

Modular Flight Simulator Pit

DCS Edition

Assembly Manual



Assembly instruction manuals available at:

V4.4 071426

<http://bit.ly/ow-manuals>

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WARNINGS:



Proceed with caution and extra attention when warning signs are present during installation instructions manual.



WARNING

Choking hazard, small parts. Not for children under 5 years old.



WARNING

Keep hands and fingers clear of pinching points, and hinging metal parts.



SimFab modular cockpit "DCS edition" package consists of several individually packed modules (configurations). Install each in the following order and refer to their dedicated assembly manuals where applicable.

1. Install seat lift kit (located within seat frame on bottom of the box) between seat frame and seat base sliding rails.



Follow instructions in Seat lift kit manual booklet.

* Install optional seat arm rest kit along with seat lift kit.

2. Install seat backrest to seat base.  Do not use seat before it is fully assembled and has weight in front, or rear extensions installed to the back, preventing seat from tipping over.

3. Install optional seat frame rear extensions. Refer to module dedicated manual booklet.

4. Install flight sim configuration #4, rudder pedal plate. Refer to module dedicated manual booklet.

5. Install flight sim configuration #6, centered stick lower mount bracket. Refer to flight sim #6 assembly booklet.

6. Install flight sim configuration #2 side brackets, plates and controls. Refer to flight sim #2 assembly booklet.

7. Install all rest optional configurations or add-on accessories available for purchase at www.SimFab.com or www.Amazon.com

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Parts list

Seat and frame kit assembly

5. Additional seat frame quick release knob
3. Seat frame (with pre-installed mounting hardware)
4. Seat lift kit
5. "Easy Roll" wheel set
6. Velcro ties (cable management) (6)
7. Quick release knob (attach to seat frame)
8. Wrench Set: Open Wrenches: 17mm, 13mm, 10mm, 7mm
Allen Keys: 8mm, 5mm

Keep all wrenches in black pouch for future use on all rest OpenWheeler and SimFab products, and add-on accessories.

Stick and throttle side by side mount, HOTAS style assembly, parts list and hardware.

⚠ Refer to configuration #2 manual booklet.

Rudder plate assembly, parts list and hardware.

⚠ Refer to configuration #4 manual booklet.

Centered stick mount bracket assembly, parts list and hardware.

⚠ Refer to configuration #6 manual booklet.



Seat and frame assembly



Seat and Seat frame installation

1. Install seat lift kit between seat frame and seat base.

⚠ Refer to seat lift kit installation manual.

Attach felt pads to each corner of seat base frame. Align each pad with welded nuts, towards the end of frame tube as shown.



2. Seat Assembly

- Remove pre-screwed pair of bolts on left side of the backrest and bolt on right side of the seat.

⚠ Seat base is designed with removable center foam insert for center mounted stick or cyclic use.



- Align backrest with seat reclining arm on the left side. Hand tight single hinge bolt on right side **first**, then two bolts on the left side.



- Tighten down all 3 bolts with supplied wrenches: small Allen (Hex) key for the pair bolts on the left; Large combo wrench for the bolt on right side.



3. "Easy Roll" wheel set installation. Insert wheel tube into rear side of seat frame until it bottoms out. Secure tubes with pair of bolts pre-installed to seat frame.



- To move the cockpit around or out of the way, lift front of chassis by the lower support bracket until "Easy Roll" wheels touch the floor.



4. Seat Lift Kit.

⚠ Refer to assembly manual booklet,
a.k.a "SEAT LIFT KIT V9.1 022526 no accessories".

5. Rudder plate assembly.

⚠ Refer to rudder pedal plate assembly manual booklet,
a.k.a "Configuration #4".

6. Side by side mount bracket for stick and throttle.

⚠ Refer to stick and throttle assembly manual booklet,
a.k.a "Configuration #2"

7. Centered stick mount bracket.

⚠ Refer to centered stick mount bracket assembly manual booklet,
a.k.a "Configuration #6"

Specifications:

Recliner: max: 170 degrees

Construction: tubular steel frame with elastic strap supports

Seat Materials: high-density cold cure foam filling; Fabric, Steel chassis

Instructions during use and care:

Move simulator around with caution to avoid collision.

Keep out of direct sunlight and outdoor use.

Watch fingers when adjusting recliner.

Placing heavy or sharp objects on the seat may damage the surface material.

Do not use abrasive or chemically aggressive materials on the seat.

Use dry cloth or soft brush to clean the chair.

Dimensions:



Warranty Information

Return Policy

Terms And Conditions

<http://homeracer.com/ow-termsandconditions.html>



- * Seat Frame Installation
- * Seat Lift Kit (Spacers) installation
- * Seat assembly



Assembly instruction manuals available at:

V1 DCS 081623

<http://bit.ly/ow-manuals>

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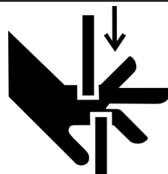
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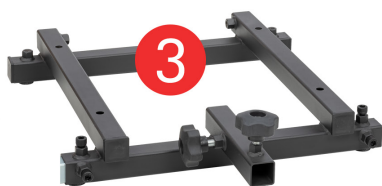
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Parts List

1. Seat with removable foam insert
 2. Floor felt pads
 3. Seat frame
 4. Seat lift kit with seat frame hardware
 - 4.1. Seat rails side bolts (pre-mounted to seat risers) (4)
 - 4.2. Frame side bolts (4)
 - 4.3. Frame side washers (4)
 7. Wrenches (included in parts kit box, inside tool pouch)
-  Refer to kit box with parts and assembly manuals for each add-on kit



Seat Lift Kit (Spacers) Installation

Parts and tools included in the kit:

- 4x seat frame spacers (2x short/rear and 2x long/front)
- 4x spacer bolts (pre-installed)
- 4x seat frame hardware (bolts and washers)



Fig. 9

- Note:** Spacers are cut at angle to provide 5 degrees seat tilt. Therefore, each pair spacers have specific front/rear side and top/bottom direction to seat/frame. Refer to labels on each spacer.

1. Remove pre-screwed bolts (shorter bolts) from spacers and use them to mount spacers to the rails.
2. Slide seat rails all the way to forward position.



Fig. 10

3. Install longer spacers to front rails by holding the spacer bolts with one hand and screw on the spacer to the bolt with the other hand.

* Leave spacers loose on the bolts in order to align them with the frame at later step.



Fig. 11



Fig. 12

- Front spacers should point out with stickers forward as shown.



Fig. 13

4. Slide the rails all the way to rear position and install the rear spacers same way as front ones.

- Rear spacers are shorter than front and stickers should point backwards as shown.

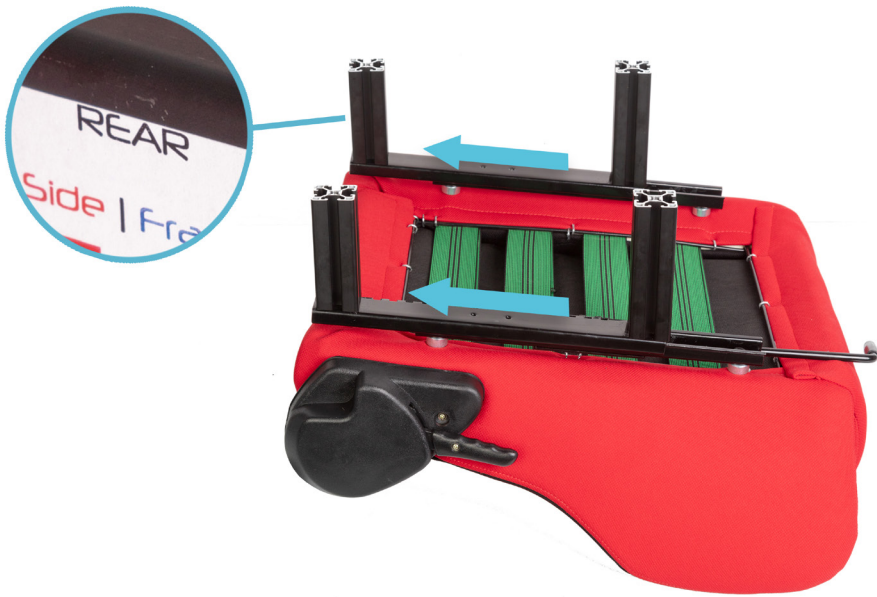


Fig. 14

5. Place seat frame on top of the spacers and align the frame holes to match with spacers holes.

6. Mount seat frame with original (longer) bolts and washers to the spacers by hand.

* Leave bolts loose in order to align them with the frame, after all four are bolted on.



Fig.15



Fig.16

7. Align spacers at correct direction, square with frame.

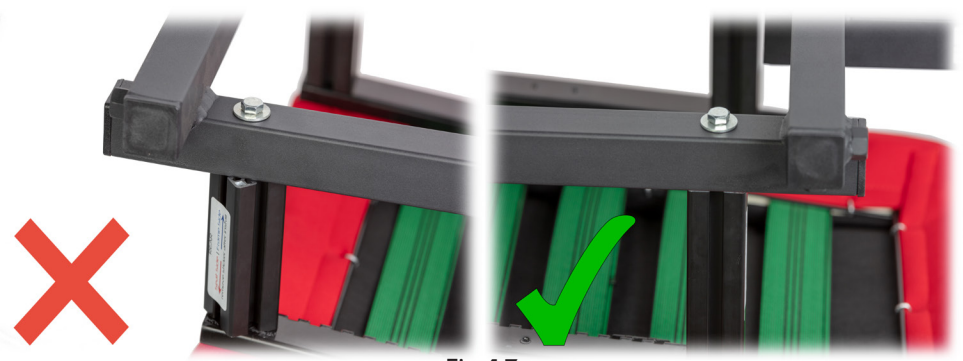


Fig.17

8. While holding each spacer straight with the frame, tighten up the frame bolts with the 13-flat wrench.



Fig.18

9. Use the close end of 13-flat wrench to tighten spacers bolts. First rear ones. Slide rails all the way forward and tighten front ones.



Fig.19



Fig.20

10. If manual gear shifter is used on side of the cockpit: flip lower "L" bracket with longer arm pointing up and shorter arm going into the seat frame. Adjust upper L bracket accordingly to level the shifter with the raised racing seat.

11. Flip racing seat with side up, make final adjustments and tighten up all knobs and bolts.



Fig.21



Fig.22

Seat installation

Attach felt pads to each corner of seat base frame. Align each pad with welded nuts, towards the end of frame tube as shown.



Fig.1

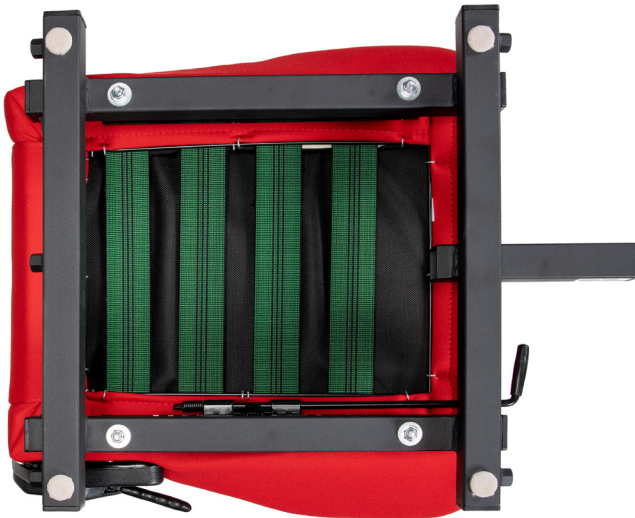


Fig.2

2. Seat Assembly

- Remove pre-screwed pair of bolts on left side of the backrest and bolt on right side of the seat.

⚠ Seat base is designed with removable center foam insert for center mounted stick or cyclic use.



Fig.3

Following the correct assembly sequence is critical for proper installation of the seat backrest.

- Align the backrest with the reclining arm on the left side. Install and hand-tighten the hinge bolt on the right side first.
- Align one threaded insert on the left side and hand-tighten the bolt.
- Align the second threaded insert and hand-tighten the bolt.
- Tighten all three bolts using the included tools.

RIGHT SIDE

LEFT SIDE



Fig.5

3. "Easy Roll" wheel set or seat frame rear support kit. Insert wheel tube into rear side of seat frame until it bottoms out. Secure tubes with pair of bolts pre-installed to seat frame.



Fig.24

- To move the cockpit around or out of the way, lift front of chassis by the lower support bracket until "Easy Roll" wheels touch the floor.



