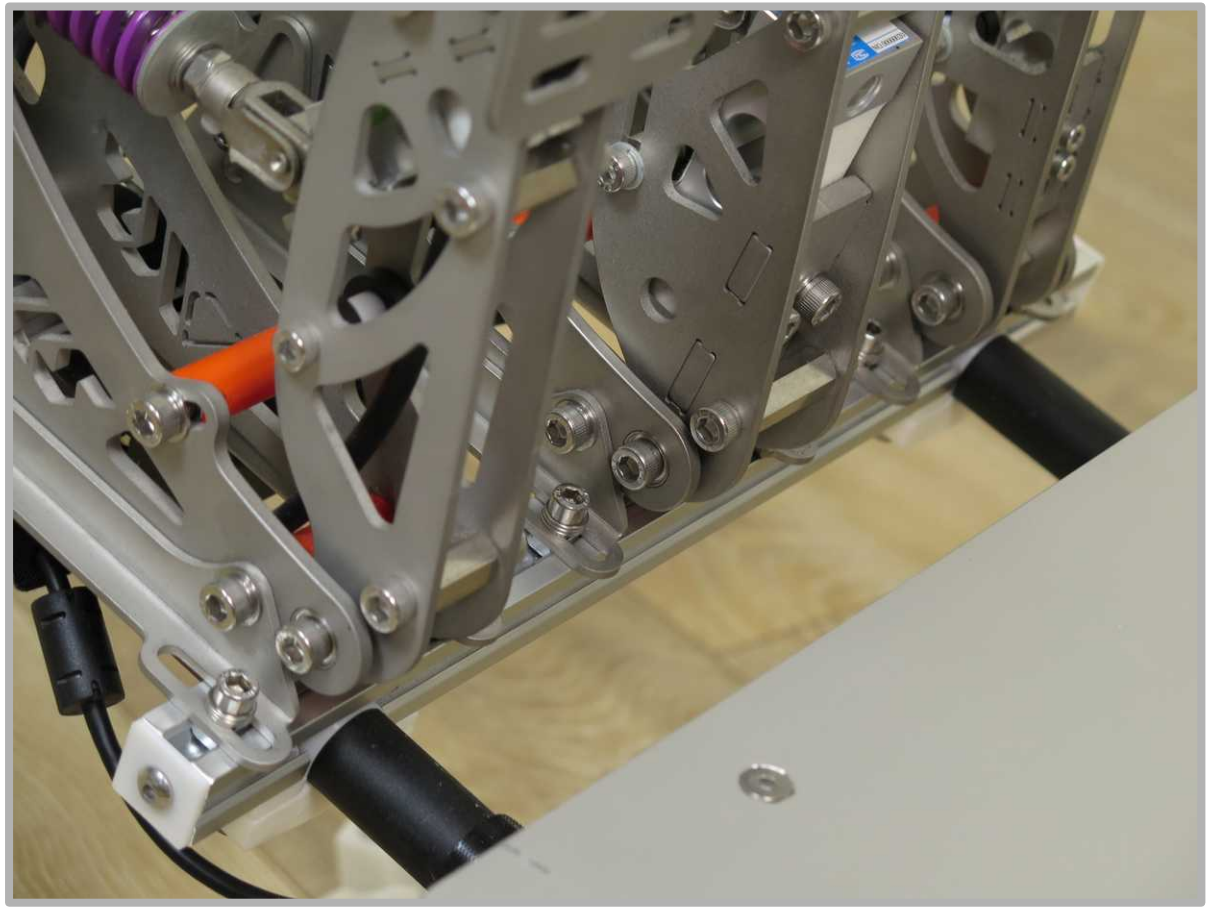
PLAYSEAT CHALLENGE LOCK-MOD

PEDAL MOUNT



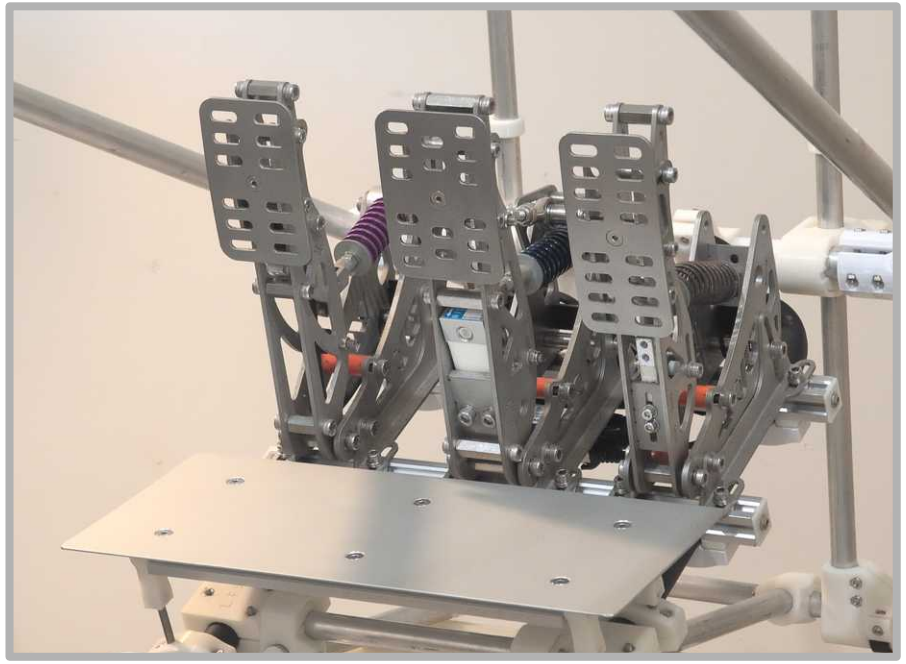
Assembly Manual

About

This is the assembly guide for the Lock-Mod: Pedal Mount. The base unit is a rigid, versatile aluminium profile based system compatible with practically any so, pedal hardware. Can be configured with additional mounting hardware for particular pedal sets, and a heel rest designed specially for the Playseat Challenge.

For use with the Playseat Challenge: Lock-Mod kit, or as a standalone unit with just the Playseat Challenge.

Note:
This Lock-Mod accessory is not compatible with the Playseat Challenge X (Logitech edition). Kits compatible with this latest product will be released as the Lock-Mod X.



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Tools

To assemble the *Lock-Mod: Strap Replacement Struts*, you'll need a pair of **M3 and M4 hex keys**. The primary Lock-Mod kit comes with a torque wrench that includes these hex keys, but you'll need to use your own if purchasing this as a standalone upgrade (or purchase the Lock-Mod torque wrench in your order as an extra).

