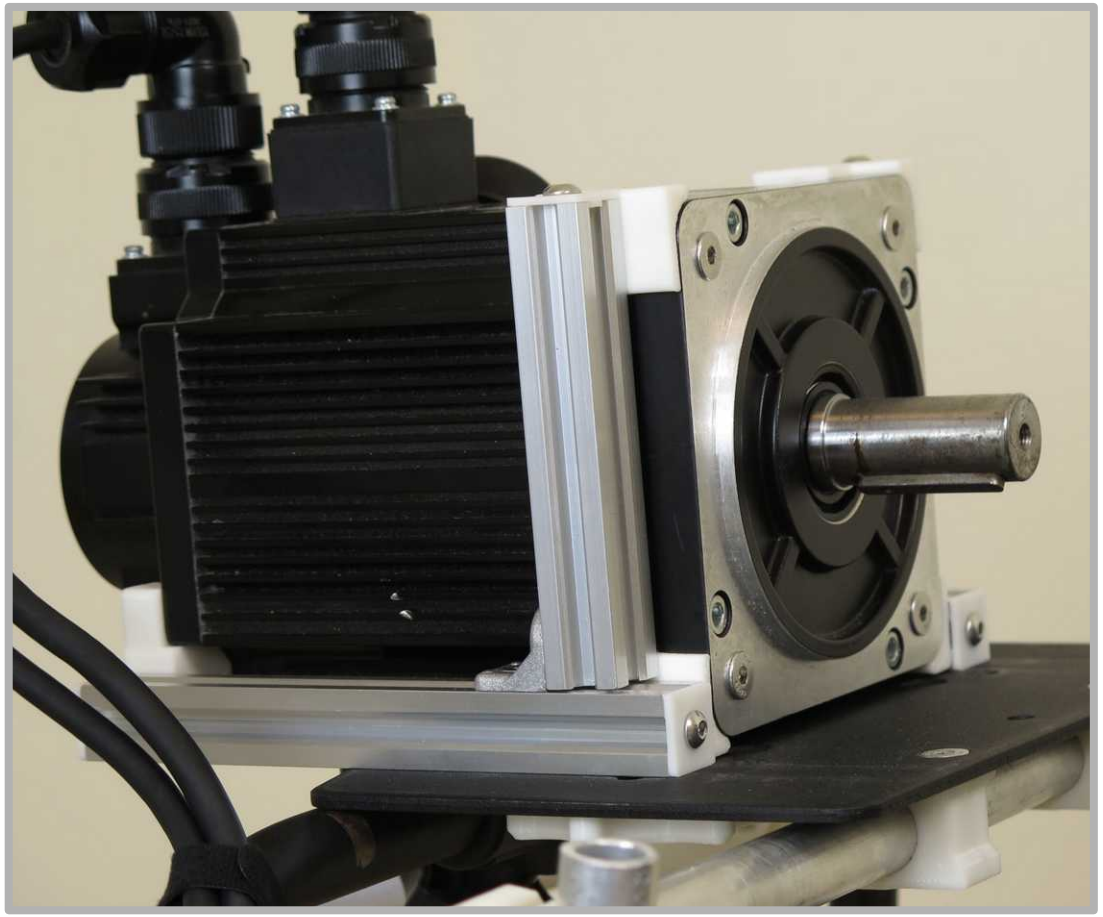
PLAYSEAT CHALLENGE LOCK-MOD

VRS DFP MOUNT



Assembly Manual

About

This is the assembly guide for the Lock-Mod: VRS DFP Mount. This allows convenient, rigid mounting of the VRS Direct Force Pro wheelbase to the Playseat Challenge and Playseat Challenge X wheelbase plate.

The quick release thumbscrews also allow quick changes to the positioning of the wheelbase, meaning different wheel types and sizes can easily be adjusted for without tools.

Note:
This Lock-Mod accessory is compatible with both the original Playseat Challenge and the Playseat Challenge X (Logitech edition).

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Tools

To assemble the *Lock-Mod: VRS DFP Mount*, you'll need a pair of **M4 and M5 hex keys**. The full Lock-Mod kit comes with a torque wrench that includes a **M4 hex key**, but you'll need your own **M5 hex key** to remove 2 bolts from the VRS DFP wheelbase.