Fig.25

Flight Simulator Add-on Kit

Configuration #2 Combat Simulation

Side By Side Throttle and Stick, HOTAS

Assembly Manual



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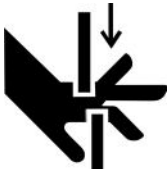


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Parts list

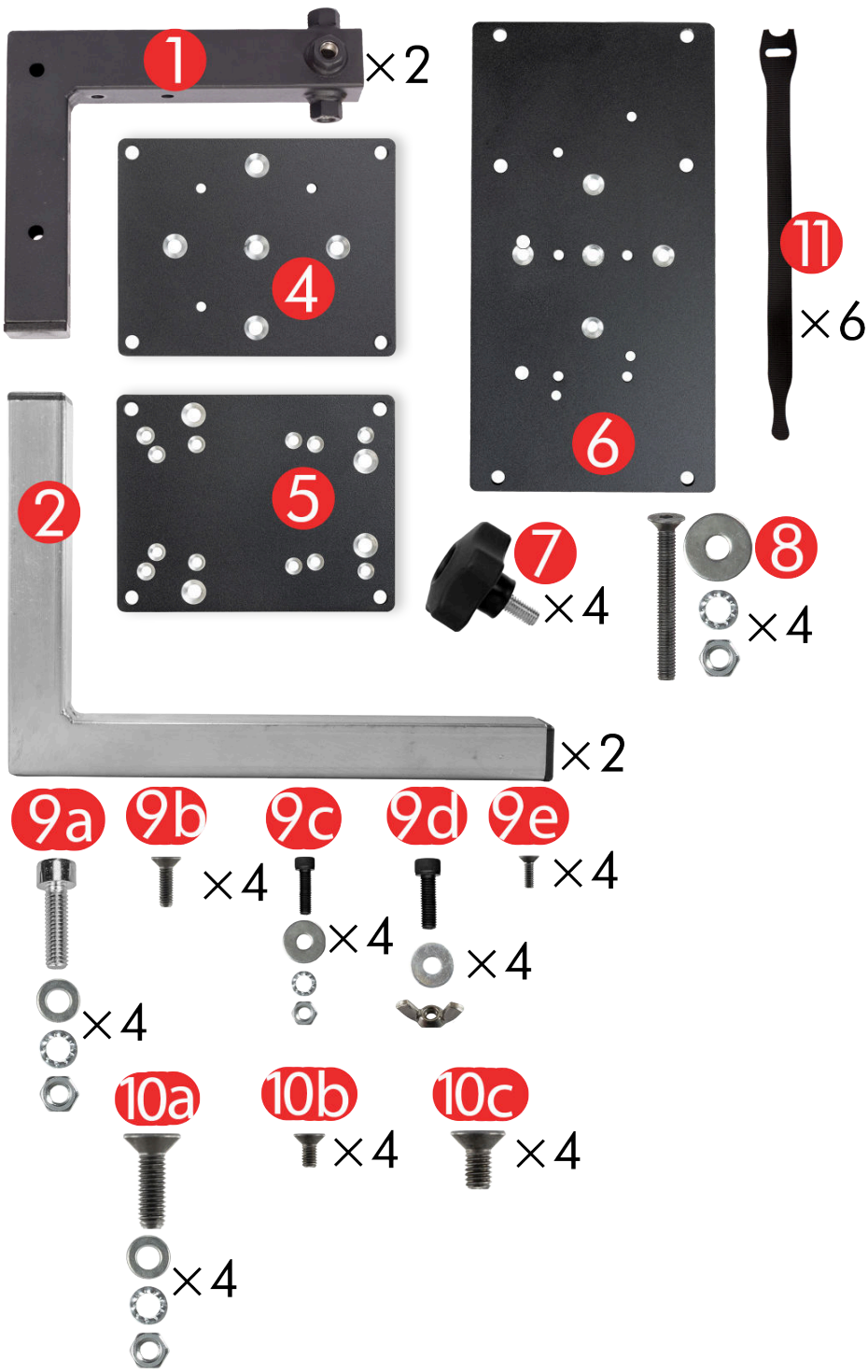
1. Upper L bracket (2)
2. Lower L bracket (2)
3. Lower L bracket mounting hardware (4) pre-installed to frame
4. Flight controls stick lower plate
5. Flight controls stick upper plate
6. Flight controls throttle plate
-  default control base plates **B** and **C** can be substituted with alternative plates upon request.
7. Upper L brackets quick disconnect knobs (4)
8. Stick lower plate and throttle plate to upper L bracket hardware: bolts (4); washers (4); lock washers (4); nuts (4)
9. Throttle control mounting hardware:
 - a) Thrustmaster Warthog, Viper, Winctrl Orion, Moza MTP: bolts (4); washers (4); lock washers (4); nuts (4)
 - b) VirPil throttles and control panels mounting hardware: bolts (4)
 - c) Winctrl Orion2, VKB STECS Mini throttles mounting hardware: bolts (4), lock washers (4) washers (4), nuts (4)
 - d) VKB STECS Mini+, Standard, Max series controls mounting hardware: bolts (4), washers (4), Wing nuts (4)
 - e) Moza MTQ throttle control mounting hardware: bolts (4)
10. Side stick mounting hardware:

Revision Note:

The socket head zinc-plated bolts connecting upper and lower plates, shown in the illustrations have been replaced with black steel countersunk bolts.

Actual hardware supplied may differ slightly from the illustrations but will function as described in the assembly instructions.

- a) stick upper plate to lower plate hardware: bolts (4); washers (4); lock washers (4); nuts (4)
- b) Thrustmaster Warthog, AVA, Winctrl Orion2, VirPil, VKB Gunfighter, Moza AB6 sticks mounting hardware: bolts (4)
- c) Winctrl Super Taurus stick mounting hardware: bolts (4)
11. Velcro ties for cable management (6)



Compatibility

Flight sim add-on kit configuration #2 is compatible with the following brands and models:

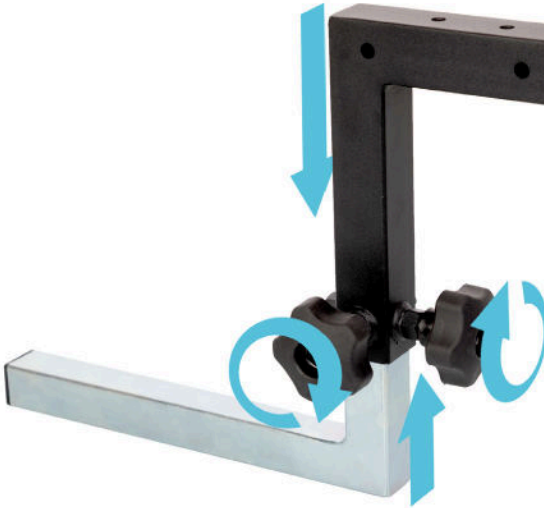
1. Thrustmaster Warthog stick and throttle, Viper TQS throttle
2. VirPil Sticks, throttle and control panels
3. Winctrl sticks and Orion throttle
4. VKB Gunfighter stick
5. VKB STECS/STEM throttle system and all variants.



Installation

Universal side brackets installation

1. Insert lower "L" bracket to upper "L" bracket. Use either long or short arm of lower "L" bracket depending on height position adjustment. Mount pair of handle knobs as shown below.



2. Use flathead screwdriver to wedge out plastic cap from front/side frame tube. Caps may be removed by default.



3. Insert lower “L” bracket to front/side tube of the seat frame. Install pair of bolts into welded nuts of the frame.

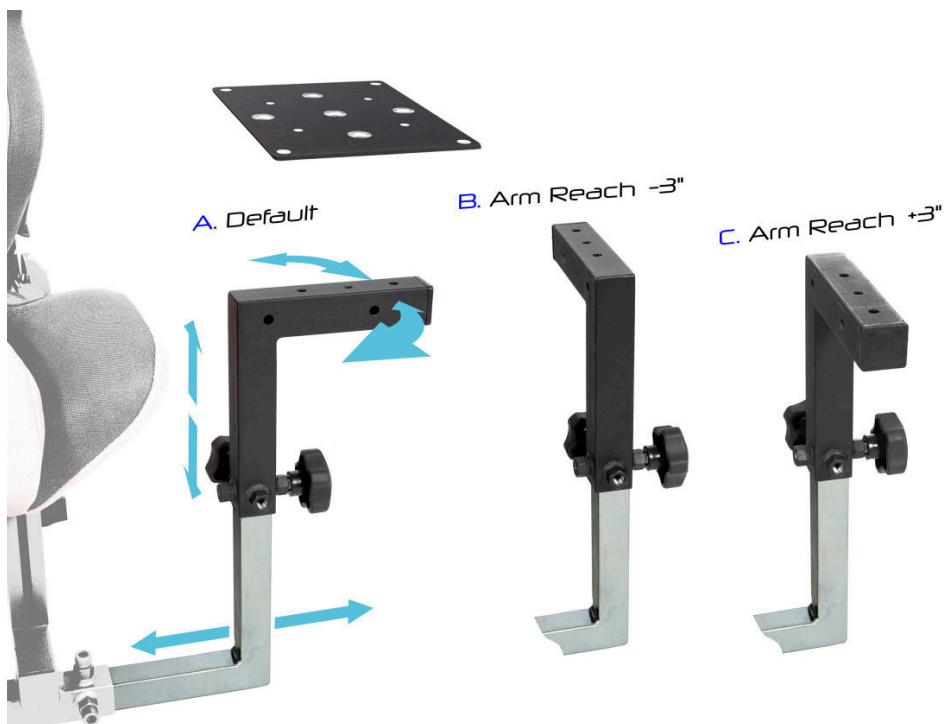
⚠ Depending on setup and preference, switch to either long or short Lower L bracket arm.

Repeat above steps for left hand side bracket set.



⚠ Optional turn upper L bracket pointing forward, turn plates 90 degrees for extra 3” arm reach.





Stick lower plate and throttle plate installation

4. Mount stick lower plate and throttle plate to upper support brackets by using pair of countersink bolts, washers, tooth washers and nuts per plate.



5. Remove Thrustmaster Warthog stick base factory plate and hardware holding it, and replace it with SimFab cover (stick base cover) plate.

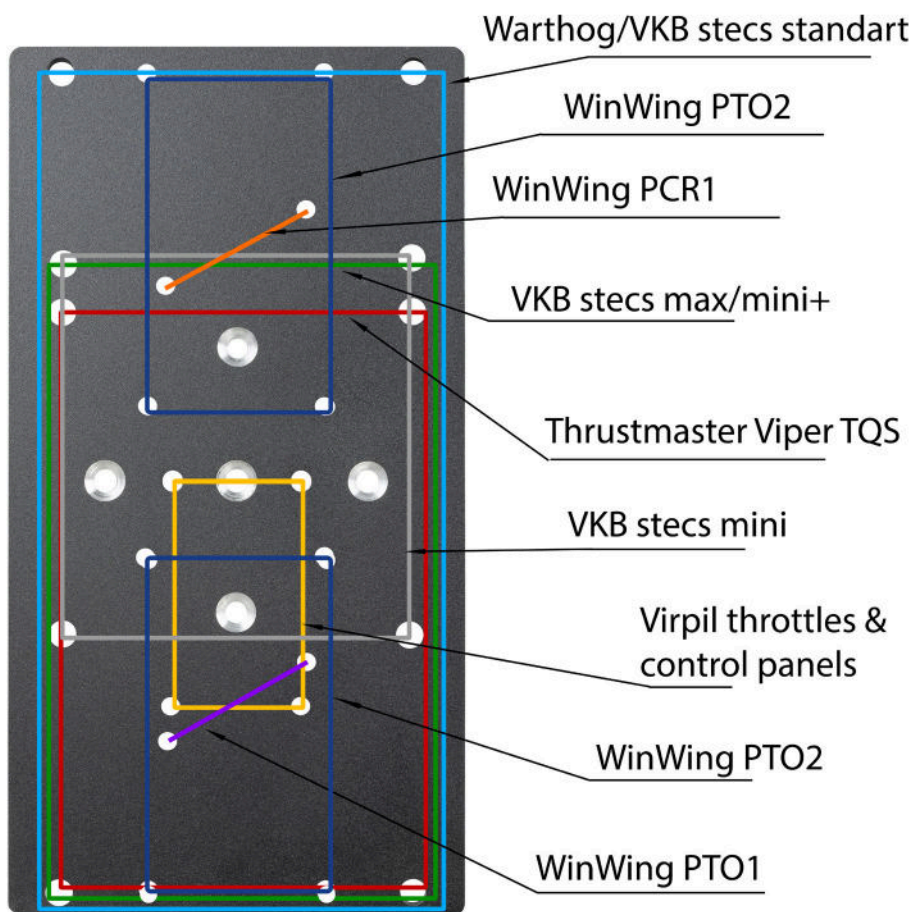
⚠ Winctrl Super Libra does not require base plate removal.

VirPil later generation stick bases only require removal of factory hardware. Install SimFab plate over it, using SimFab selected hardware.