It is recommended to use a torque wrench when assembling your kit to avoid over-torquing the fasteners, which can cause parts to fail. This assembly manual has an accompanying torque guide with the relevant values for each part, which you can find **here**.

If assembling your kit without a torque wrench, The guide should still be referenced to help contextualise which bolts need more/less tension. To reduce the chance of breaking parts with excessive force start with less tightening force than you feel is needed. This can be further tightened if needed after testing your rig.

Additional Tools

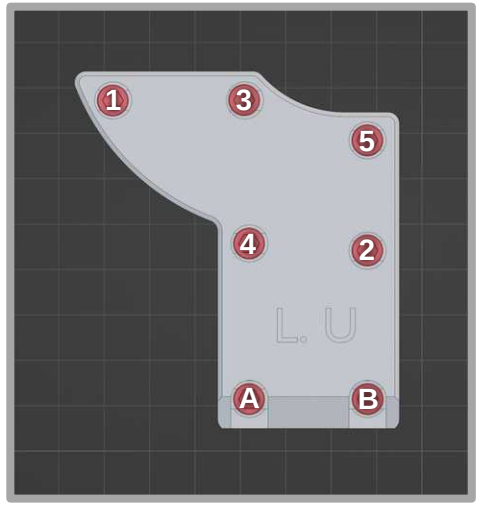
The pedal tray of the Playseat Challenge is lined with a rubbery foam that won't be needed with the pedal mount system. This will need to be but away to make room for the mounting clamps of the pedal mount and the heel rest.