It is recommended to use a torque wrench when assembling your kit to avoid over-torquing the fasteners, which can cause parts to fail. The Lock-Mod torque wrench can be ordered as an optional extra if needed, but any torque wrench with a range including **1.5nm** will work. 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.

Notes on Threadlocker

The VRS DFP Mount will be subjected to strong vibrations from the force feedback, and over time these vibrations can cause the bolts to become loose. This generally happens quite slowly and re-tightening the affected bolts will only take a minute, but applying threadlocker adhesive to the bolt threads can prevent this from happening. If choosing to use threadlocker, great care needs to be taken when using the liquid on the wheelbase mount bolts.

If threadlocker adhesive comes into contact with PLA it will cause the plastic to degrade, possibly forming into small cracks over time. To prevent this happening the threadlocker should be applied to the nut/bolt in such a way that prevents contact with the PLA parts.

For example, if applying threadlocker to the tip of the bolt it should already be fully inserted through the part, and cannot be backed out again (until cleaned or dried). Or, if applying to the internal thread of a nut or within the VRS wheelbase, limit the quantity of liquid applied to minimise spillage.

Due to the risk of using threadlocker around the PLA plastic parts, it is recommended to periodically check the tightness of the bolts instead. Premature degradation of the plastic parts from exposure to threadlocker will **not** be covered by the warranty.

Care Instructions & Warranty

Care Instructions

- The PLA plastic that mount directly to the VRS DFP wheelbase have been annealed and are designed to handle temperatures up to 85° C, but the rest of the parts should not be exposed to heat of above 53° C or 127 to avoid warping.

Warranty

This mounting system 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.
- Wheelbase is run with standard parameters (up to it's maximum rating of 20nm).

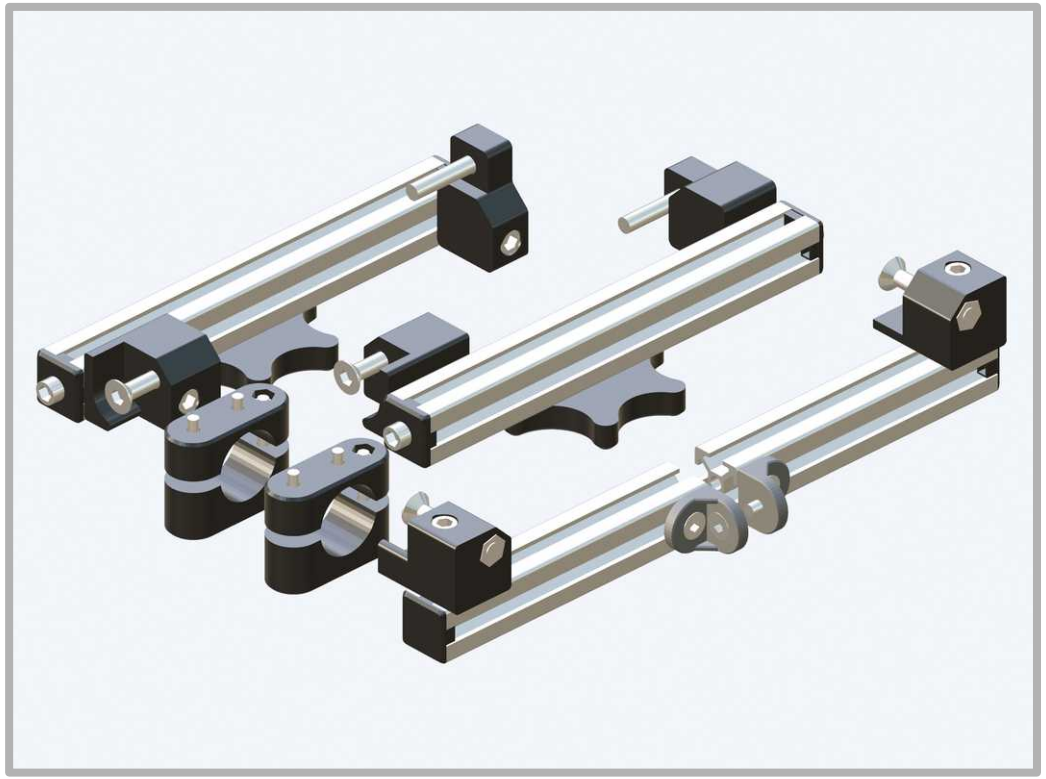
If these points are not adhered to the longevity of the Lock-Mod cannot be guaranteed.