6. Depending on brand and model controls use included mounting hardware to hard mount stick and throttle to each plate.

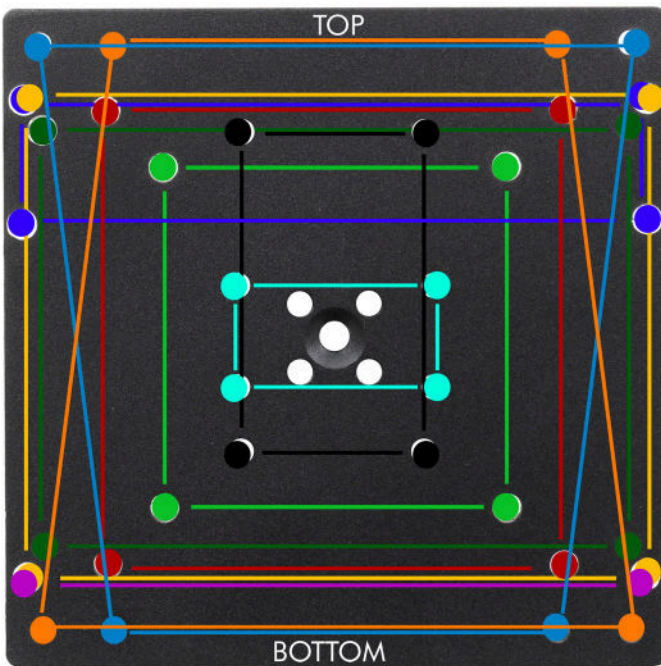
Universal throttle plate, type B

⚠ Included in default DCS cockpit package or flight sim #2 add-on kit



Universal base plate, type D

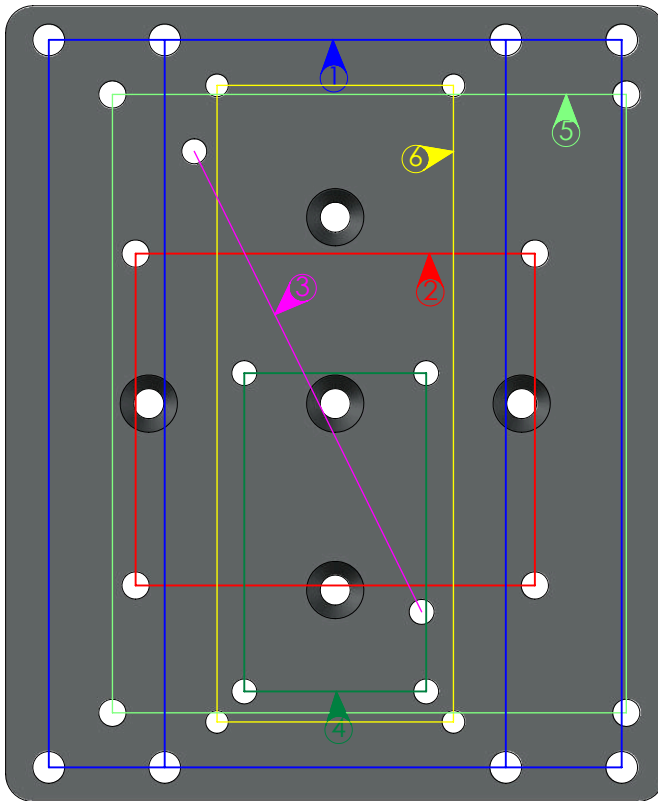
⚠ Optional compact plate does not overlap VirPil controls, allowing closer alignment of multiple panels.



Universal base plate, type J

⚠ Optional base plate J covers following controls:

VKB Gladiator, VirPil CDT series throttles, Winctrl Ursa Minor Controls



1. Virpil
2. VKB EVO
3. Winwing Ursa
4. Virpil - old
5. WINCTRL 32 AGP Metal
6. WINWING 32 ECAM Panel

⚠ Install VirPil control panels or throttles in the following order:

a) Pick appropriate pair of countersunk holes and run bolts (hardware #8) through plate holes.



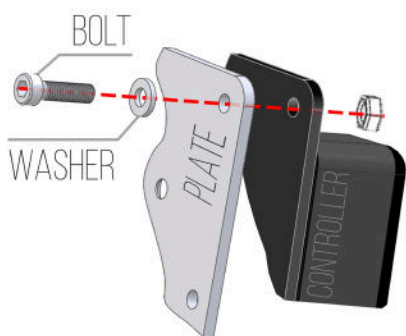
b) Install VirPil control to plate (hardware #9B).



c) Install plate to upper L bracket by aligning bolts to upper L bracket desired pair of holes. Install washers, tooth washers, nuts to bolts (hardware #8).



Controls mount pattern:
Thrustmaster Warthog throttle

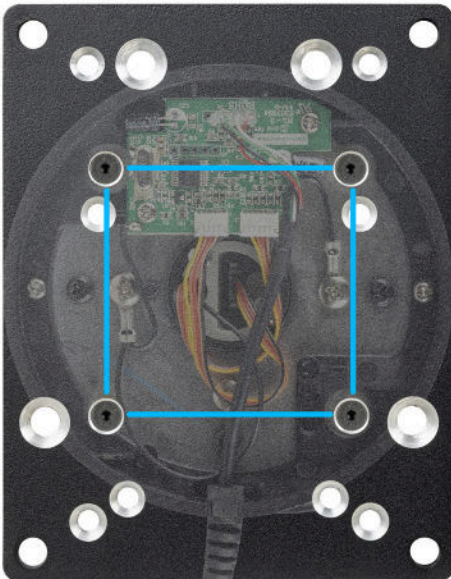
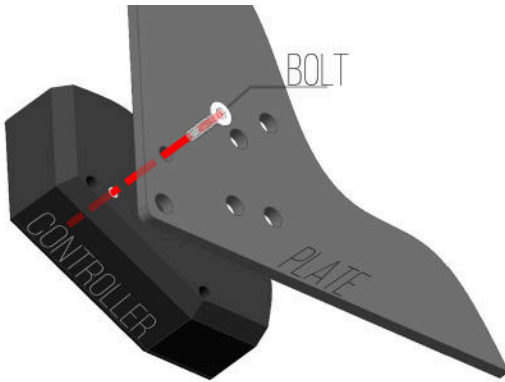


Thrustmaster Viper TQS throttle



Thrustmaster Warthog and Winctrl Orion stick

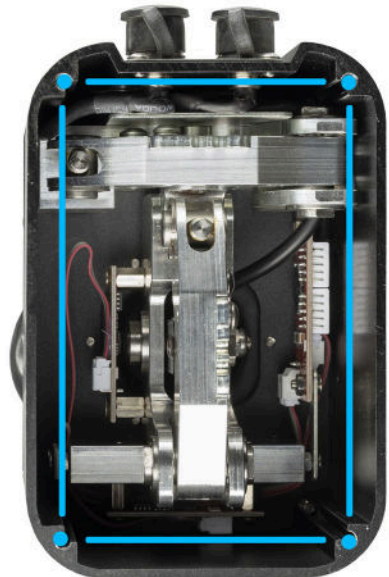
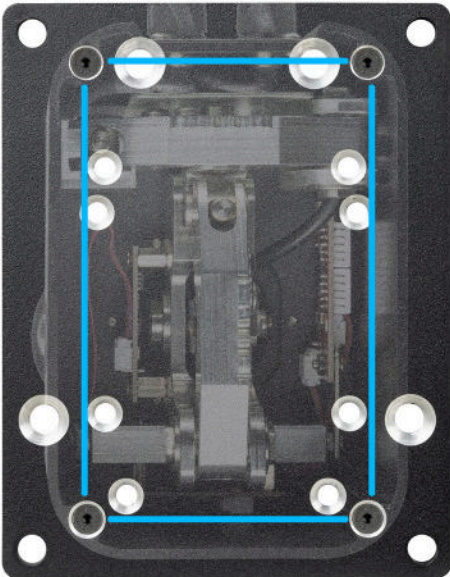
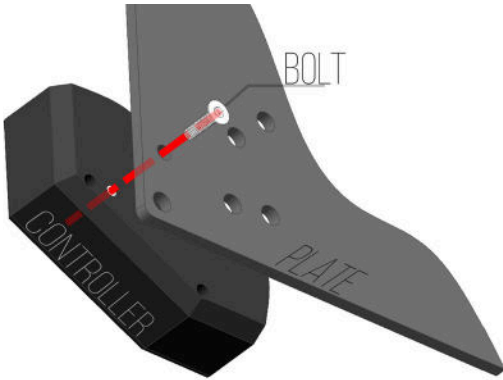
⚠ Thrustmaster Warthog stick shown below, Winctrl Orion stick has same mounting pattern.



VirPil Throttles and Control Panels



VirPil stick



Winctrl Orion Throttle

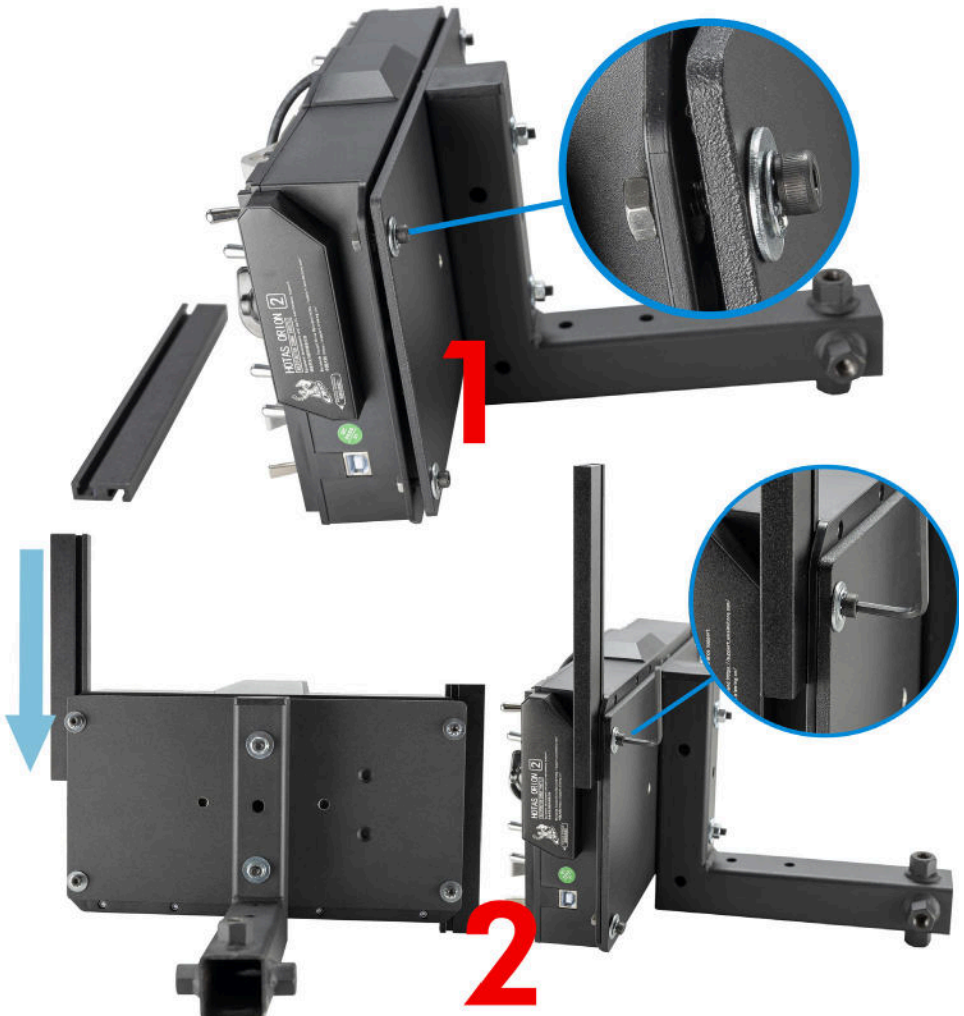
⚠ Use included throttle mount hardware in Bag 9c.

Install hardware through plate and throttle base on each corner hole as shown, with following order. Plate bottom side: bolt head, tooth washer, washer. Throttle top side: nut.

Leave hardware loose. Slide Winctrl mounting rails channel on nuts side.

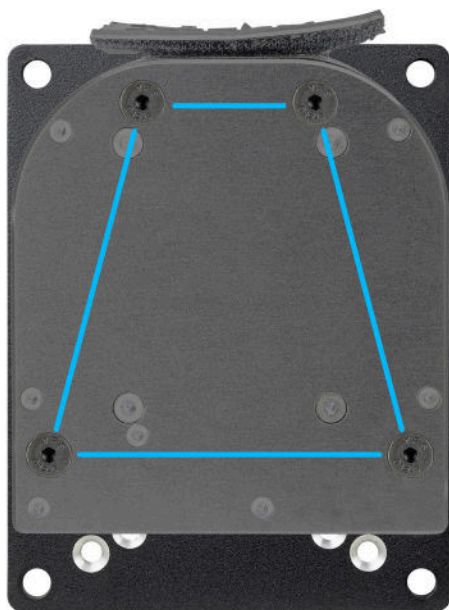
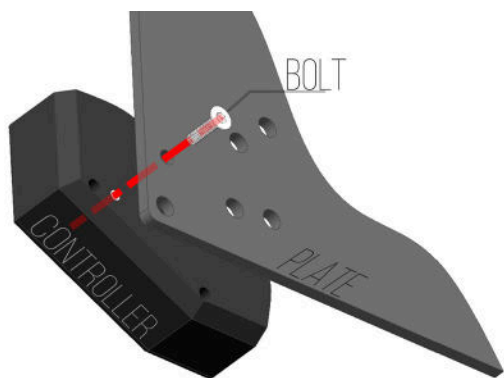
Adjust rails and tighten bolts by using 3mm Allen key.

⚠ Do not over tighten bolts to avoid damage or stripping hardware.



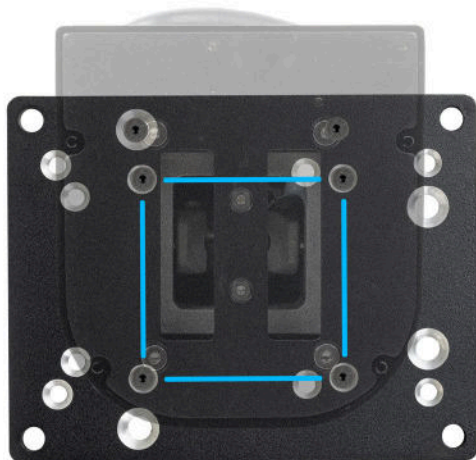
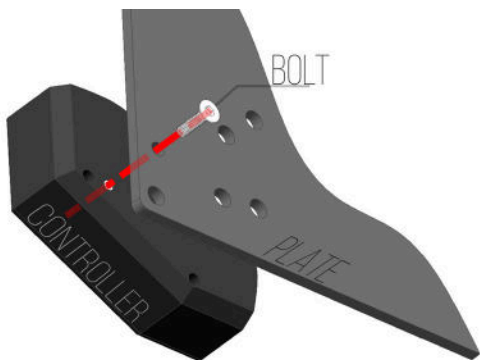
Winctrl Super Libra stick

⚠ Winctrl flight stick does not require factory plate removal.