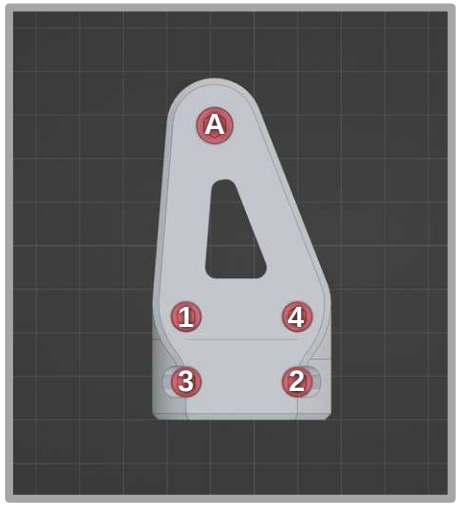
Additional Assembly Information

Cross Pattern Tightening

Where applicable, bolts should be tightened with cross pattern tightening. This applies to parts where multiple bolts are sharing a load, and involves incrementally increasing the torque while jumping between (roughly) opposite sides of the part. Doing this when assembling (or disassembling) a part will ensure a single bolt doesn't become over-strained, which can cause the thread/nut to seize up.

Examples of the cross pattern sequence are illustrated below. Note that this sequence will be repeated many times as you bring the bolts up to their final torque rating.





Care Instructions & Warranty

Care Instructions

- Storing the kit in temperatures above 53° C or 127 F should be avoided to avoid parts from warping.

Warranty

This kit comes with a 2-year warranty from the date of purchase, and it covers any failures resulting from reasonable use. Reasonable in this case assumes:

- All instructions in the assembly manual are followed.
- Force applied to the pedals is, at most, 80kg.

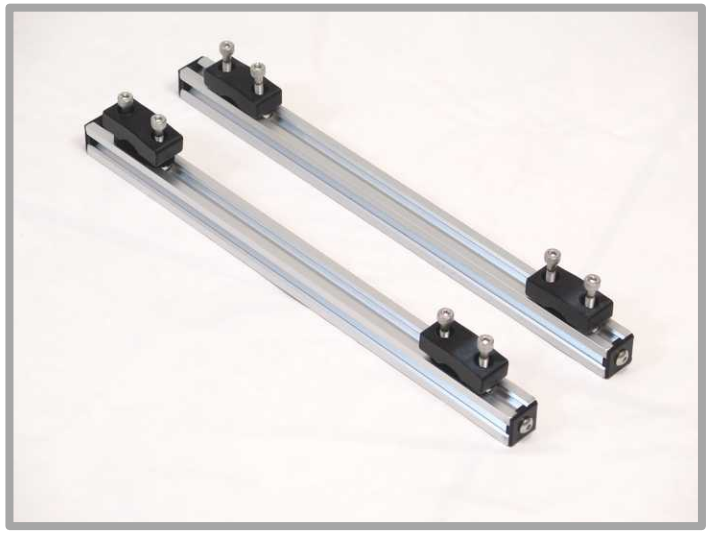
If these points are not adhered to the longevity of the Lock-Mod cannot be guaranteed.

If any problems are encountered with the kit, use the contact found here:

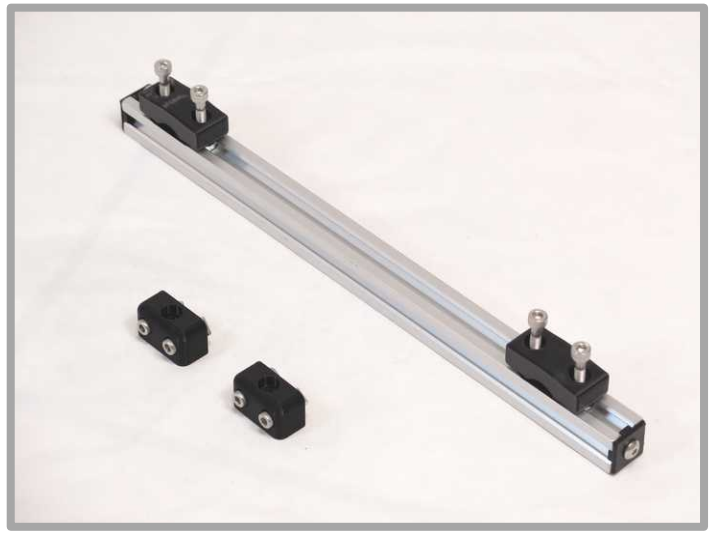
https://psyskip.com/about/

Kit Contents

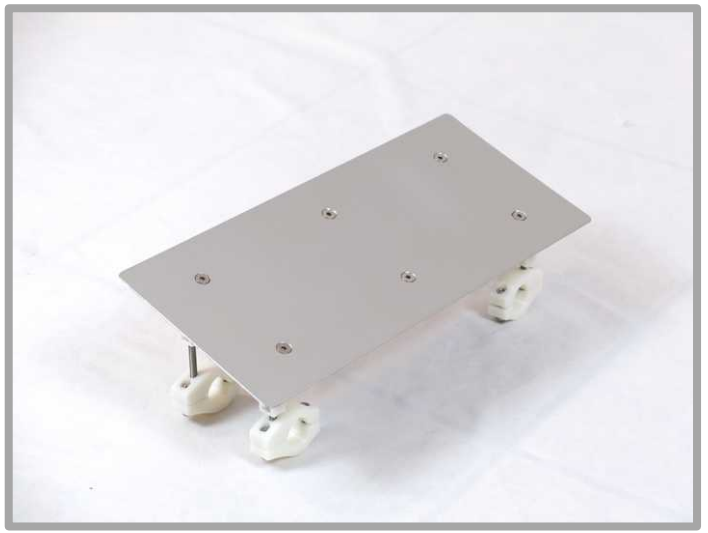
The Lock-Mod: Pedal Mount kit includes the 'base' content that allows attaches the 2020 aluminium profile to the Playseat Challenge, with additional hardware added depending on configuration options.



1.A. Base aluminium 2020 profile that mounts to the PSC pedal tray tubing.



1.B. Optional additional mounting hardware to suit a variety of pedal variations

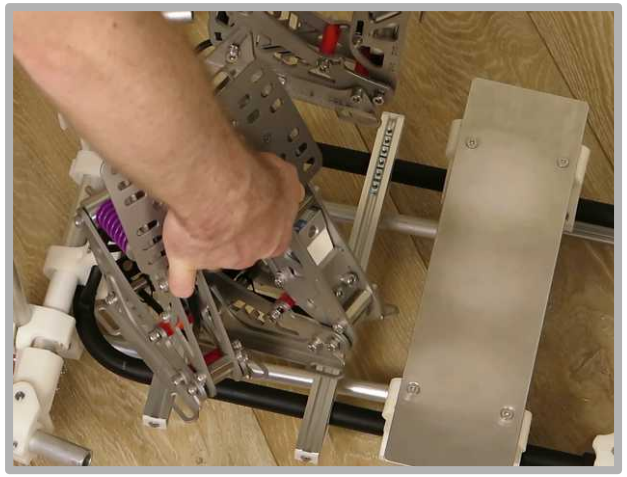


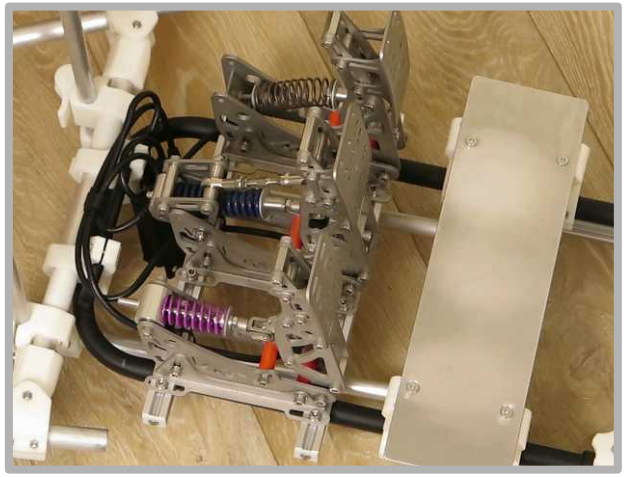
2. Optional heel rest for use with pedals that don't include one.

Pedal Configurations

The order of assembly for the Pedal Mount can vary depending on the pedals. If your pedals come as one complete unit (Thrustmaster, Logitech, etc) then it's best to attach your pedals to the aluminium profile first. Generally most pedals of this type are bolted in from the bottom, which can be difficult if the aluminium profile is already mounted to the PSC pedal tray.

For individual pedal modules (VRS, Heusinkveld, etc) it's easier to attach the aluminium profile to the PSC pedal tray first as a base to build your pedal layout on top of. These units are also generally bolted from the top, making access a bit easier.