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

https://psyskip.com/about/

Kit Contents

The Lock-Mod: VRS DFP Mount includes the mounting hardware for the wheelbase and a pair of brackets to mount the control box to the PSC frame.

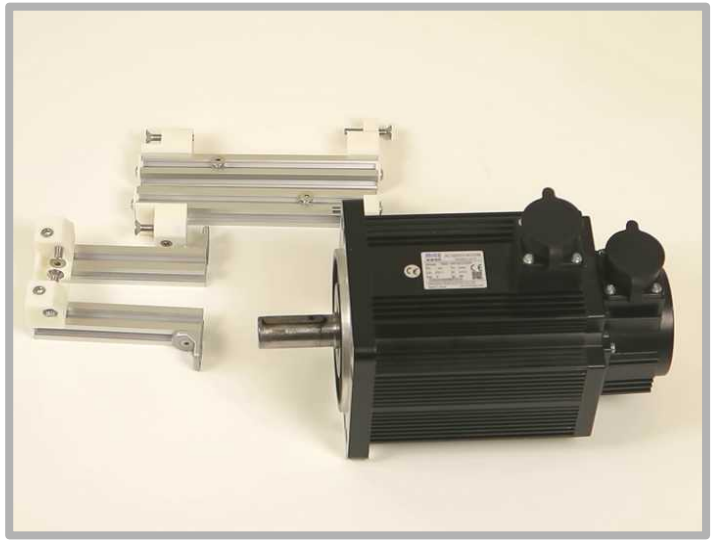


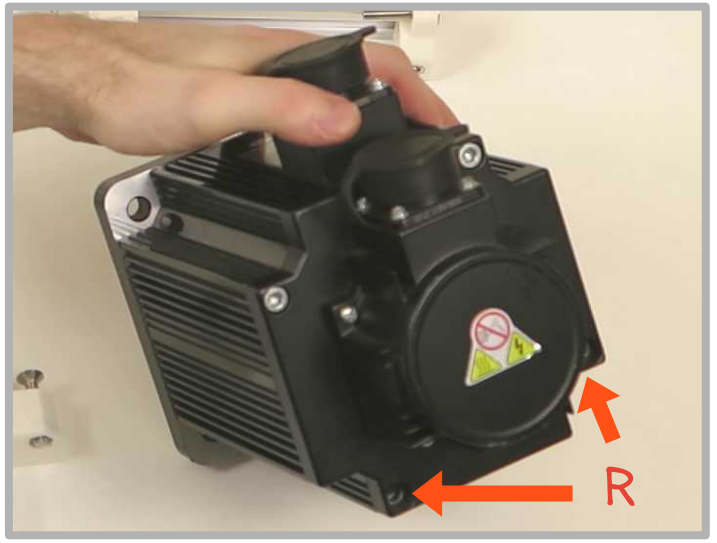
1. Wheelbase mount & frame bracket

Assembly Instructions

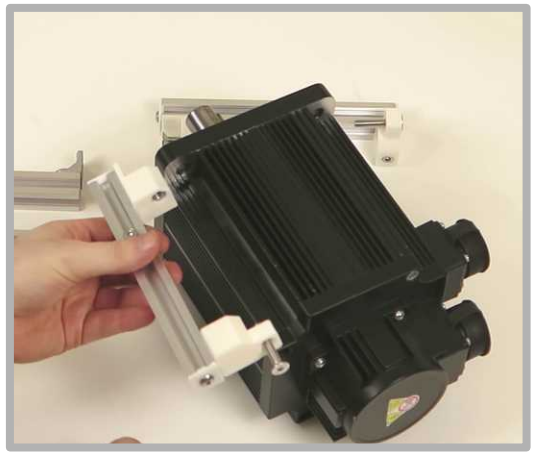