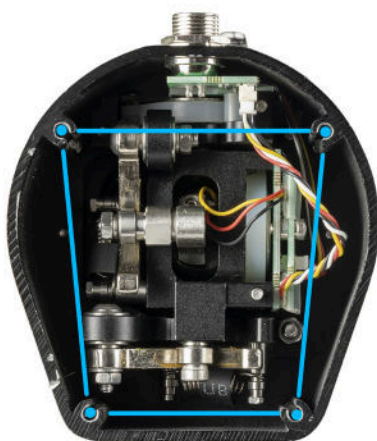
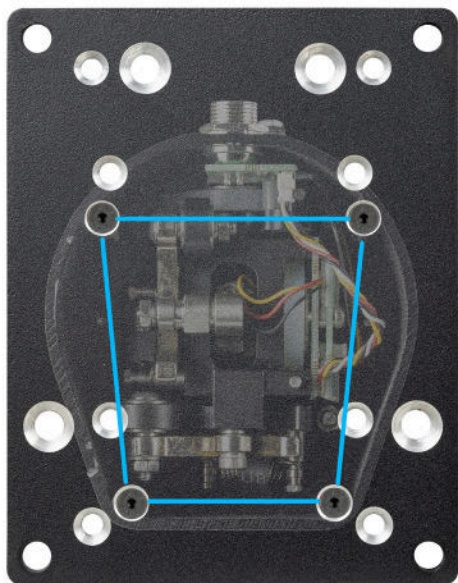
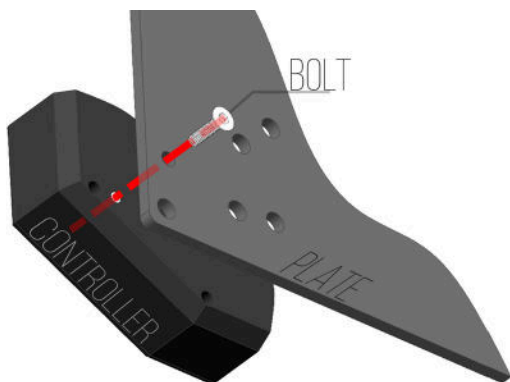


Winctrl Orion Stick bases

⚠ Turn cover (upper) plate at 90 degrees and find matching holes. Use Thrustmaster Warthog and alike bases mounting hardware: M4x12mm countersink bolts.



VKB Gunfighter Stick



Flight Stick upper (base cover) plate to lower plate installation

7. Mount upper to lower stick plate by using included mounting hardware.



Flight Simulator Add-on Kit

Configuration #4

Rudder Pedal Plate Assembly Manual And Optional Accessories



Assembly instruction manuals available at:

v3.3 060726

<http://bit.ly/ow-manuals>

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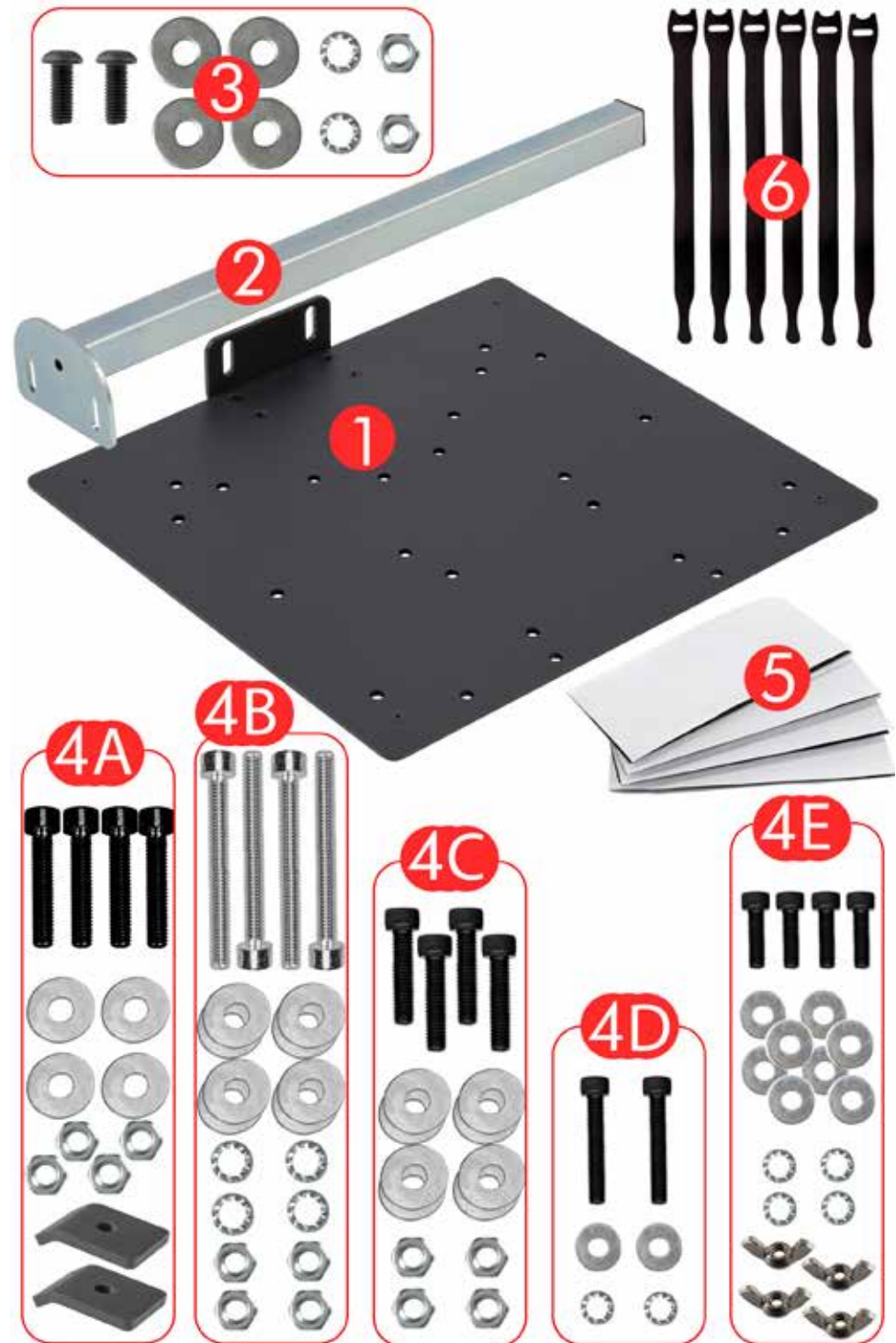


Parts list

1. Rudder pedal plate with mounting bracket.
2. Rudder pedal plate shaft.
3. Rudder pedal plate to shaft mounting hardware.
4. Various controls mounting hardware:
 ⚠ All controls mounting bolts are installed upside down except WinWing pedals (bolt heads on floor side).
 - A. Thrustmaster TFRP, VirPil Torq, WinWing Skywalker
 - B. Logitech (Saitek)
 - C. MFG Crosswind
 - D. VKB T-Rudders Mk.IV
 - E. TPR, VirPil Ace Interceptor/Collection, Slaw Viper, Turtle Beach Velocity One
5. Vecro strips for rudder pedals not equipped with through holes or inserts. (4)
6. Velcro ties for cable management (6)

⚠ Use wrenches included in base package cockpit.

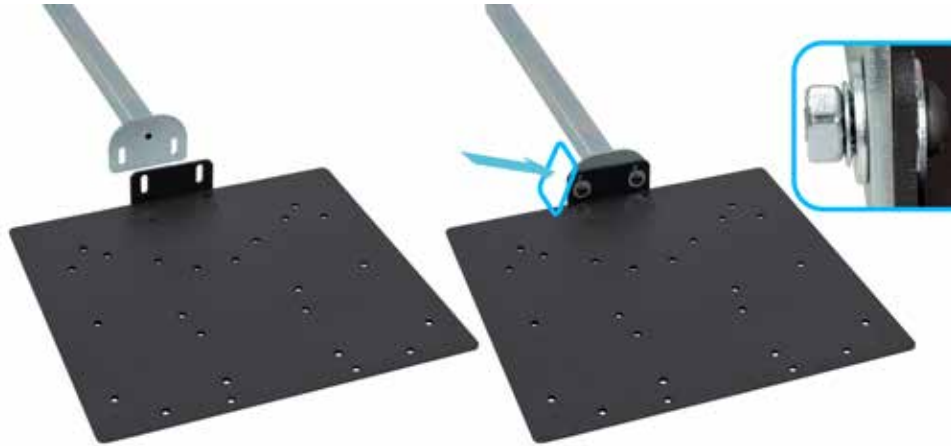
- * 5mm Hex key
- * 10mm combo flat wrench
- * 13mm combo flat wrench



Installation

Pedal plate and shaft assembly

1. Install hardware connecting pedal plate with shaft, leave hardware hand tight.

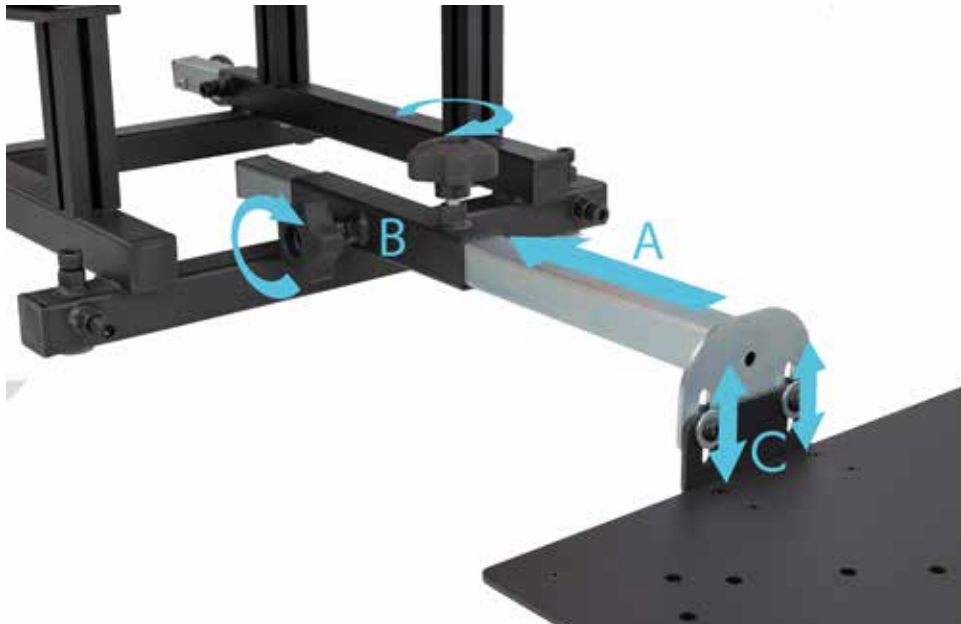


2. Rudder pedal plate assembly to seat frame installation.

A. Slide in shaft to seat frame

B. Tighten quick release knobs

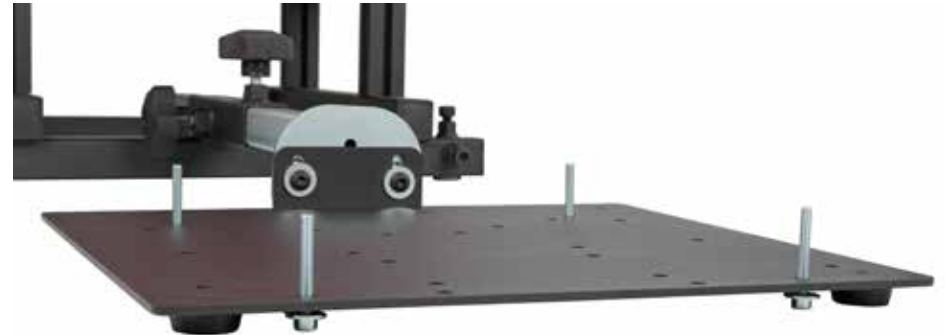
C. Adjust plate to lay flat on floor and tighten plate mounting hardware by using 5mm hex key and 13mm combo wrench.



Rudder pedals installation

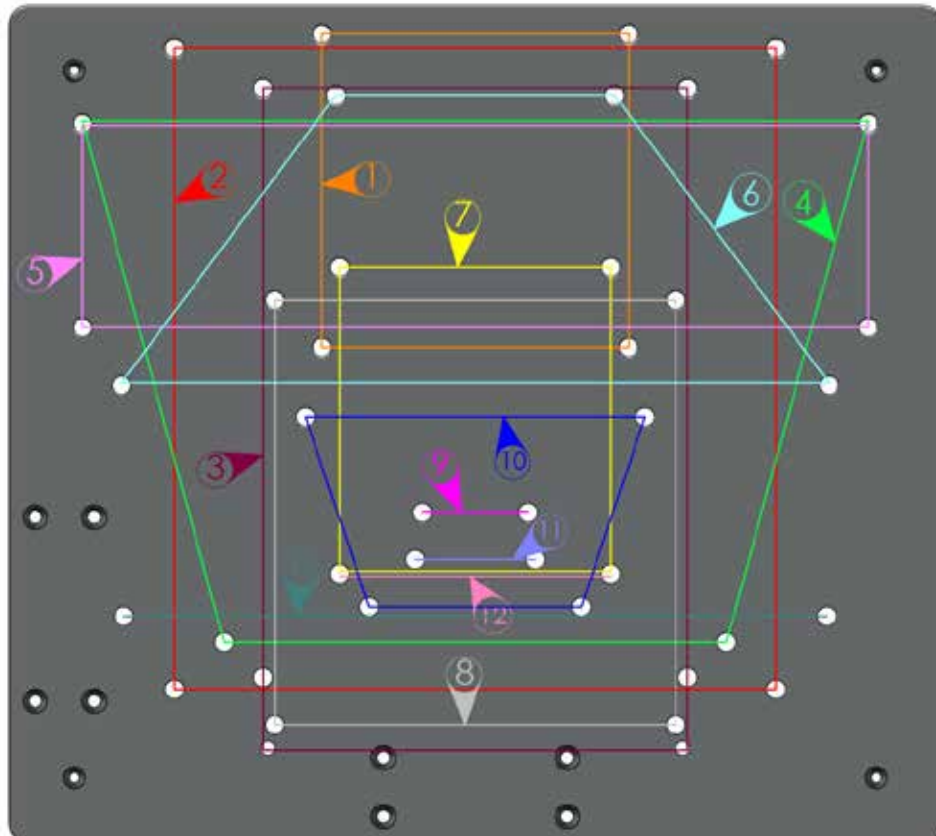
3. Install controls mounting hardware upside down with bolt heads facing the floor.

