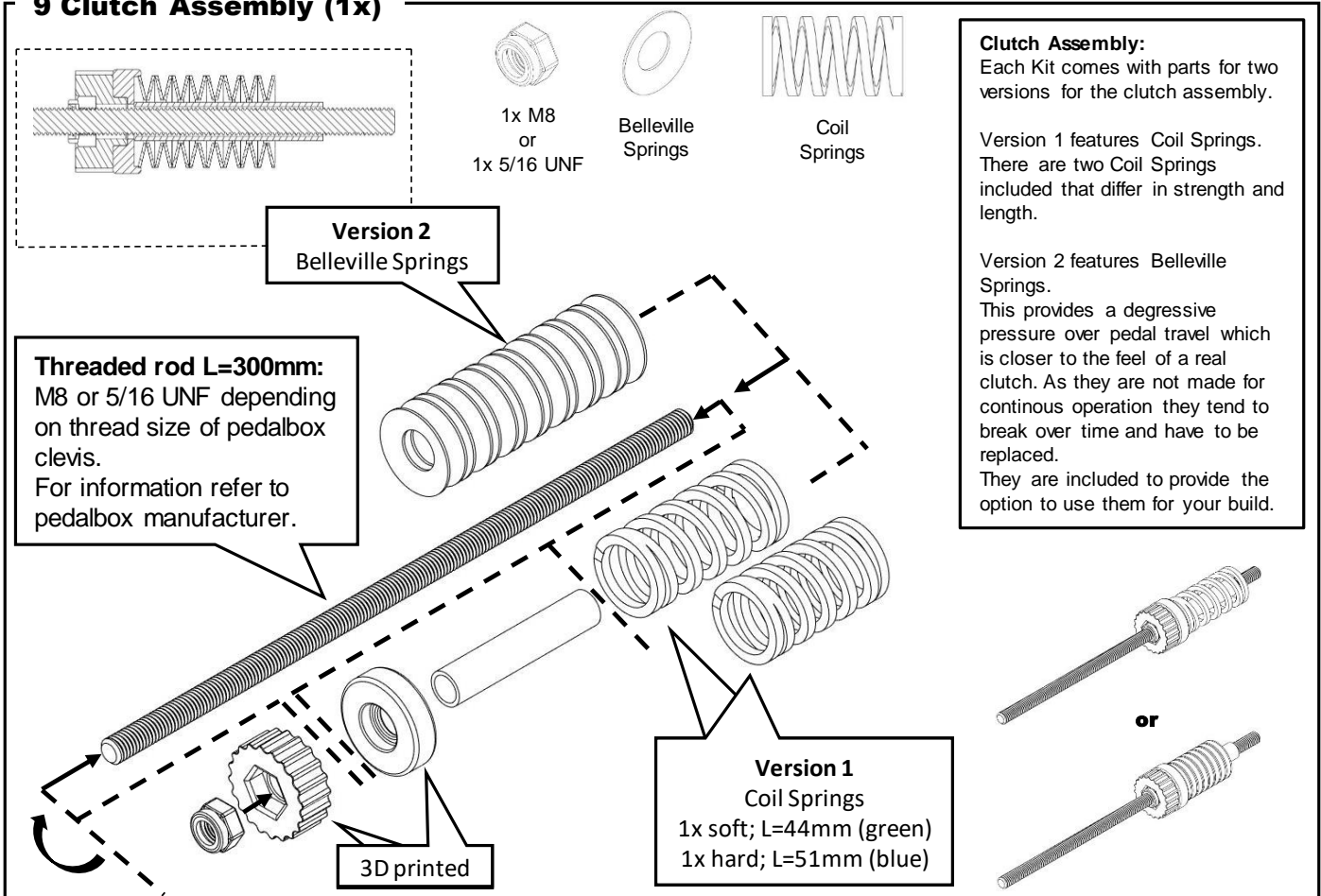
Screw carefully by hand

SimCylinder Assembly

8 Brake Assembly (2x)

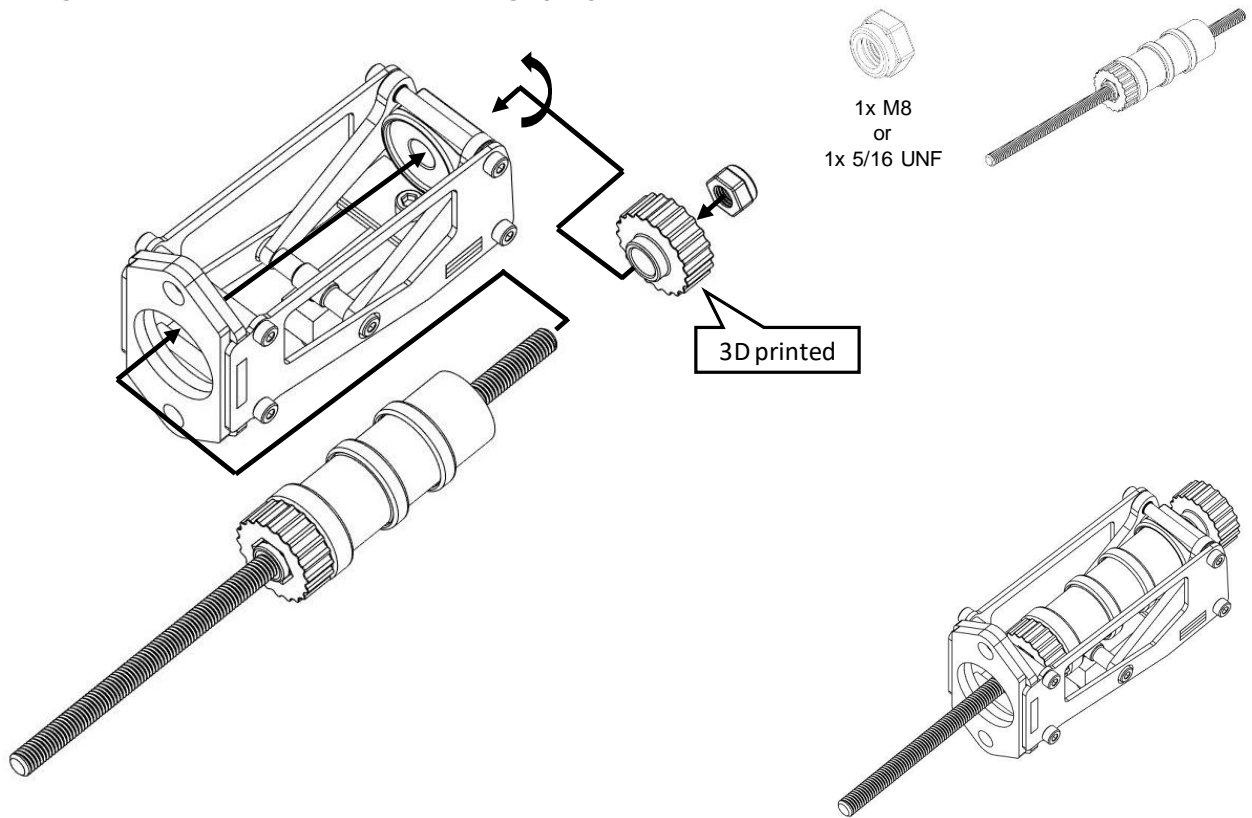


9 Clutch Assembly (1x)