Wheelbase Mount

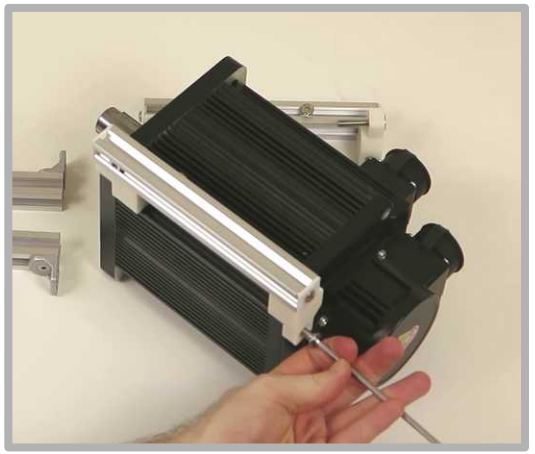
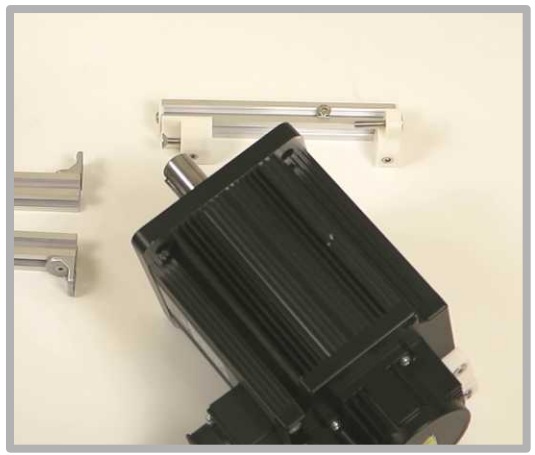
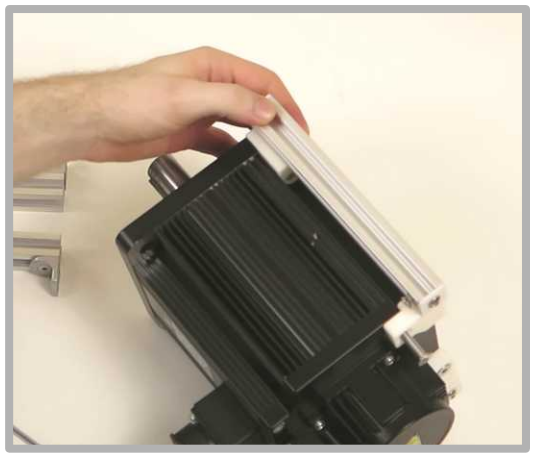
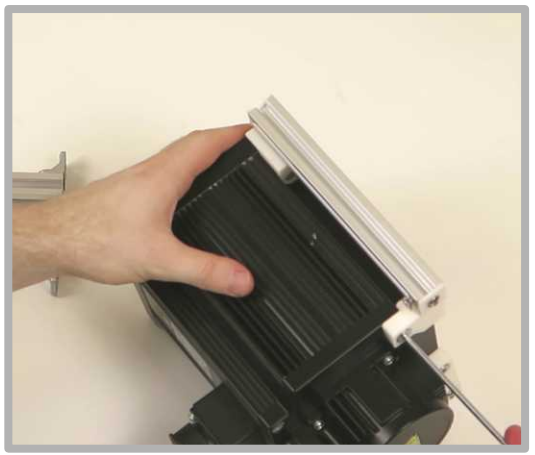
Before attaching the mounting frame to the VRS wheelbase, two M6 bolts on the bottom rear of the unit (marked **R** in the image below) need to be removed. These will be replaced with bolts that attach the mounting frame to the wheelbase.