⚠ All controls (except WinWing rudders) mounting bolts are installed upside down (bolt heads on floor side).



Rudder pedals mounting pattern

1. VirPil Ace Interceptor / Collection
2. Saitek/Logitech
3. Brunner Rudder Brackets
4. ThrustMaster TPR / Moza MRP
5. Honeycomb Charlie Rudder Brackets
6. Slaw Device Viper
7. MFG CrossWind
8. WinWing Skywalker
9. VKB Sim and Turtle Beach Velocity One
10. Virtualfly Ruddo+
11. VKB old
12. VirPil Ace Torq
13. ThrustMaster TFPR



4. Thrustmaster TFPR rudder pedals holding tabs installation.
Align rudder pedals along with plate mounting holes and clamping marks as indicated on pedals.

⚠ Clamping holding tabs elsewhere may damage pedals plastic.



5. VirPil Collection / Interceptor rudder pedals.

⚠ Remove factory base bracket held by four bolts and mount pedals to OpenWheeler rudder pedal plate.



6. VirPil Torq rudder pedals holding tabs installation.

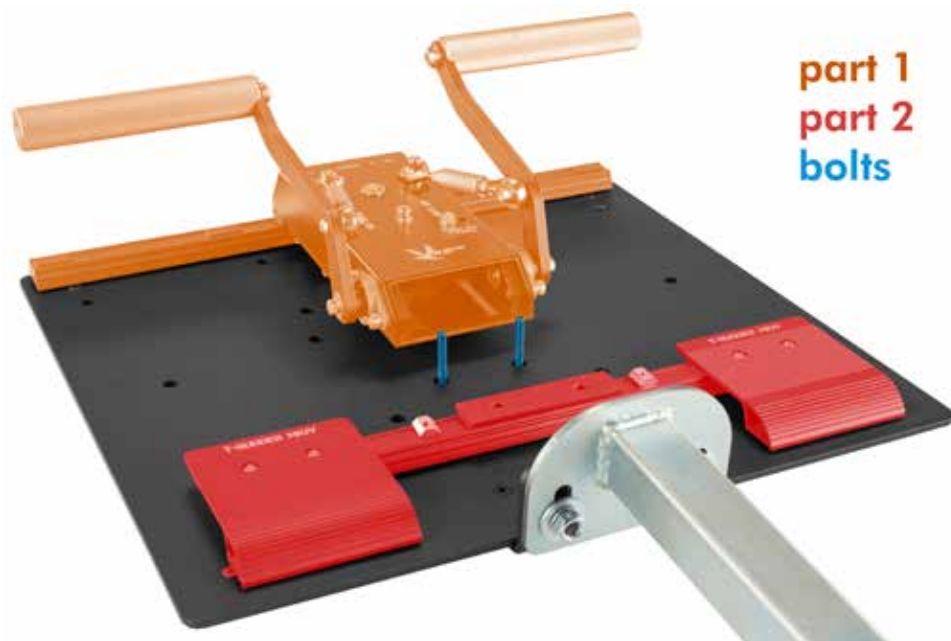
⚠ Use holding tabs and hardware to secure rudder pedals to plate.



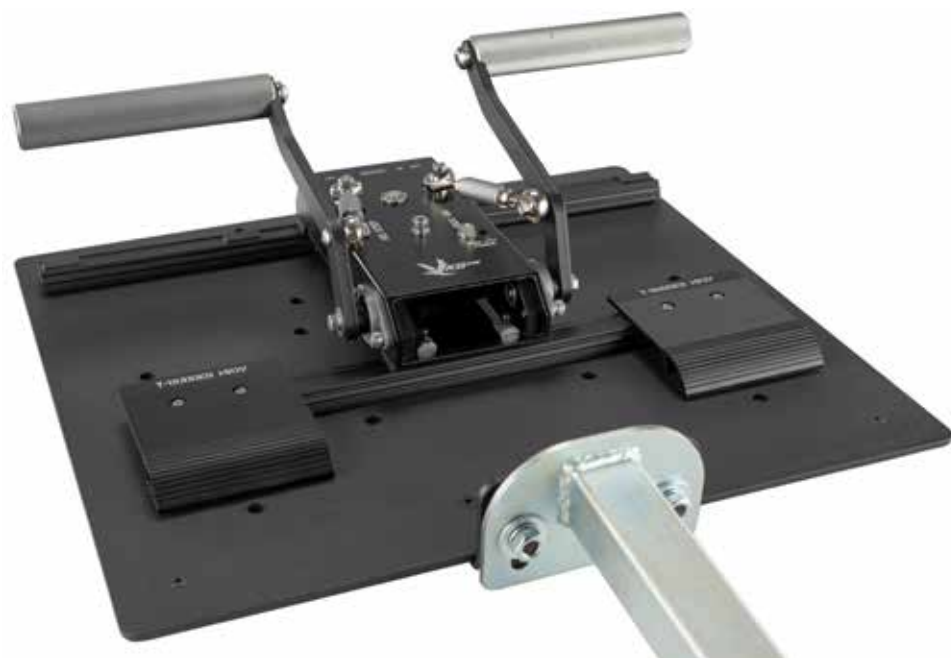
7. VKB T-Rudders Mk.IV rudder pedals.

⚠ Remove factory inserts and bolts holding rudder rear feet as shown, and replace them with hardware as labeled through pedal plate.





part 1
part 2
bolts



8. WinWing Skywalker (Orion) rudder pedals.

Use rudder kit hardware, bag 4A: 4 bolts M6x25mm, 4 washers, 4 nuts.

⚠ WinWing rudder pedals are the only ones with bolts installed right side up: bolt head top of rudders, washers and nuts bottom of plate.



Specifications:

Recliner: max: 170 degrees

Construction: tubular steel frame with elastic strap supports

Seat Materials: high-density cold cure foam filling; Fabric, Steel chassis

Instructions during use and care:

Move simulator around with caution to avoid collision.

Keep out of direct sunlight and outdoor use.

Watch fingers when adjusting recliner.

Placing heavy or sharp objects on the seat may damage the surface material.

Do not use abrasive or chemically aggressive materials on the seat.

Use dry cloth or soft brush to clean the chair.

Dimensions:



Warranty Information

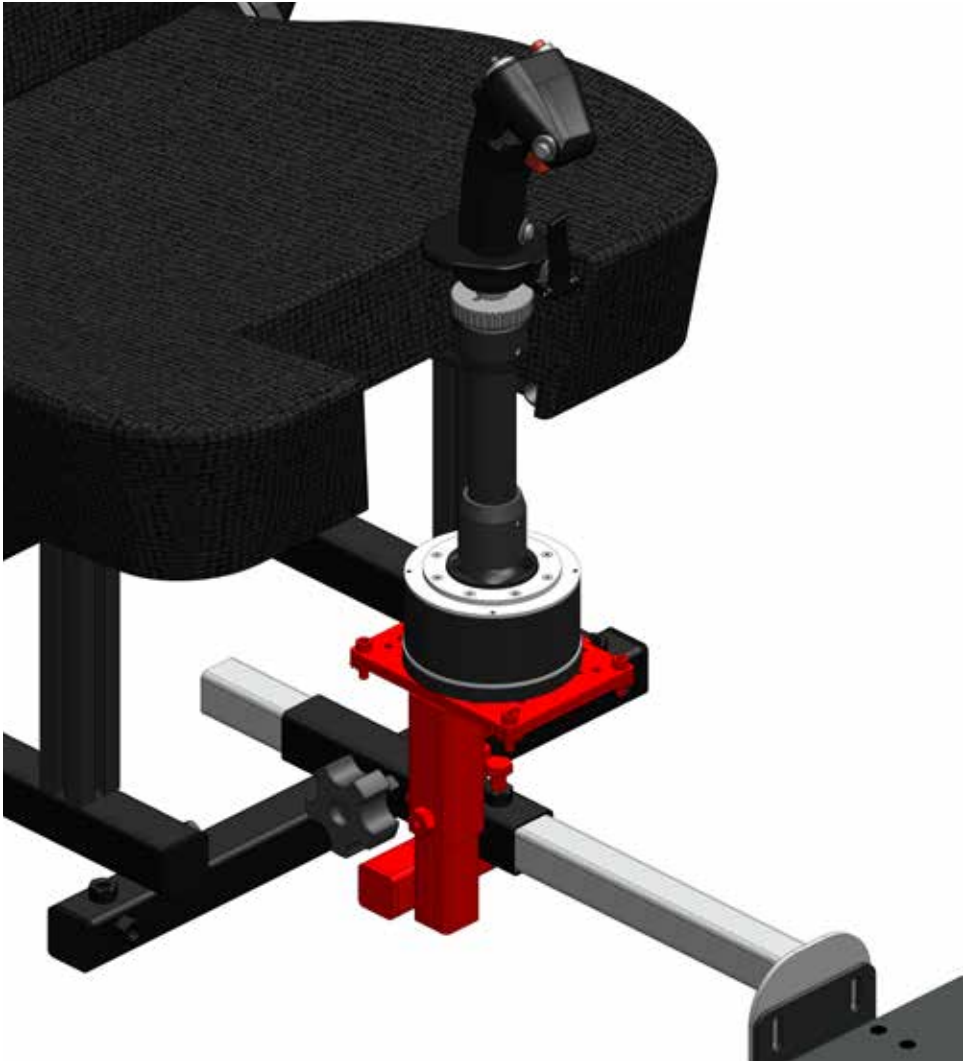
Return Policy

Terms And Conditions

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Flight Simulation Add-on Kit
Configuration #6
Centered Flight Stick Lower Mount Bracket
Assembly Manual
And
Add-on Accessories



Assembly instruction manuals available at:

V5.2 061226

<http://bit.ly/ow-manuals>

by **SimFab**[®]

WARNINGS:



Proceed with caution and extra attention when warning signs are present during installation instructions manual.



WARNING

Choking hazard, small parts. Not for children under 5 years old.



WARNING

Keep hands and fingers clear of pinching points, and hinging metal parts.



Table of Contents

If your item is damaged, defective or missing parts, please contact us first directly at Email: info@SimFab.com or Toll Free: **1-888-299-2746**

As the manufacturer, our knowledge of your new product ensures that we will be able to assist you promptly and accurately.

For invoices and other price information, please refer to your market place account for more details. Alternatively, you can always email us at info@SimFab.com

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Explore the Ultimate in Simulation with SimFab: Where Innovation Meets Immersion

At SimFab, we're redefining the world of simulation with our cutting-edge Modular Racing and Flight Sim Concepts and Designs.

Dive into an unparalleled realm of fidelity, realism, and immersion with our bespoke cockpits, meticulously crafted to mirror the intricate layouts of real aircraft and race cars.

We prioritize your comfort, offering modular, fully compatible setups that adapt seamlessly to all major brands and control makers. Starting with affordable yet uncompromised quality base models, our products cater to both novice pilots eager to explore flight simulation and seasoned racers seeking upgradeable, interchangeable designs for a tailored experience.

Join us on a journey where every detail is designed with precision, ensuring a simulation experience that's as thrilling as it is authentic.



Introduction

Centered stick lower mount bracket is dedicated but not limited to the following brands flight sticks with removable grip and ability to add grip extension: Thrustmaster Warthog, VirPil, VKB, WinWing, Moza

⚠️ Bracket kit is not compatible with FFB stick bases such as Moza AB9 and VPforce Rhino. Search FFB retrofit kit, configuration #15 in our catalog for compatible bracket kit.

- Bracket allows height adjustment as low as 5.5" from floor to base plate with bracket mounted beneath main support tube. With added extension tube (not grip extension), as high as 16.5" from floor to base plate, with bracket mounted over main support tube. Total of 11" height adjustment. Purpose of adjustable flight stick base is allowing precise vertical alignment of stick grip in accordance to seat height and grip extension (if such is installed to the stick).
- Plates are pre-drilled to accommodate the following sticks and stick bases: Thrustmaster Warthog or AVA, all Virpil, VKB Gunfighter, WinWing Orion2 and Super Libra, Moza AB6 (not compatible with AB9).
- Bracket is clamped beneath or over seat frame center tube.