Top Mount Hardware

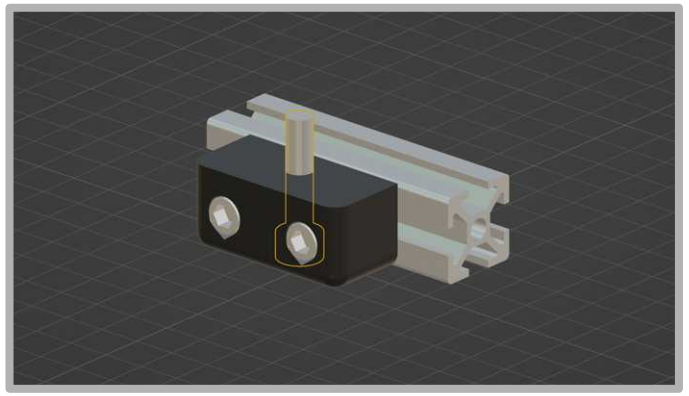
Pedal sets that don't have threaded inserts are usually designed for aluminium profile mounts, and are secured with M6 bolts with a matching T-nut. The optional mounting bolts included with the pedal mount come in a variety of lengths and a set of 3 washers per bolt to allow the length to be dialled in as needed. The formula to work out the required bolt length is:

Pedal base thickness (distance between top of pedal mounting hole to topside of aluminium profile mount) ***+ washer stack*** (between 1-3mm) ***+ T-nut thread*** (between 3-5mm) = ***bolt length***

The ***washer stack*** and ***T-nut thread*** values can be adjusted to fit one of the M6 bolt length options in the configuration menu.

Bottom Mount Hardware

For pedal sets with threaded inserts that require bolts to be threaded up into the base from the bottom, the optional right angle bracket can be used. This removes the need for drilling and makes installation and adjustment of the pedals much easier.



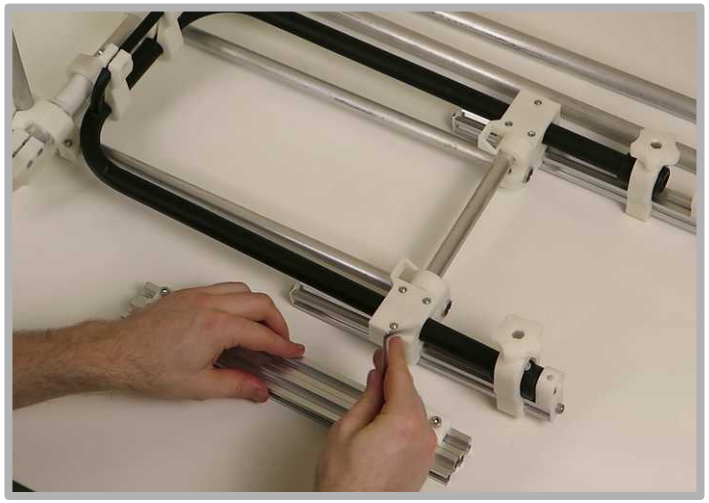
For some pedals a combination of these mounts is required. Pedal specific mounting options are available as extras on the pedal mount configuration menu **here**, and a breakdown of pedal set compatibility is available on the next page.

