Modular Flight Simulator Pit, **MSFS Edition**

* Assembly Manual
* Introduction Of Modular Design
* Optional Add-on Accessories



Assembly instruction manuals available at:

http://bit.ly/ow-manuals

V6.3M 070326

by SimFab.com

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

WARNINGS:

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

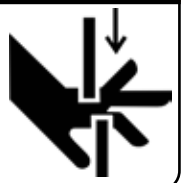
WARNING

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 "MSFS 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.

5. Install flight sim configuration #5, yoke and throttle quadrant brackets.

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

Master Parts list

Seat and frame kit assembly, page 28

1. Seat with removable center foam insert.
2. Felt pads (4)
3. Seat frame
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.

Rudder plate assembly and hardware

⚠ **Part list from 1 through 4 and images, refer to rudder pedal plate assembly section, page 33**

1. Rudder pedal plate with mounting bracket.
2. Rudder pedal plate shaft.
3. Rudder pedal plate to shaft mounting hardware.
4. Various rudder pedals controls mounting hardware

Yoke and throttle quadrant bracket kit, and hardware.

Refer to Configuration #5 Yoke package assembly section, page 46

1. Yoke and quadrant plate with pre-assmebled shaft (2)
⚠ Hardware for Honeycomb controls is pre-assembled by default.
⚠ Hardware must be removed when Logitech, CH Products or Turtle Beach Velocity One controls are being used.
2. Yoke and throttle posts
3. T extension tube
4. Yoke and throttle quadrant controls mounting hardware:
5. Quadrant main support shaft
6. Knobs and bolts (pre-installed to both posts)
7. 4-way coupler for optional keyboard mount on right hand side



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.



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

• 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.



Fig.4

• 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.



Fig.5

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.



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

4. Rudder plate assembly.

⚠ Refer to rudder pedal plate installation, **page 33** a.k.a “Configuration #4”.

5. Yoke package assembly.

⚠ Refer to yoke package installation manual a.k.a “Configuration #5”, **page 46**

⚠ Thrustmaster TCA Yoke, Boeing edition requires additional mounting bracket. To order, refer to QR code and link below.







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https://bit.ly/sf-tm-tca

Flight Simulator Add-on Kit
Configuration #4
Rudder Pedal Plate
Assembly Manual



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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

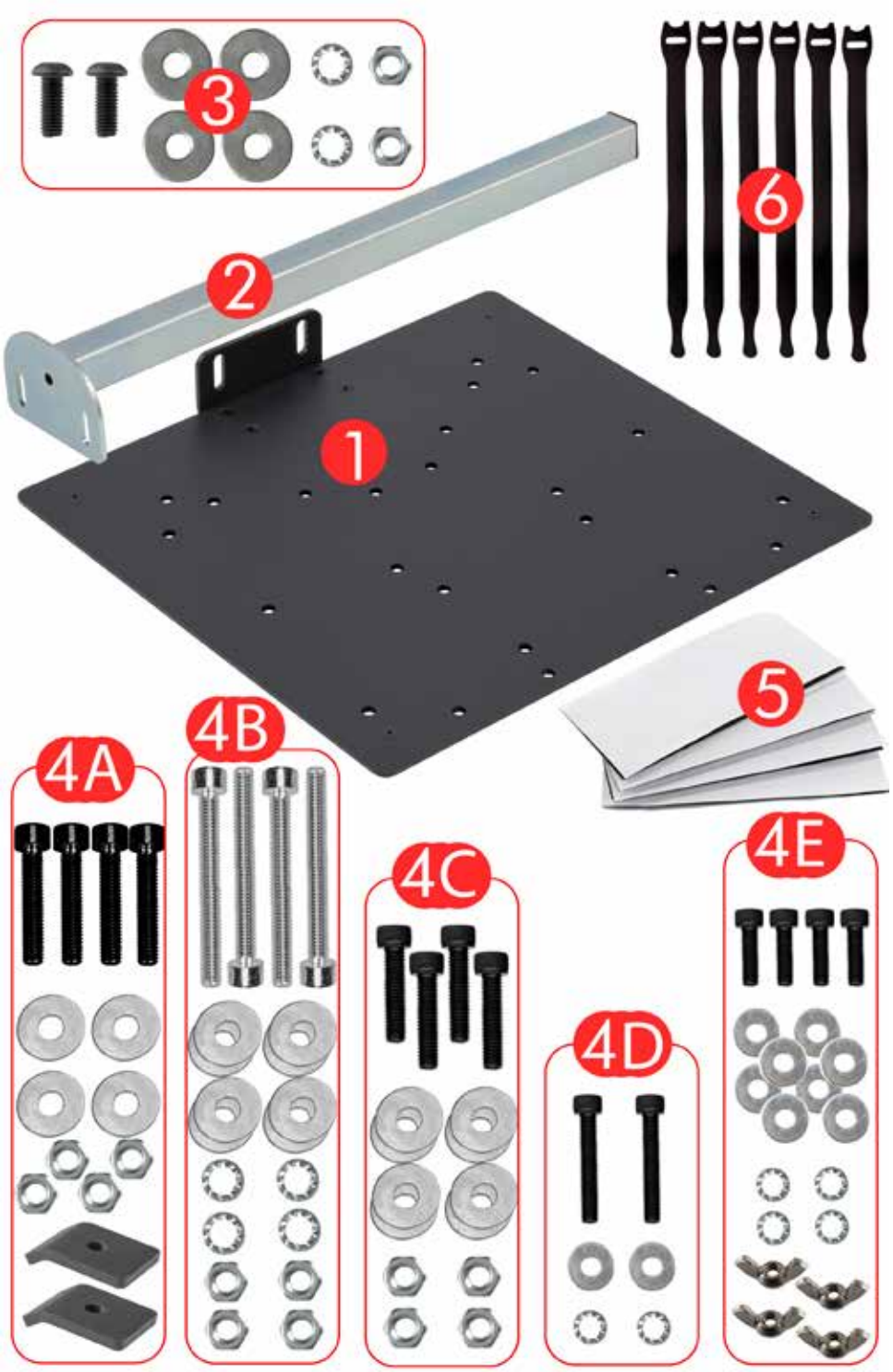
B. Logitech (Saitek)