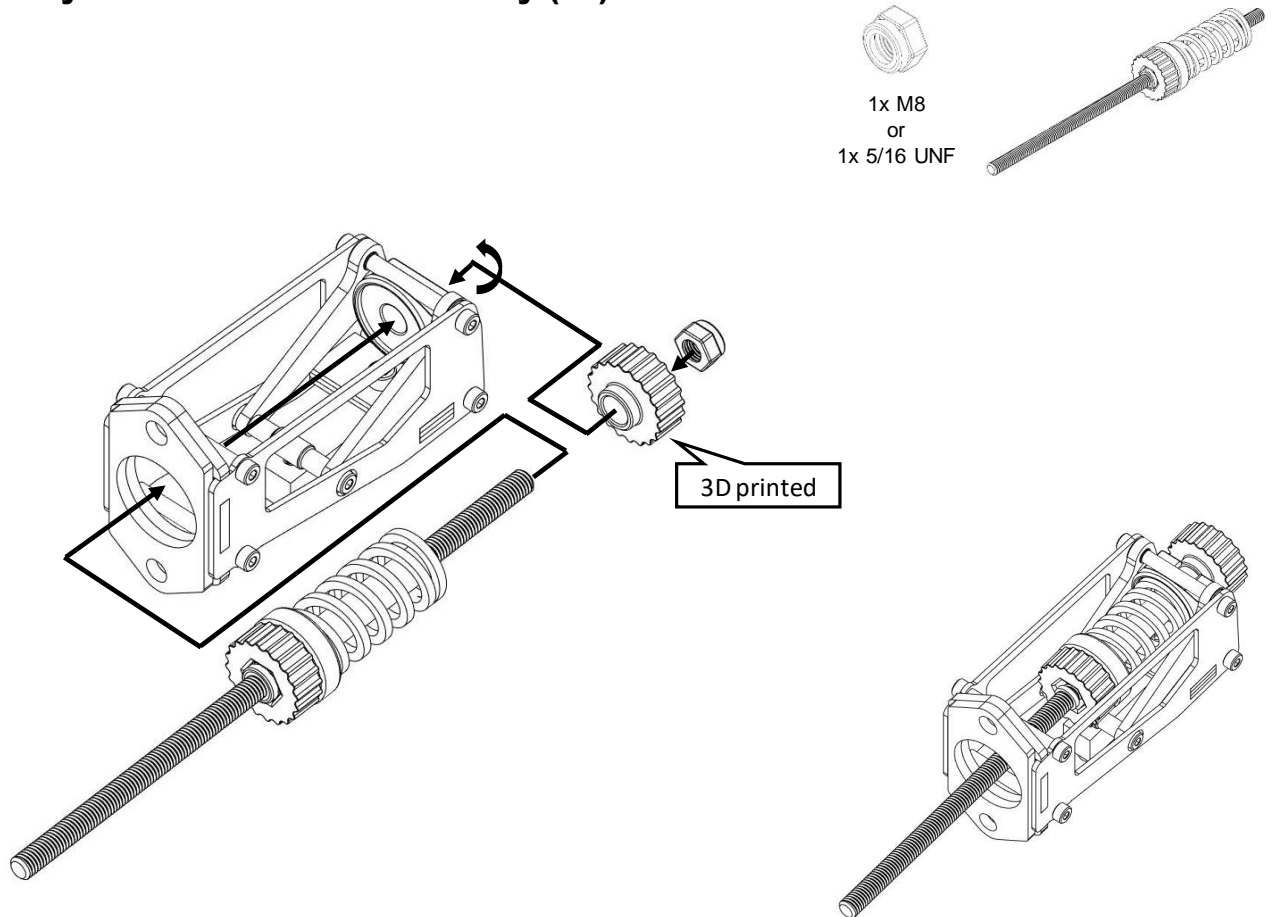


SimCylinder Assembly

10 SimCylinder Brake Final Assembly (2x)

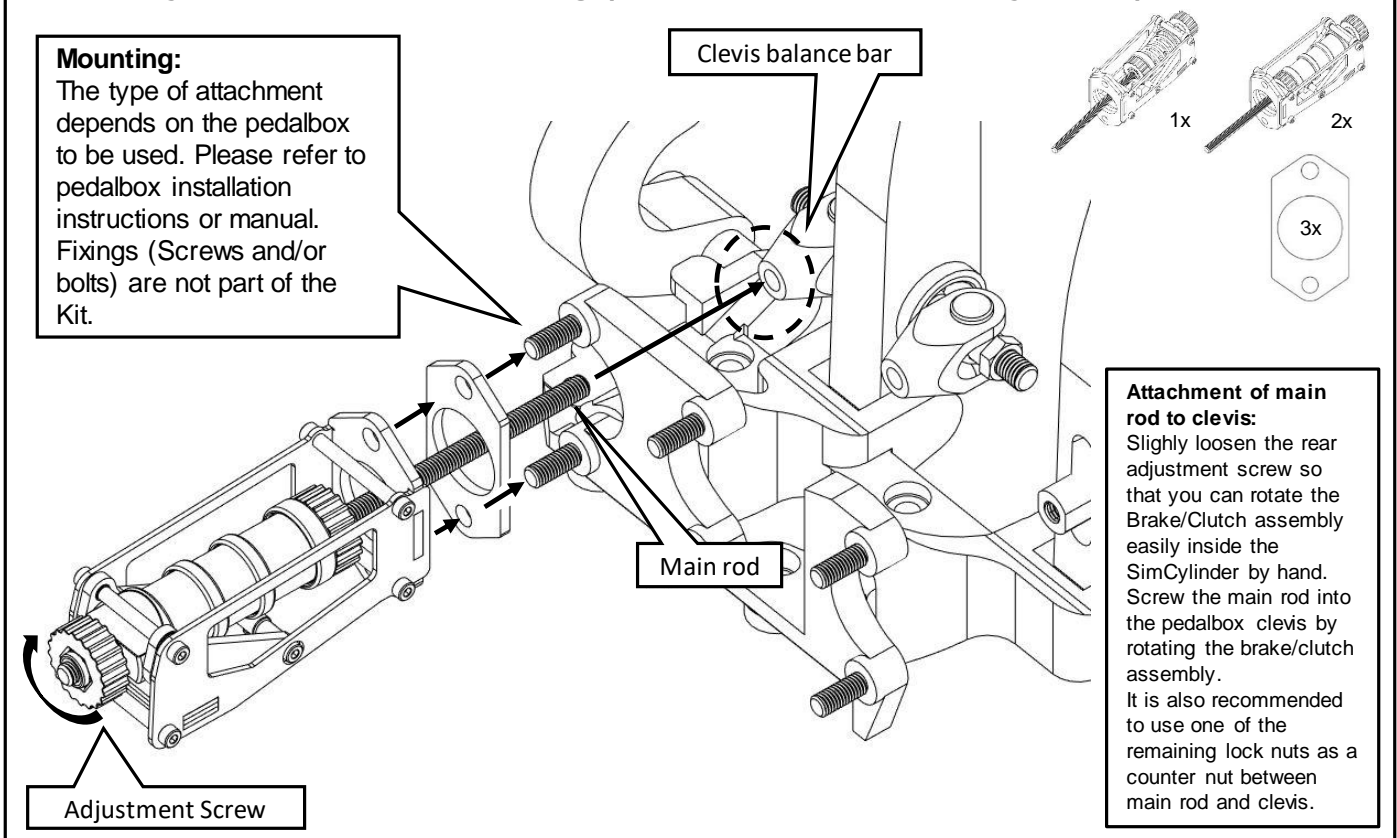


11 SimCylinder Clutch Final Assembly (1x)