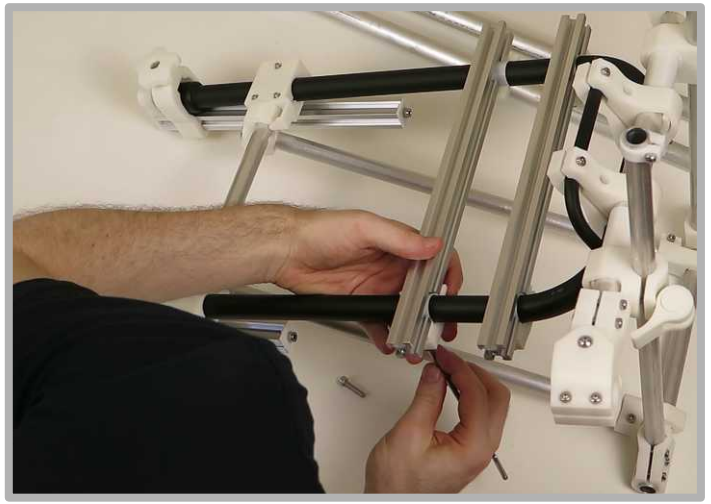
Selection	Mounting Hardware Contents	Pedal Compatibility
None	- Base unit	Dependent on user hardware
4 x M6	- Base unit - 4 x M6 socket head bolts of specified length - Matching T-Nuts and washers	Pedal sets that comprise of a single unit (rather than individual pedal modules) that uses 4 x M6 bolts screwed down into the pedal mount.
4 x M6	- Base unit - 12 x M6 socket head bolts of specified length - Matching T-Nuts and washers	Pedal sets that comprise of individual modules with no unifying base that can use 12 x M6 bolts (4 per module) screwed into the pedal mount.
Fanatec CSL	- Base unit - 2 x bottom mount adapters - 2 x 40mm M6 socket head bolts (25mm effective length) - 2 x 8mm M6 socket head bolts - Matching T-Nuts and washers	- CSL Pedals - CSL Pedals LC
Thrustmaster T3PM	- Base unit - 5 x bottom mount adapters - 5 x 30mm M6 socket head bolts (15mm effective length) - Matching T-Nuts and washers	- Thrustmaster T3PM - Thrustmaster T-LCM (middle attachment bolt not used)
Thrustmaster T-LCM	- Base unit - Additional aluminium profile (for middle bolt attachment) - 5 x bottom mount adapters - 5 x 30mm M6 socket head bolts (15mm effective length) - Matching T-Nuts and washers	- Thrustmaster T-LCM
Moza SRP Lite	- Base unit - 2 x bottom mount adapters - 2 x 30mm M6 socket head bolts (15mm effective length) - 2 x 8mm M6 socket head bolts - Matching T-Nuts and washers	- Moza SRP Lite
Logitech Pedals	- Base unit - 6 x bottom mount adapters - 6 x 25mm M6 socket head bolts (9mm effective length) - Matching T-Nuts and washers	- Logitech Pro Racing Pedals - Logitech G29 Pedals - Logitech G920 Pedals - Logitech G923 Pedals

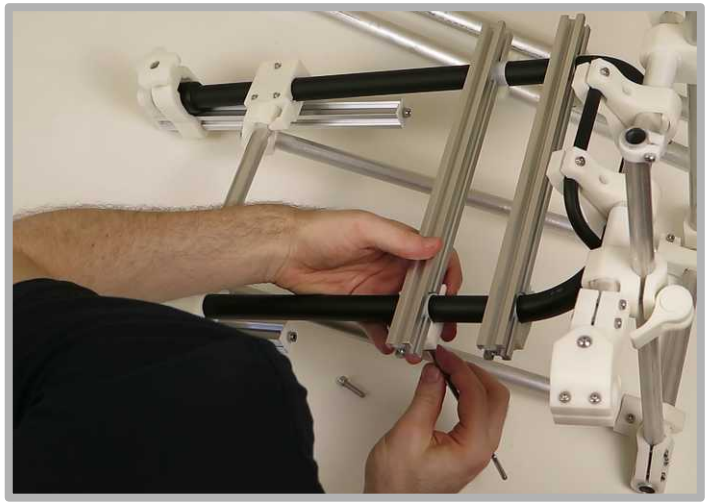
Pedal Mount Assembly

For ease of installation, it is best to completely remove the pedal tray from the main PSC frame. The rubber lining can now be removed with a pair of scissors or safety blade.

If attaching the pedal mount in conjunction with the full Lock-Mod upgrade kit, attach the Lock-Mod upgrade before mounting the pedals. T