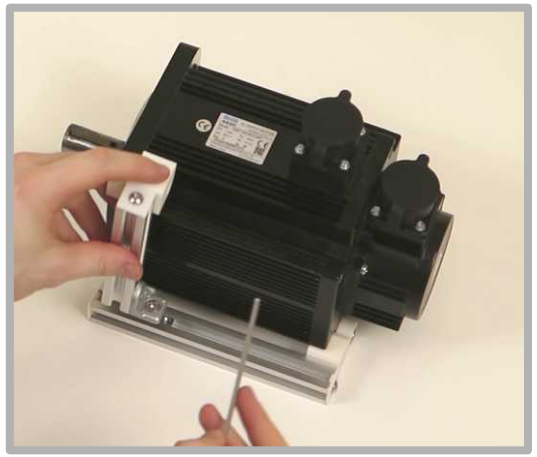


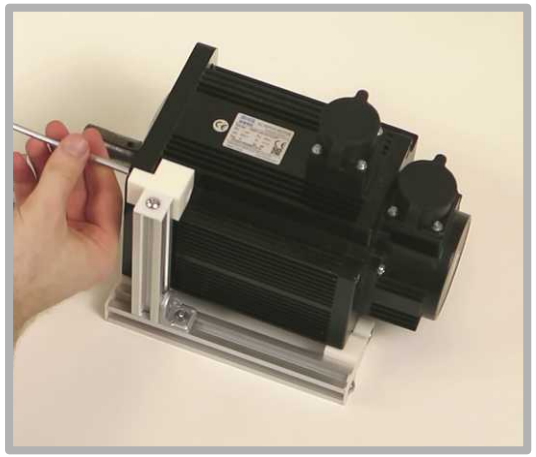
Start by attaching the bottom aluminium profile pieces. Noting the orientation markings on each rail, line up the profile and loosely fasten the bolts in place. Final torquing of the bolts will be done later.



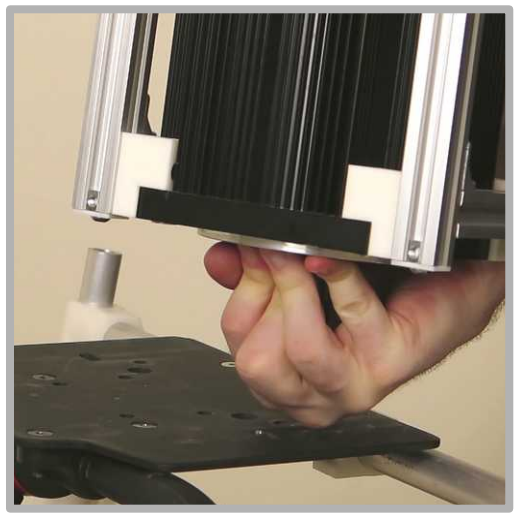





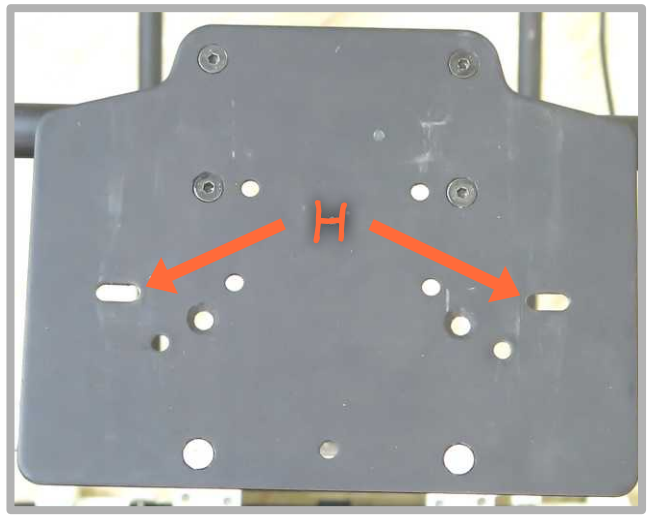
Attach the vertical profile at the top with the counter-sunk bolt and at the bottom with the aluminium bracket. As before, only semi tighten the bolts for now.