Bill Of Parts

1. Lower clamping bracket
2. Mid extension bracket
3. Upper L bracket
4. Lower adapter plate
5. Upper adapter plate
6. Clamping 3-hole tab

Clamping bracket mounting hardware:

7. M8x80mm button head bolt (2)
8. M8 washer (2)
9. M8 nut (2)

Lower plate to upper L bracket mounting hardware:

10. M6x50mm countersink bolt (2)
11. M6 wide washer (2)
12. M6 tooth washer (2)
13. M6 nut (2)

Upper to lower adapter plate hardware:

14. M6x20mm countersunk bolt (4)

Revision Note:

The socket head zinc-plated bolts connecting upper and lower plates, shown in the illustrations have been replaced with black steel countersunk bolts.

Actual hardware supplied may differ slightly from the illustrations but will function as described in the assembly instructions.

15. M6 flat washer (4)
16. M6 tooth washer (4)
17. M6 nut (4)
18. M10x20mm hex bolt (substitute top quick release knob for clearance)
19. M10x12mm set screws (2)
20. Optional small quick release knobs for "hot swap" or quick removal of top assembly with stick control with upper L bracket (2)

Upper plate to stick base mounting hardware

21. Stick upper plate (stick base cover) to lower plate hardware: m6x20mm socket bolts (4); washers (4); lock washers (4); nuts (4)

22. Stick mounting hardware:

- a) Thrustmaster Warthog, VirPil, VKB sticks mounting hardware: M4x12mm countersink bolts (4); 2.5mm hex key
- b) WinWing Super Taurus stick mounting hardware: M6x12mm bolts (4)
- c) WinWing Orion2, Moza AB6 mounting hardware: M4x10mm countersink bolts (4)

 For the Moza AB6 stick base, remove (peel off) the factory rubber feet on the front side of the control base (away from the seat) so the base plate can rest flat against the bottom of the stick base. Install the countersunk bolts connecting the upper and lower plates through the upper plate before installing the upper plate onto the AB6 stick base.

23A.  (4)

23B.  (4)

23C.  (4)

Installation

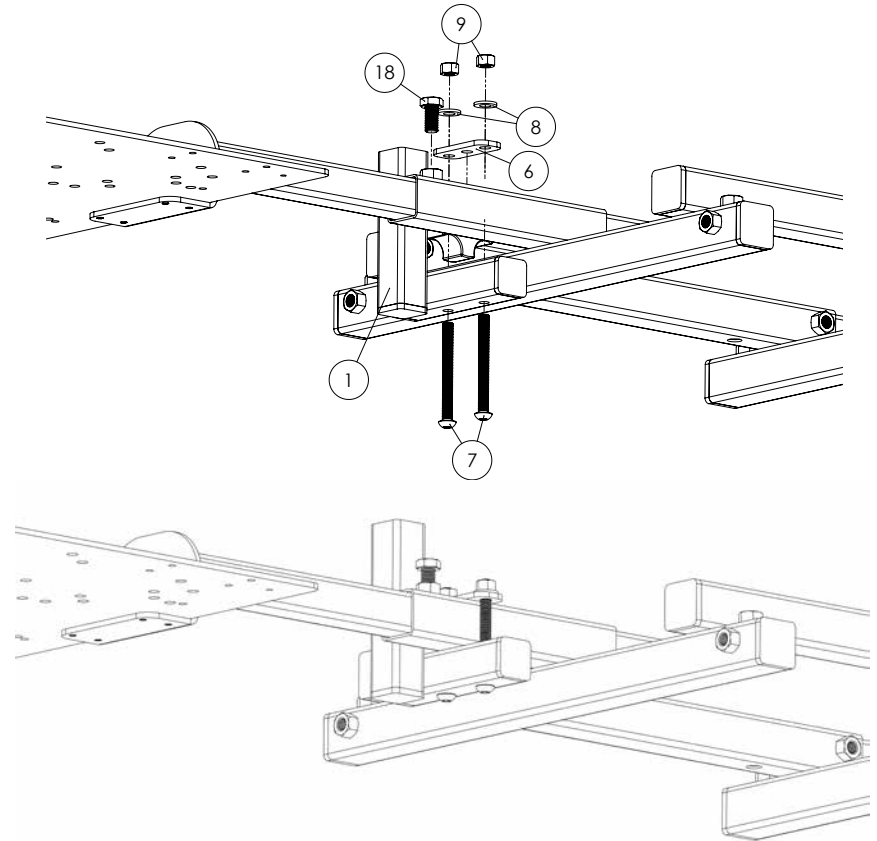
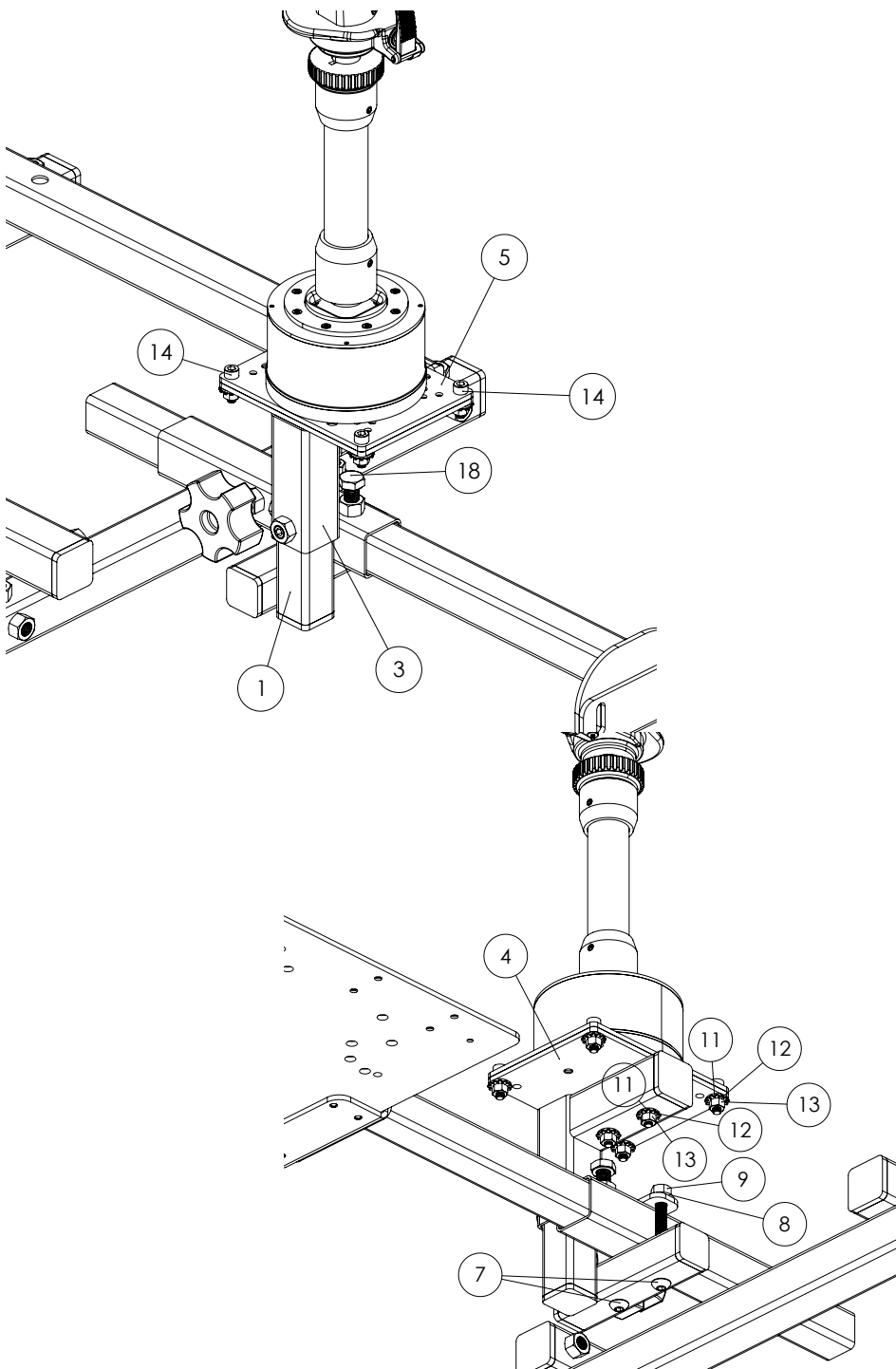
Option 1: Mount lower bracket beneath tube for lowest height adjustment.

Clamping bolts are mounted upside down.

Replace top mounted knob with supplied bolt for clearance. Use 17mm open wrench to tighten or loosen bolt without removing bracket. Ensure bracket is clamped far enough from side knob to allow knob release if needed.

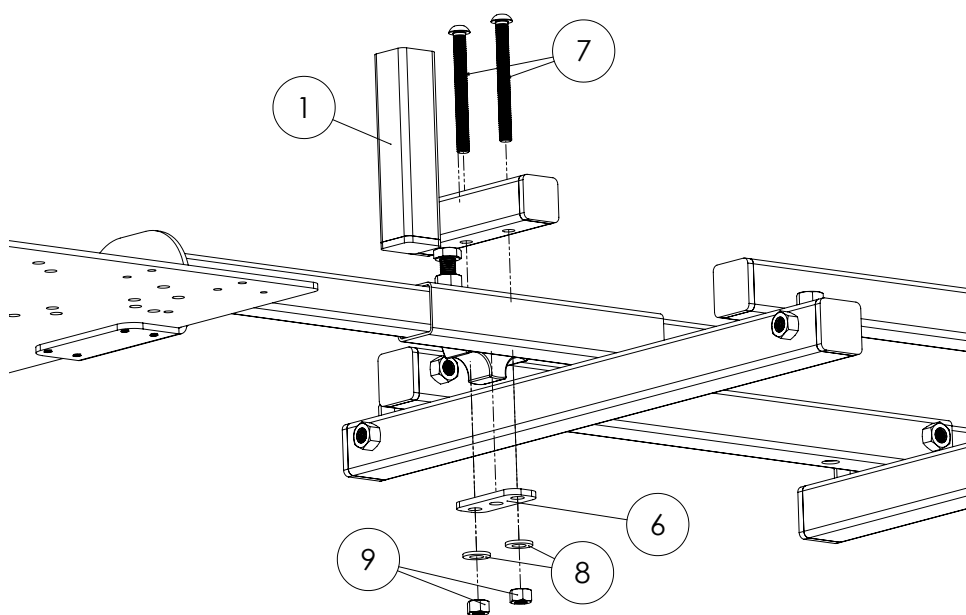
⚠ Ensure clamping bolts have equal tension and clamping tab lays flat against main support tube. Do not over-tighten bolts to avoid bending 3-hole tab.

⚠ Ensure tab and bracket are square to tube they are clamped on.



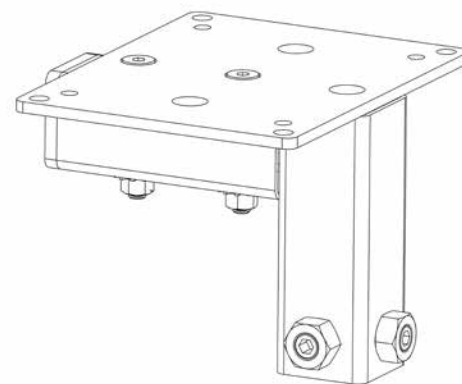
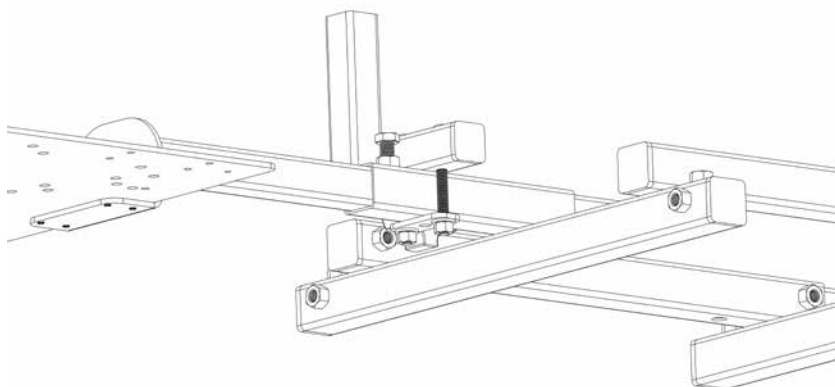
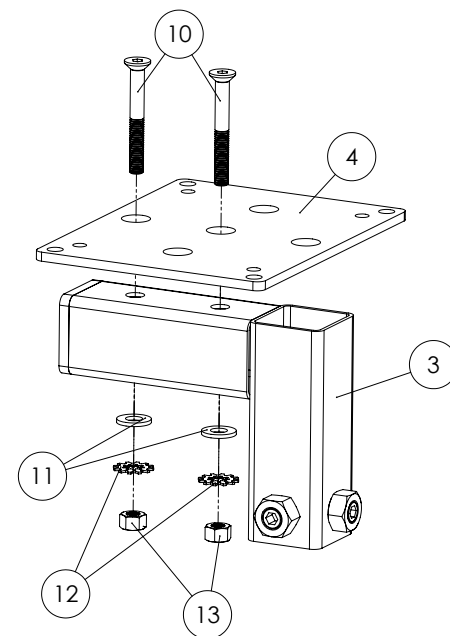
Option 2: Mount lower bracket on top of main support tube for highest height adjustment.

⚠ Clamping bolts are mounted right side up.