C. MFG Crosswind

D. VKB T-Rudders Mk.IV

E. TPR, VirPil Ace Interceptor/Collection, Slaw Viper, Turtle Beach Velocity One

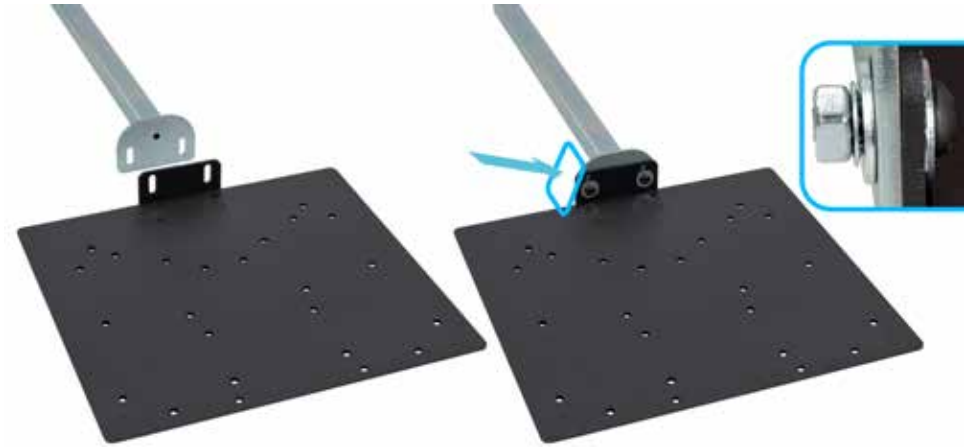
5. Vecro strips for rudder pedals not equiped with through holes or inserts. (4)
6. Velcro ties for cable management (6)