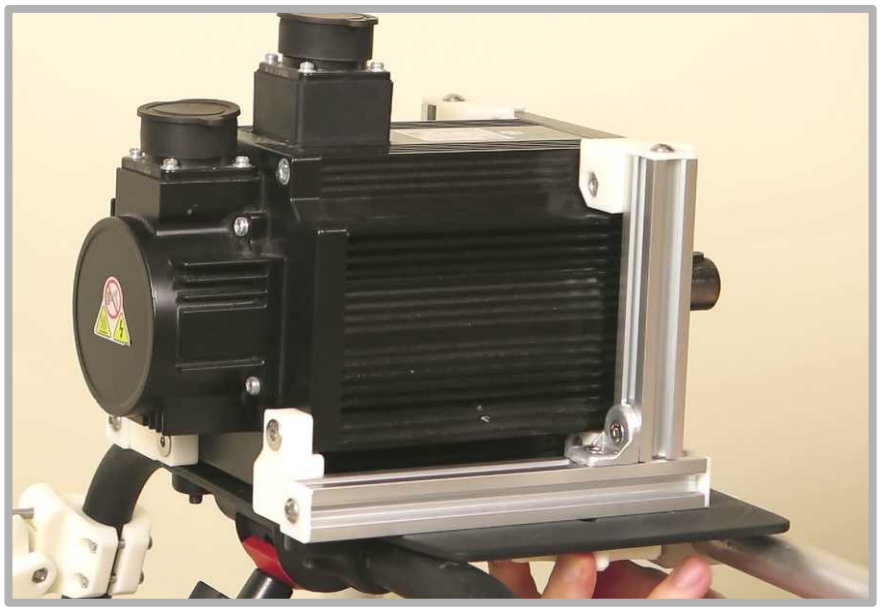
The wheelbase plate of the Playseat Challenge needs to be level while attaching the wheelbase mount, and the thumbscrew T-nuts slid to the front of the wheelbase.

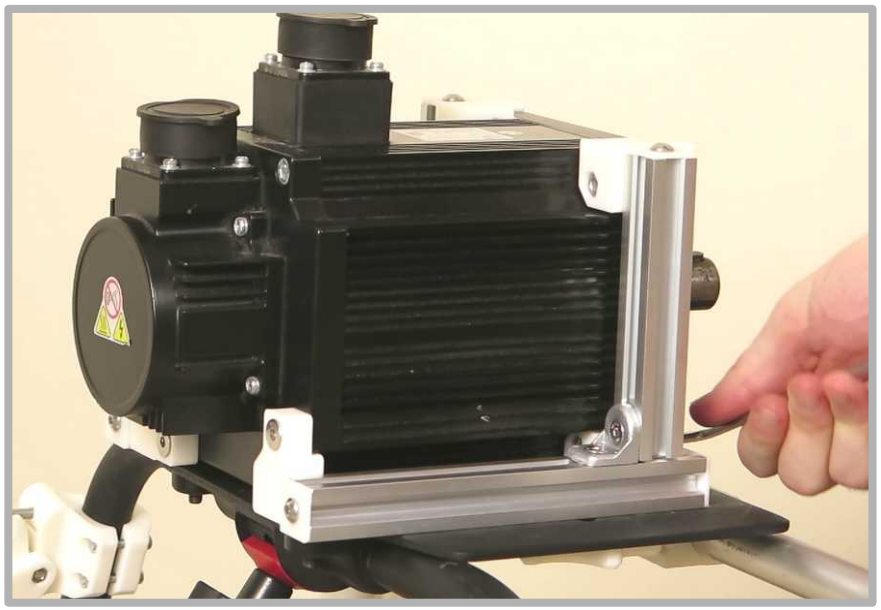




Place the wheelbase on top of the plate. The mounting slots shown above as H will be used to mount he wheelbase. Carefully line up the T-nuts with these slots and thread in the thumbscrews. Doing this while lying underneath the Playseat Challenge makes finding the T-nut thread a bit easier.