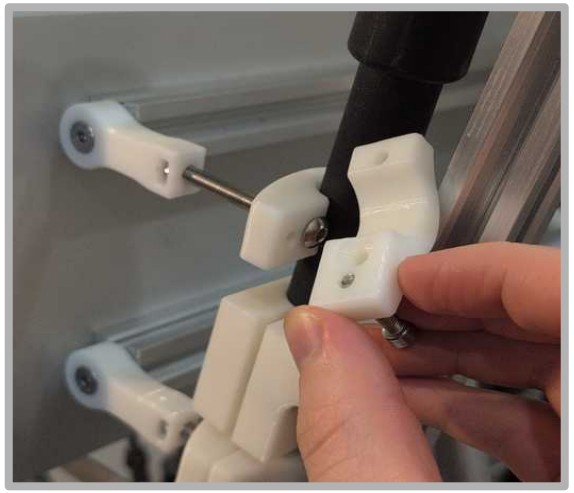


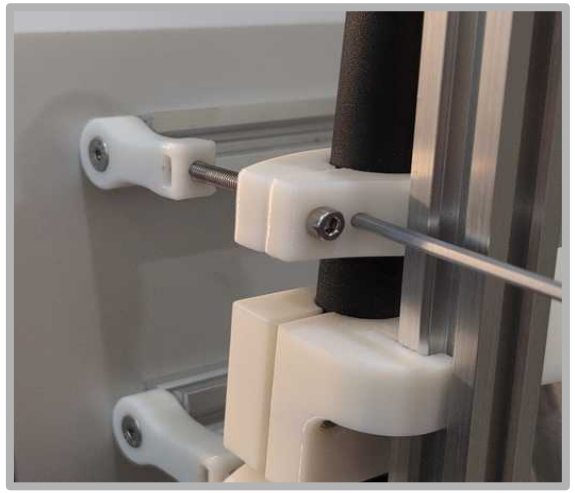
To attach the pedal mount to the PSC pedal tray, remove the tube clamps from the aluminium profile. The profile pieces can then be placed on top of the pedal tray tubing and the clamps reattached.

Secure the pedals in place to stop the structure from sliding around, but the exact positioning of the pedals will be adjusted when setting your seating position.

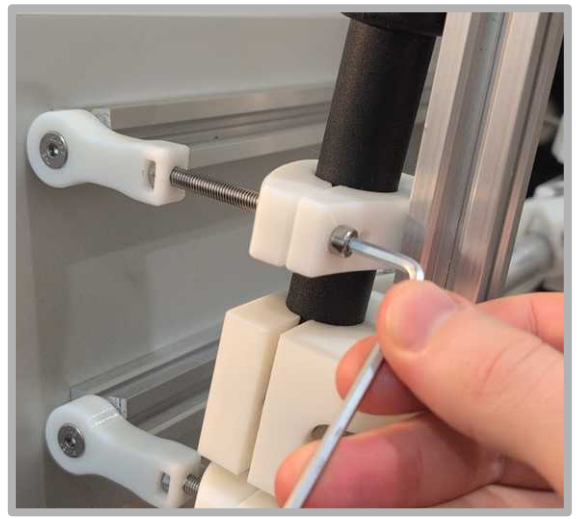
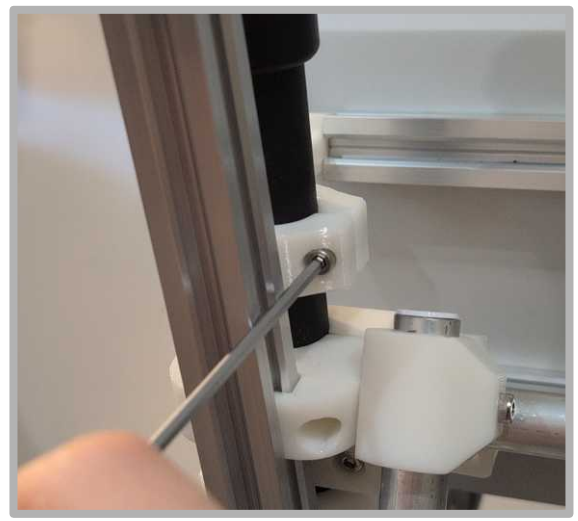
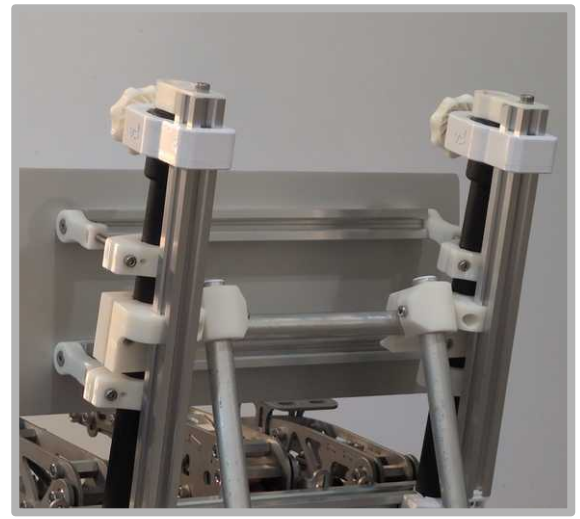
Heel Rest Assembly