Installation

Pedal plate and shaft assembly

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

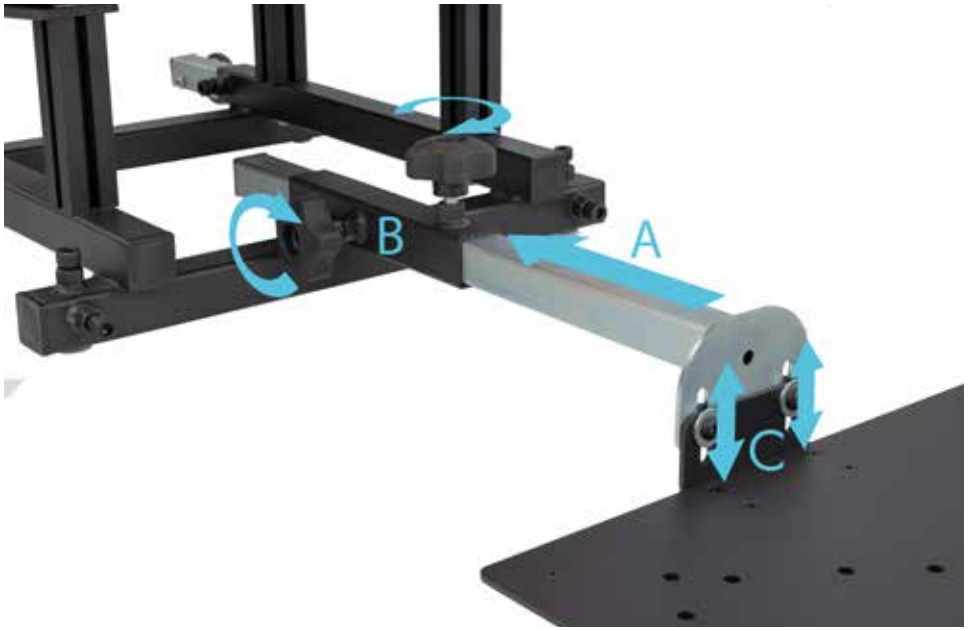


2. Rudder pedal plate assembly to seat frame installation.

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.

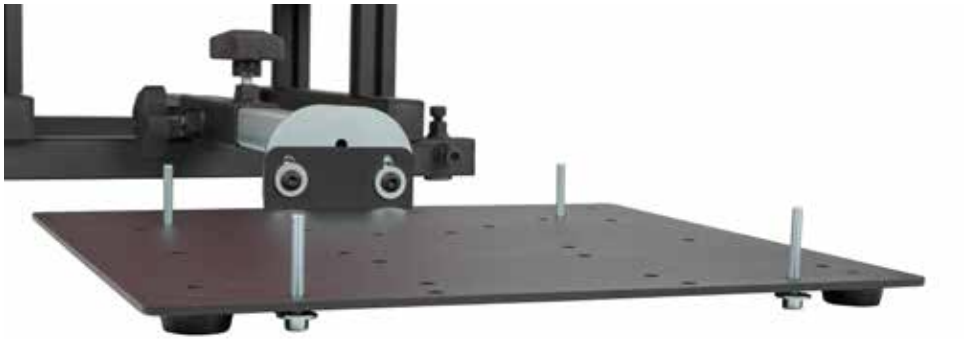




Rudder pedals installation

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

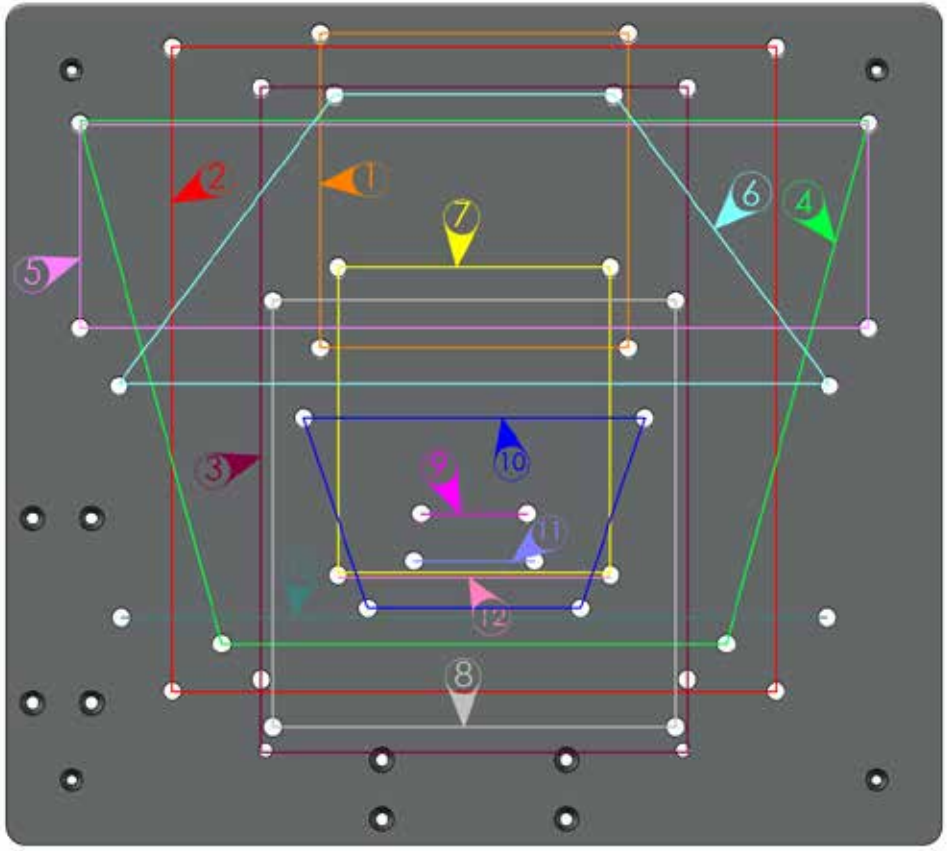
⚠All controls (except WinWing rudders) mounting bolts are installed upside down (bolt heads on floor side).