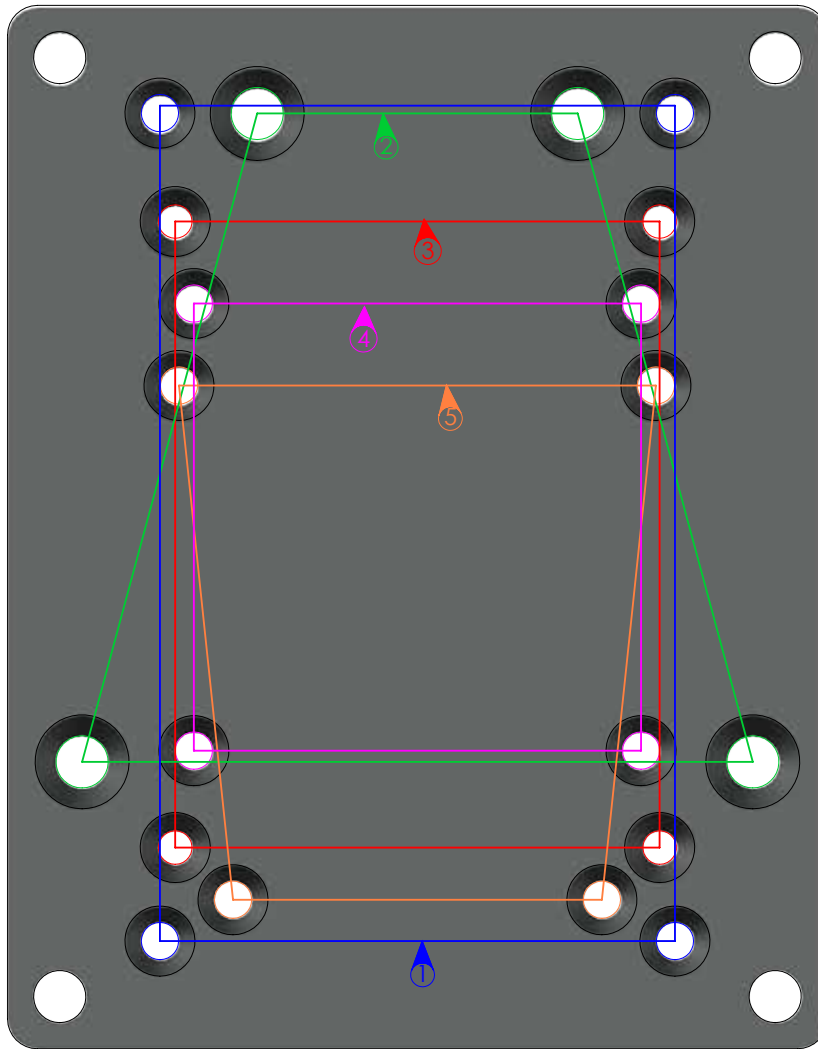


Attach lower adapter plate to the center stick upper L bracket. Depending on control base mounting pattern plate may be installed in either direction.

Use pair of M6x50mm countersink bolts to secure lower plate to bracket.

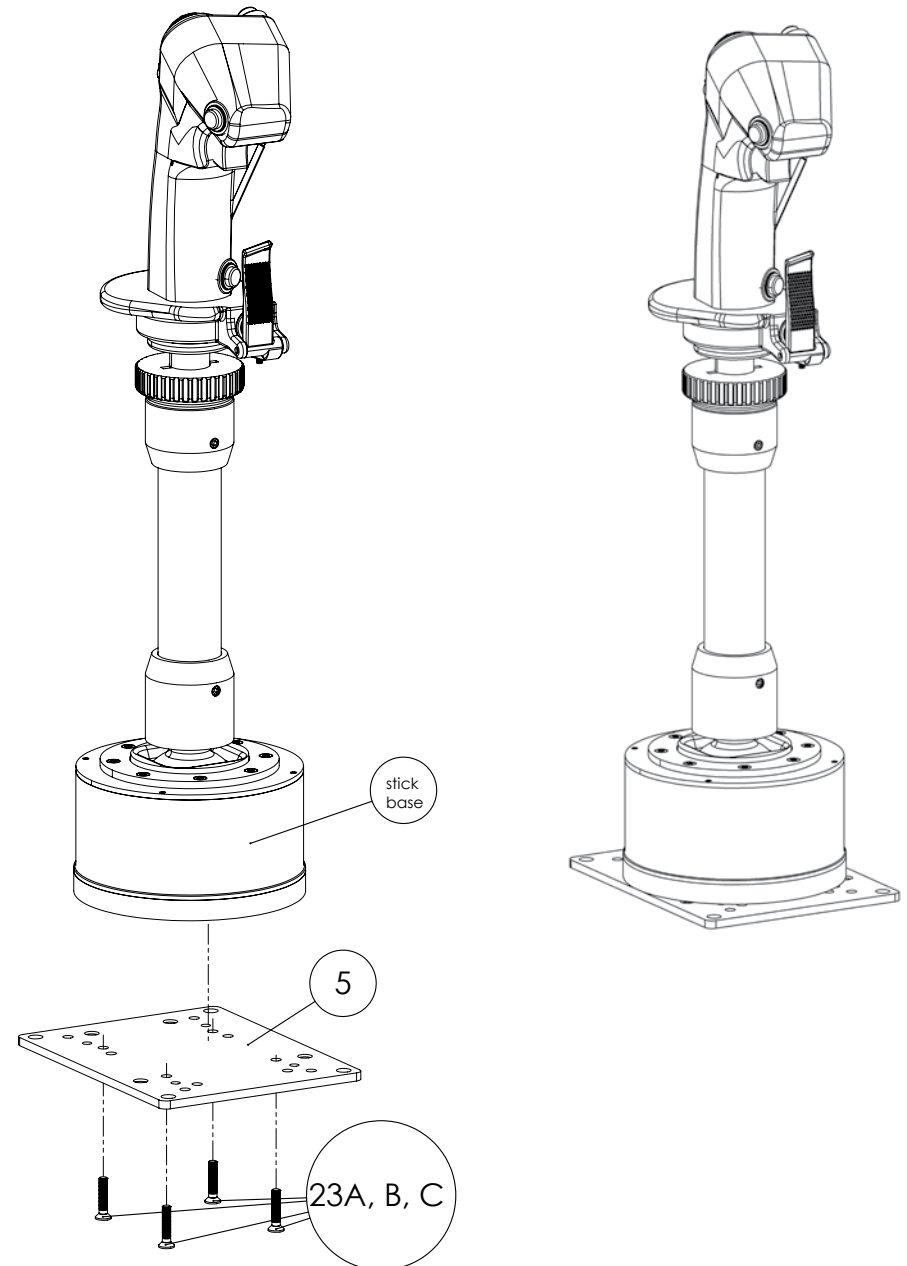


Mounting patterns by brands and models.

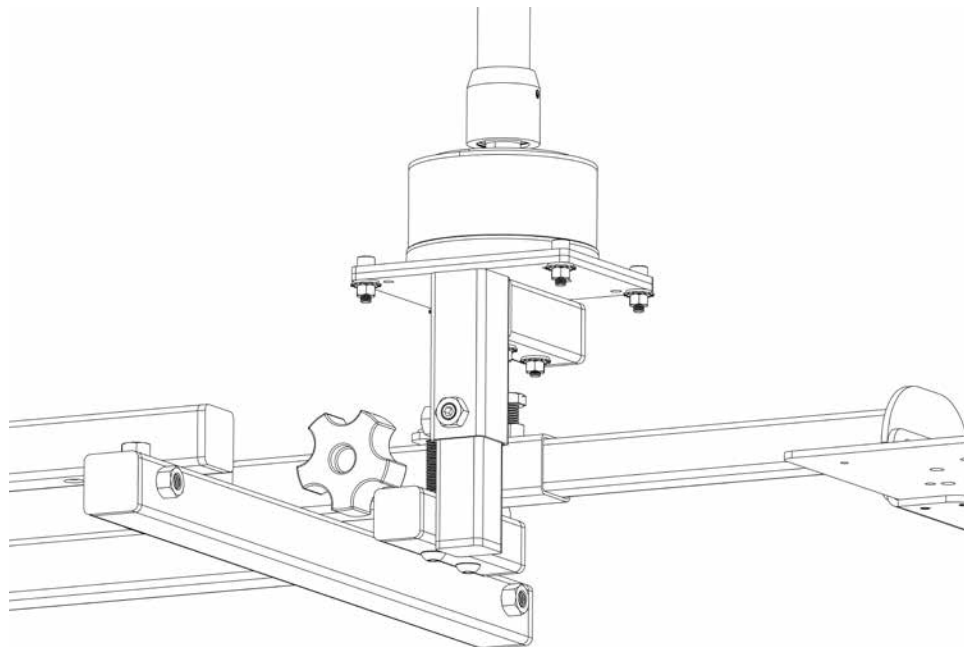
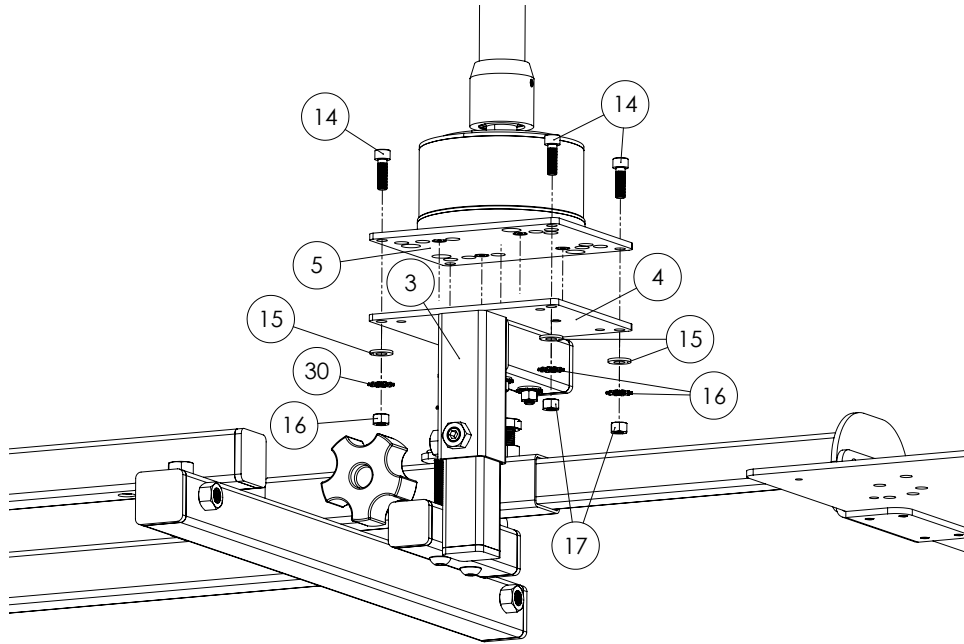


- 1 Virpil Mongoos
WarBRD
- 2 WinWing
Super Libra
- 3 Virpil CDT
- 4 Thrustmaster Warthog
WinWing Orion2
Moza AB6
- 5 VKB Gunfighter

Attach upper adapter plate to stick base. Certain controls may require removal of their factory base plate and replacing it with SimFab cover plate. Such control is Thrustmaster Warthog stick base. If threaded inserts on the stick base are exposed and accessible, removal of factory plate is not necessary.



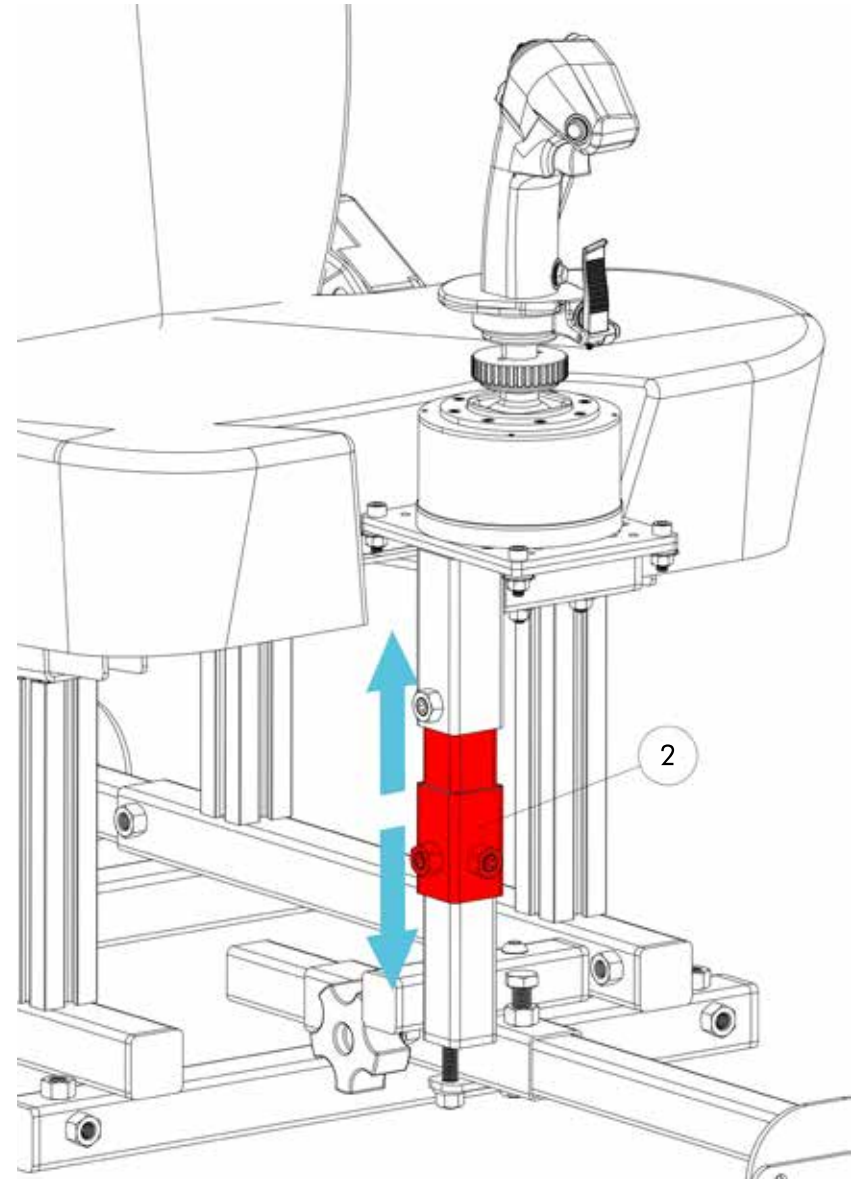
Attach upper to lower plate with provided hardware.