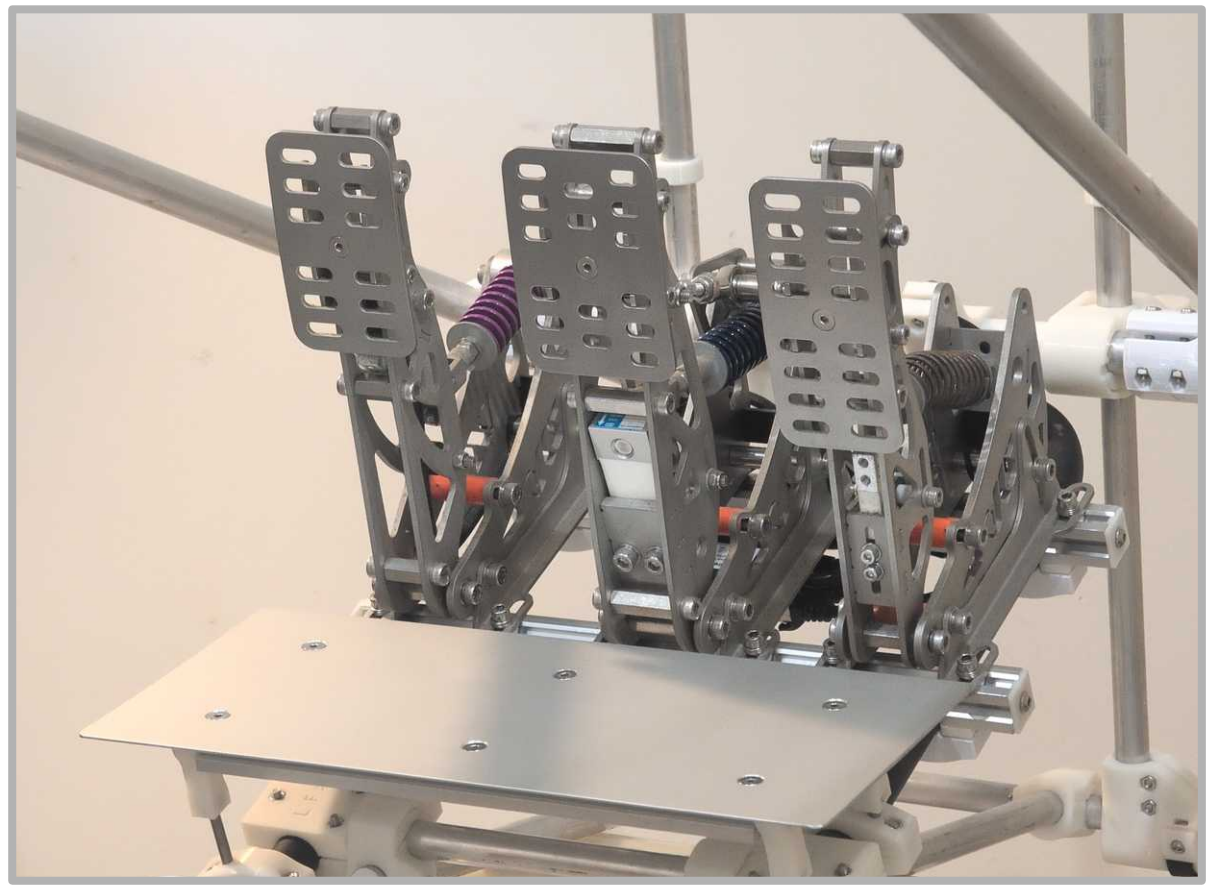
To attach the heel rest, reposition the corner struts to be straight up/down and remove the bottom side clamp. The heel rest can now be positioned on the PSC pedal tray and the clamp loosely reattached.





The height of the heel rest is adjusted rotating the screwing/unscrewing the connecting bolt. A small opening in the bottom clamp piece allows a hex key to fit through and adjust as needed, but won't move if the clamp has been tightened.

Once the position of the heel rest has been set, the clamp can be tightened in place. This particular part requires the clamp bolt on the outside of the pedal tray to be tightened first, then the inside bolt. Finish by tightening the bolt connected to the aluminium profile.

If using the full Lock-Mod kit, refer to the manual **here** concerning the positioning of pedals. Once you have got the seating position set up as you like the pedal assembly can be tightened to spec.