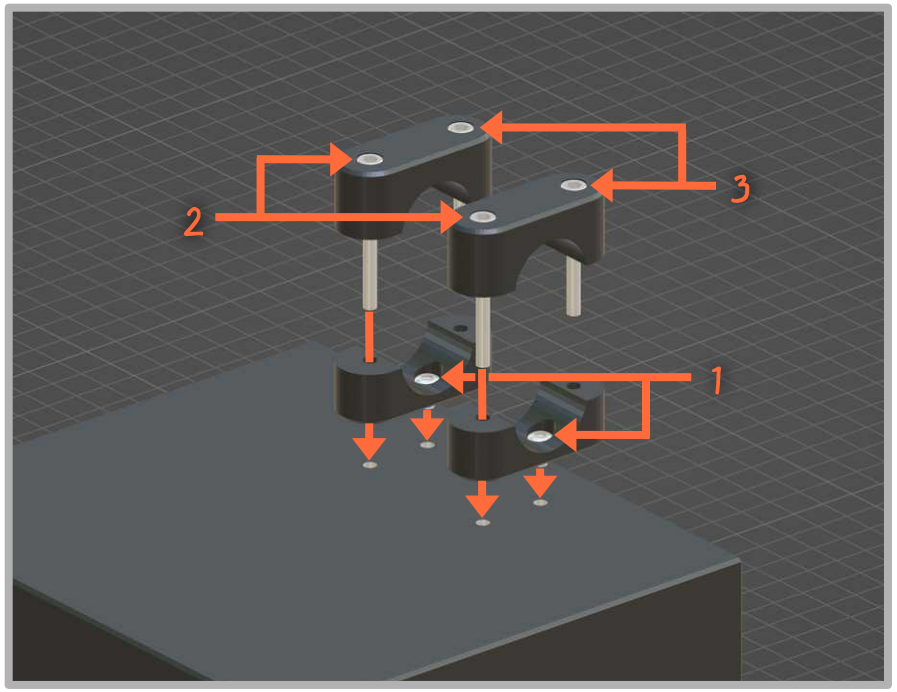
With both thumbscrews threaded in, slide the wheelbase to the centre of the plate and fully tighten the thumbscrews down. Doing this aligns the bottom profile with the plate, after which all bolts of the mounting frame can be fully tightened.

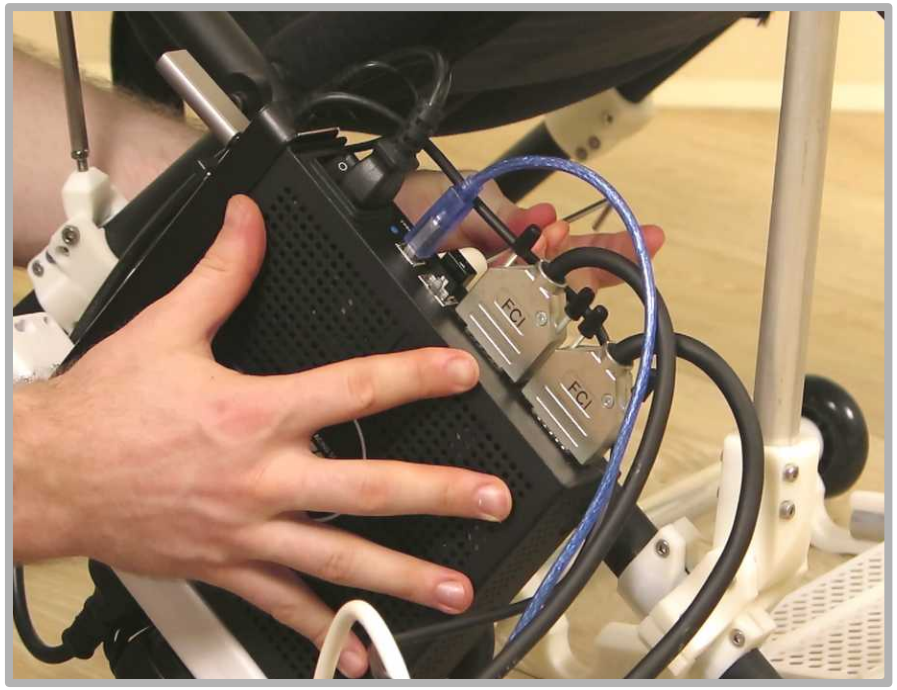




Control Box

To attach the DFP control box to the PSC frame, first split the control box clamps into halves. The halves with the small embedded button head screw (1) can then be fastened to the frame, tightened to torque spec. Ensure that the thread of the control box lines up with the bolt holes of the long through bolts (2). Press the control box against the frame tubing, reattach the other half of the clamps and fasten in place. Ensure that the long bolt (2) and the short bolt (3) don't get swapped around.





The optimal position of the control box will depend on what gear is already on the Playseat Challenge rig. Here it is placed on the outside of front leg to make room for other Lock-Mod components, but it can also be placed on the inside of the rear legs. Check folding clearances once the control box is mounted, keeping in mind the additional room needed for cables. For information about cable routing, see the full Lock-Mod manual **here.**