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Option #3: Install bracket extension tube if necessary to achieve highest height adjustment. Normally used when stick is used without grip extension. Gently tighten down set screws pre-installed on two adjacent sides of tube extension until tube is secured and straight. Do not over tighten set screws.

Adjust overall bracket height by extending each section of the assembly within its limits



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⚠ When center mounted stick is not being used, remove upper bracket along with the stick attached to it and leave lower bracket clamped on seat frame. For frequent controls hot swap, replace set screws with small quick release knobs. Look up our catalog for an optional kit including set of plates and upper L bracket dedicated to 2nd stick. Sticks can be hot swapped as illustrated with minimum downtime.



Specifications:

Recliner: max: 170 degrees

Construction: tubular steel frame with elastic strap supports

Seat Materials: high-density cold cure foam filling; Fabric, Steel chassis

Instructions during use and care:

Move simulator around with caution to avoid collision.

Keep out of direct sunlight and outdoor use.

Watch fingers when adjusting recliner.

Placing heavy or sharp objects on the seat may damage the surface material.

Do not use abrasive or chemically aggressive materials on the seat.

Use dry cloth or soft brush to clean the chair.

Dimensions:



Warranty Information

Return Policy

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Assembly And Installation Manual For Retrofit Kit Force Feedback Stick Bases: Moza AB9, VPforce Rhino



Required accessory for center mount, not included in the kit, Grip Extension:

With force feedback center mounted stick bases such as Moza AB9 and Rhino, retrofit bracket kit has fixed height. Stick base size allows tight fit between lowest point of SimFab frame and bottom of seat base. Therefore, grip extension is the only way to adjust grip height. Adjusting the grip height is essential for optimal ergonomics and comfort of use. With the fixed base height, we recommend grip extension between 130mm and 180mm.

We recommend our grip extension: configuration #7 compatible with Moza, Rhino bases, Virpil, Thrustmaster, WinWing stick grips. SimFab grip extension allows continuous adjustment for precise height setting in range between 70mm and 195mm. Learn more about SimFab grip extension kit, configuration #7 here: <https://simfab.com/product/simfab-flight-sim-configuration-7-stick-grip-extension-kit>

Bill Of Parts

Required tools, not included in the kit.

Tools are included with all SimFab base models cockpits.

1. 17mm flat wrench
2. 13mm flat wrench
3. 10mm flat wrench
4. 5mm hex key
5. 4mm hex key

Hardware for both Moza AB9 and Vpforce Rhino:

1. Adapter base plate (2)

Clamping hardware

2. M8x90mm countersink bolt (2)
3. M8 wide washer (2)
4. M8 tooth washer (2)
5. M8 nut (2)
6. Clamping tab
7. Spacer tube

Upper to lower plates hardware:

8. M6x25mm socket bolt (4)
9. M6 washer (8)
10. M6 tooth washer (4)
11. M6 nut (4)

Frame knobs replacement hardware:

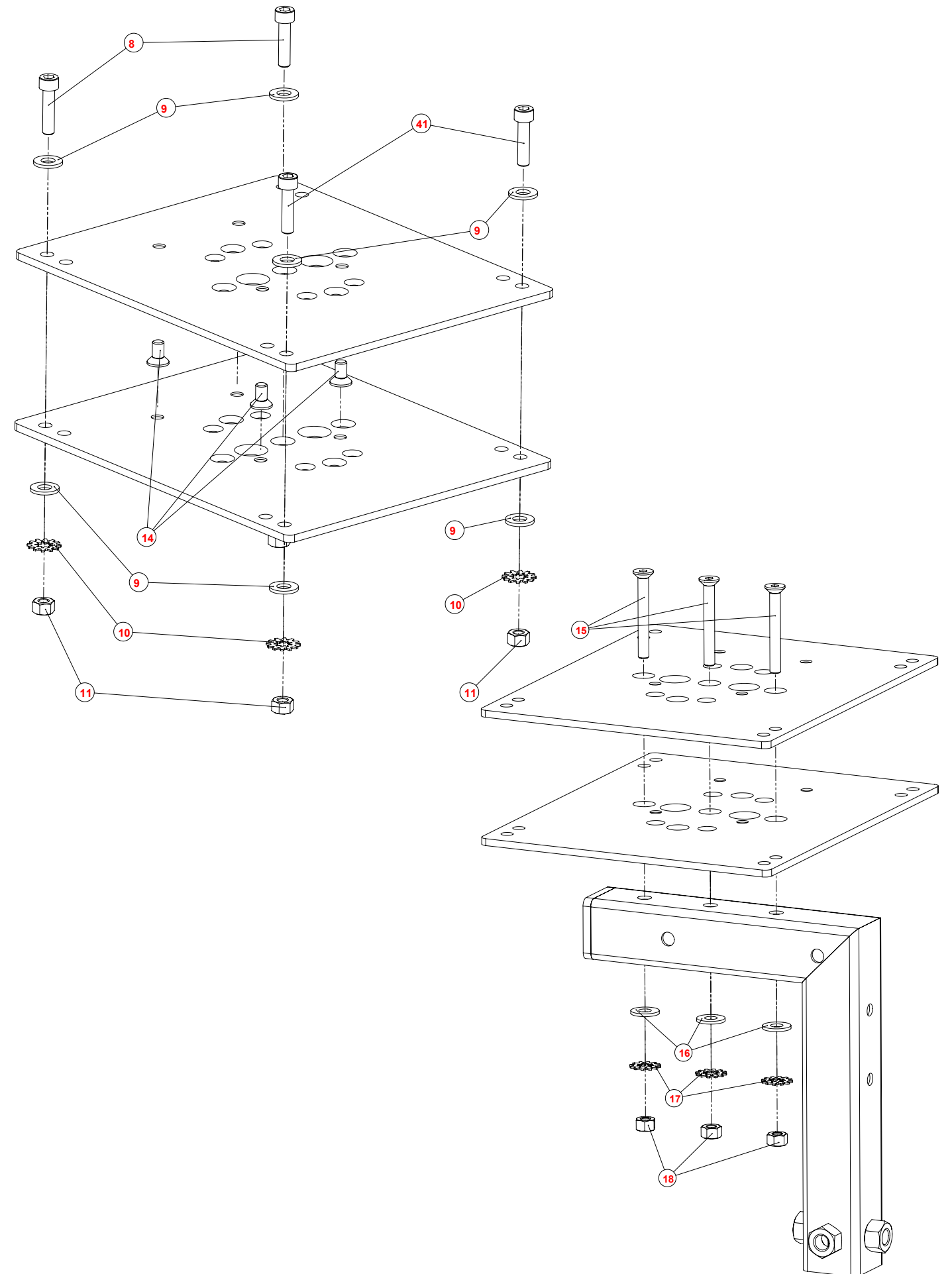
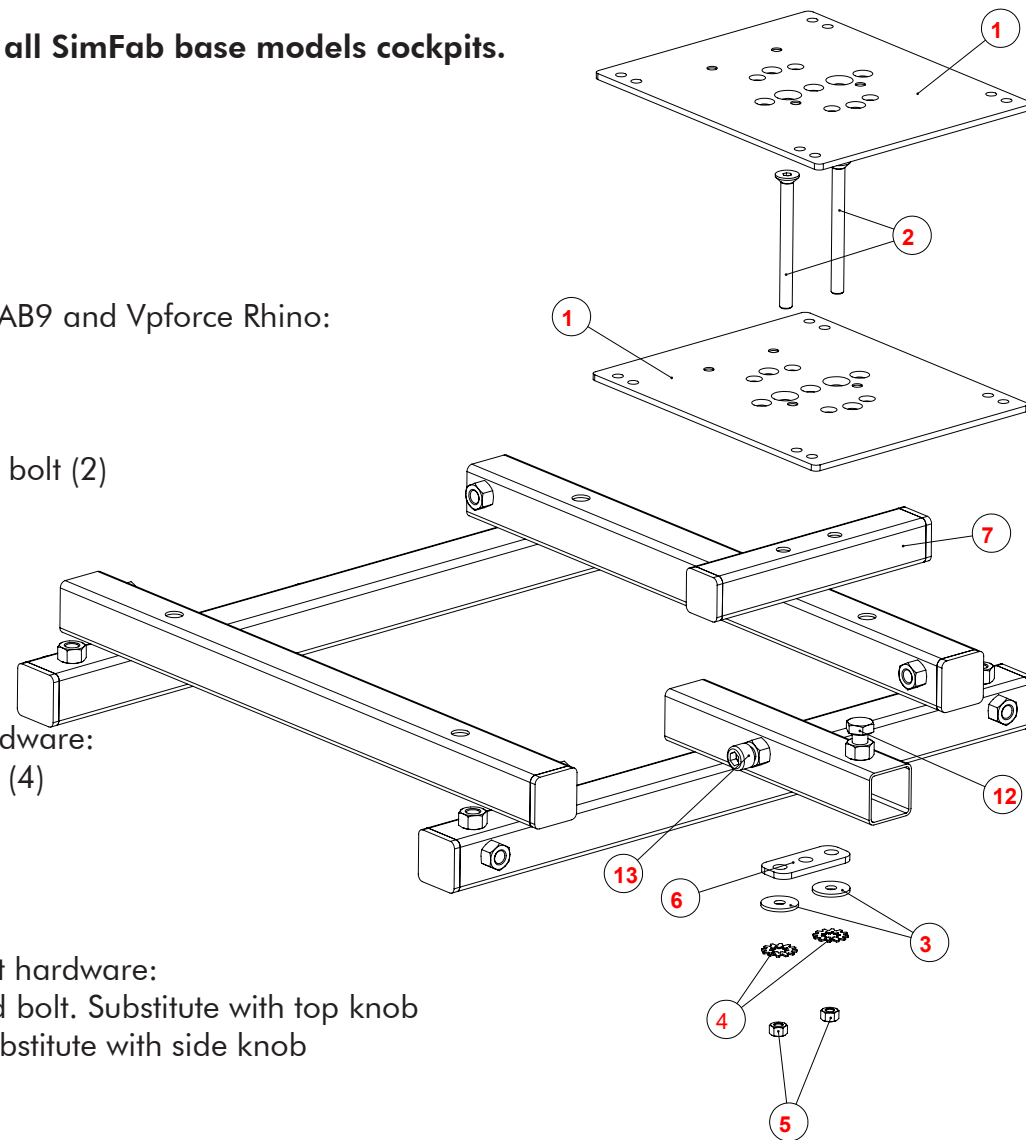
12. M10x20mm hex head bolt. Substitute with top knob
13. M10x12 set screw. Substitute with side knob

Moza AB9 hardware:

14. M6x12mm countersink bolt (4)

Side mount hardware:

15. M6x50mm countersink bolt (3)
16. M6 washer (3)
17. M6 tooth washer (3)
18. M6 nut (3)





Moza AB9 Assembly And Center Mount Installation

- Keep plates in pair as they are packed. Turning plates around may cause mismatch of holes. To ensure correct direction of each plate, all holes on top and bottom plates must match.
- Remove default handle knobs on seat center frame and replace them with included hex head bolt (top) and set screw (side).
- Place tube spacer over frame center tube and install either one of the plates on top with clamping holes and clamping hardware.
- Ensure plate is installed correctly and matches holes to correct orientation of Moza stick base. Tighten nuts by hand and adjust fore/aft of plate on center tube. Tighten bolts and nuts equally until plate is secured. **Do not** over tighten hardware to avoid bending clamping tab, bending plate or damaging hardware.
- Install top plate to bottom of Moza stick base. Install all four countersink bolts by couple turns only and then use 4mm Hex key to tighten them all the way in.
- Sandwich top to bottom plates and secure them together through end perimeter of plates 4 holes, at each corner, with included hardware.

VPforce Rhino Assembly And Center Mount Installation

- Keep plates in pair as they are packed. Turning plates around may cause mismatch of holes. To ensure correct direction of each plate, all holes on top and bottom plates must match.
- Remove default handle knobs on seat center frame and replace them with included hex head bolt (top) and set screw (side).
- Place tube spacer over frame center tube and install both plates on top with clamping tab and clamping hardware.
- Tighten nuts by hand and adjust fore/aft of plate on center tube. Tighten bolts and nuts equally until plate is secured. **Do not** over tighten hardware to avoid bending clamping tab, bending plate or damaging hardware.
- Install Rhino base on top of plates and secure the base through matching plates and stick base holes, with included hardware.

Optional Side Mount Installation

Remove grip extension and connect grip directly to grip base.

Install bottom plate (for Moza) or both plate (for Rhino) to universal upper side bracket via 3 countersink bolts, washers, tooth washers and nuts.

Set lower L bracket with its shorter arm pointing up and longer arm sliding into the seat frame. Slide upper L bracket to lower L bracket all the way down until it bottoms out. If necessary adjust height.

For SimFab setups with complex side mount such as configurations #10, #10A, #13 the side bracket is rather not suitable for FFB stick bases as lowest setting is still too high. Reach out to us for solution and modified parts.