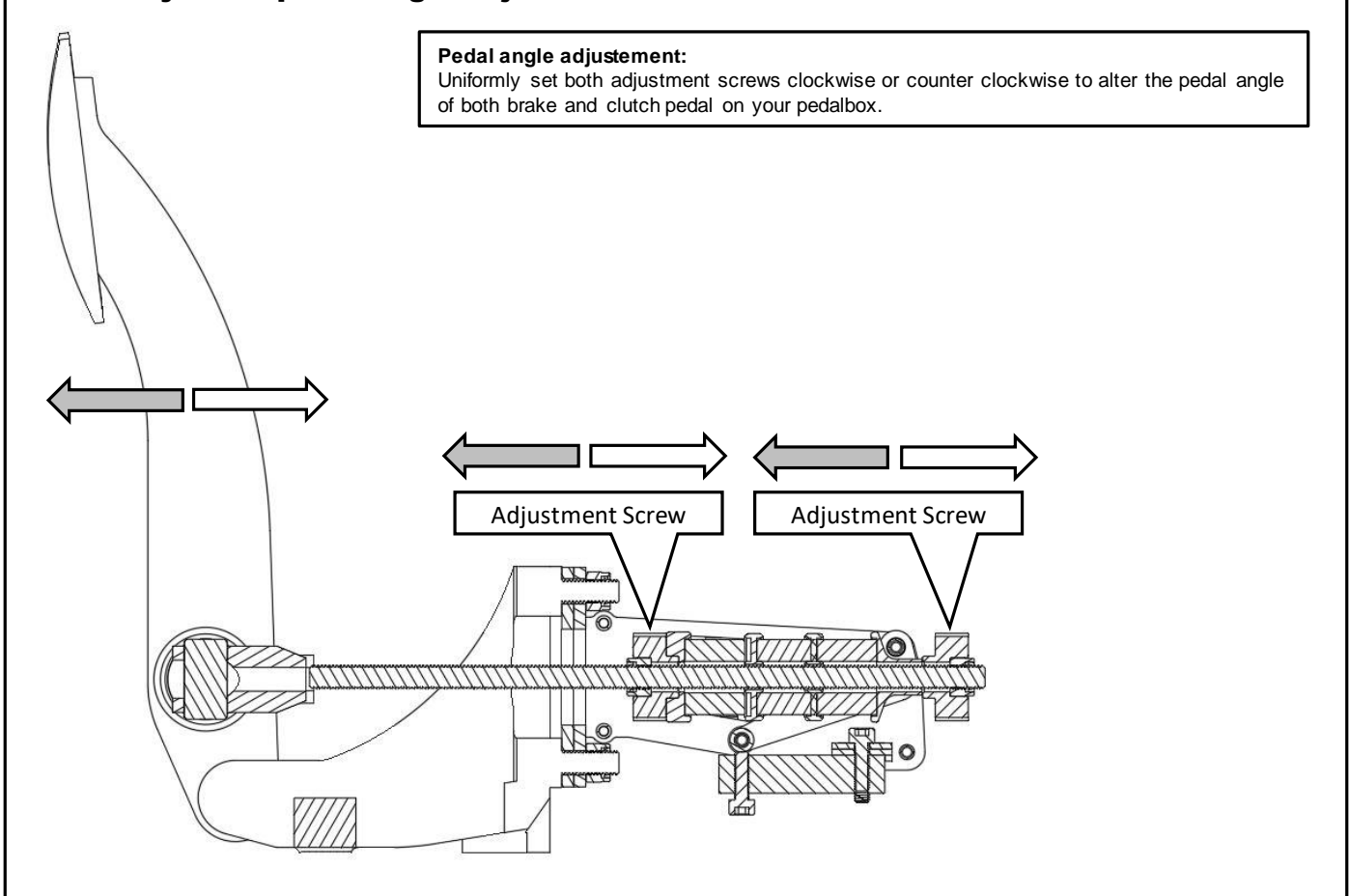


SimCylinder Assembly

12 SimCylinder Pedalbox Mounting (repeat for all three SimCylinders)

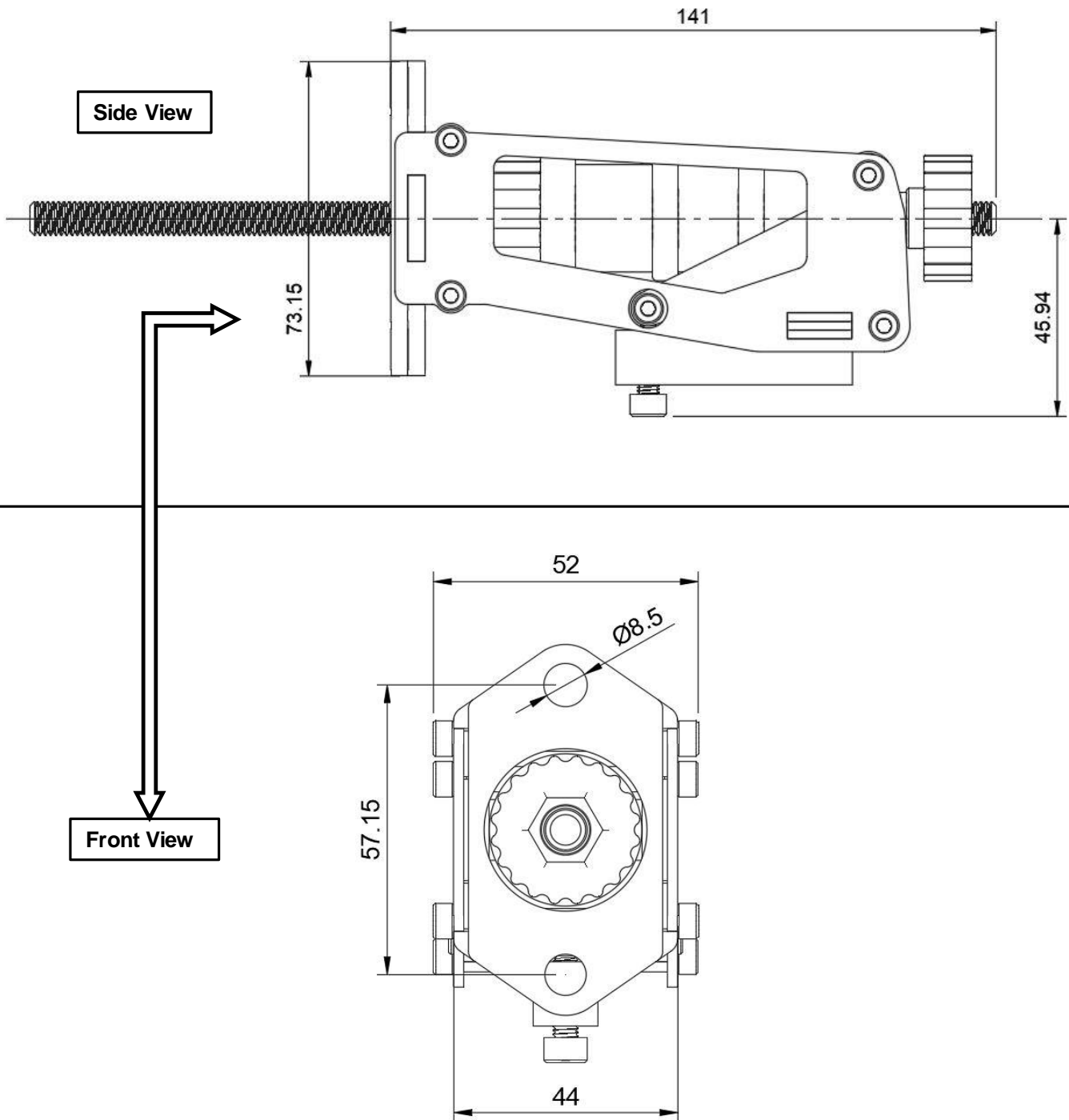


13 SimCylinder pedal angle adjustment



SimCylinder - Dimensions

SimCylinder Dimensions



Dimension Overview:

The above dimension overview helps you to clarify, if our SimCylinders will fit the pedalbox you plan to use for your build.

If you are not sure, please check information/installation drawings of the manufacturer of the pedalbox you plan to use or directly contact him.

Feel also free to contact us via mail (info@simprolounge.com) or via our official discord channel (<https://discord.gg/RgwZYpX>) if you have any questions.