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.

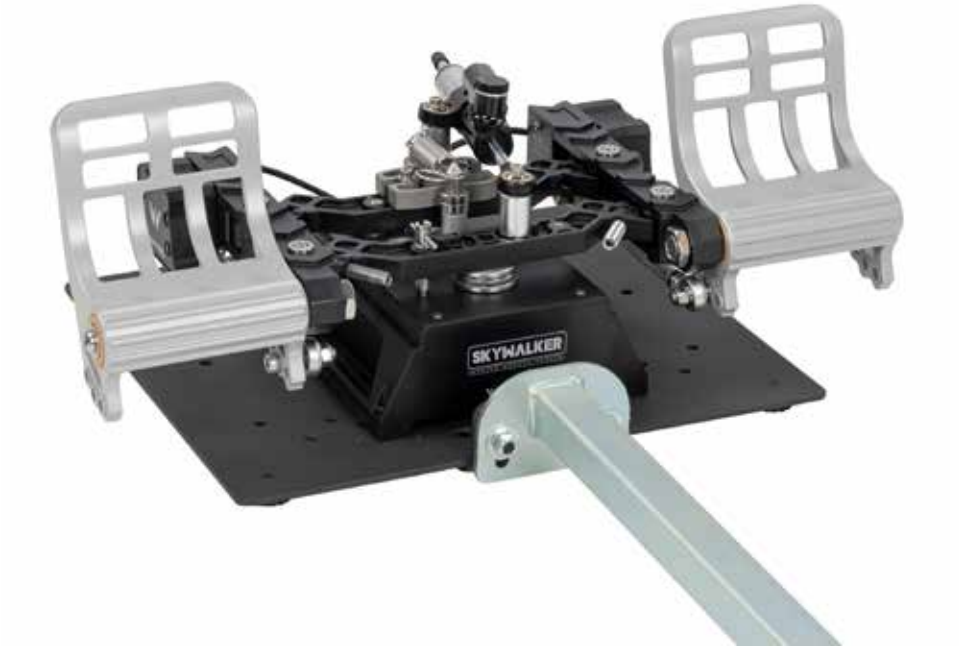








8. WinWing Skywalker (Orion) rudder pedals.
Use rudder kit hardware, bag 4A: 4 bolts M6x25mm, 4 washers, 4 nuts.
⚠ WinWing rudder pedals are the only ones with bolts installed right side up: bolt head top of rudders, washers and nuts bottom of plate.



Flight Simulation Add-on Kit

Configuration #5

General And Commercial Aviation Package

Yoke/Quadrant/Rudder Pedals MK2

Assembly Manual

And

Optional Accessories



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CH Products yoke and throttle installation.....38

Turtle Beach Velocity One yoke and throttle installation.....40

Thrustmaster TCA Boeing throttle only installation.....42

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Parts list

Yoke and throttle quadrant bracket kit, and hardware.

7. Yoke and throttle quadrant plate with pre-assmebled shaft (2)
⚠ Hardware for Honeycomb controls is pre-assembled by default.
⚠ Hardware must be removed when Logitech, CH Products or Turtle Beach Velocity One controls are being used.
8. Yoke and throttle posts
9. T extension tube
10. Yoke and throttle quadrant controls mounting hardware:
10A. Mounting hardware for Logitech (Saitek) yoke and throttle quadrant
10B. Mounting hardware for Turtle Beach Velocity One yoke and quadrant
⚠ Use 4mm Allen key from rudder hardware bag 4E
10C. Mounting hardware for Thrustmaster TCA Boeing edition throttle quadrant, single or dual.
⚠ Thrustmaster TCA Boeing edition yoke requires additional bracket, sold separate.
11. Throttle quadrant main support shaft
12. Knobs and bolts (pre-installed to both posts #8)
13. 4-way coupler for optional keyboard mount on right hand side



Yoke and Quadrant brackets assembly

7. Slide yoke post on rudder pedal plate shaft and slide shaft into seat frame center tube.

⚠ Yoke post can be mounted reversed according to personal preference and comfort.



8. Insert T extension tube into front/right side seat frame tube.



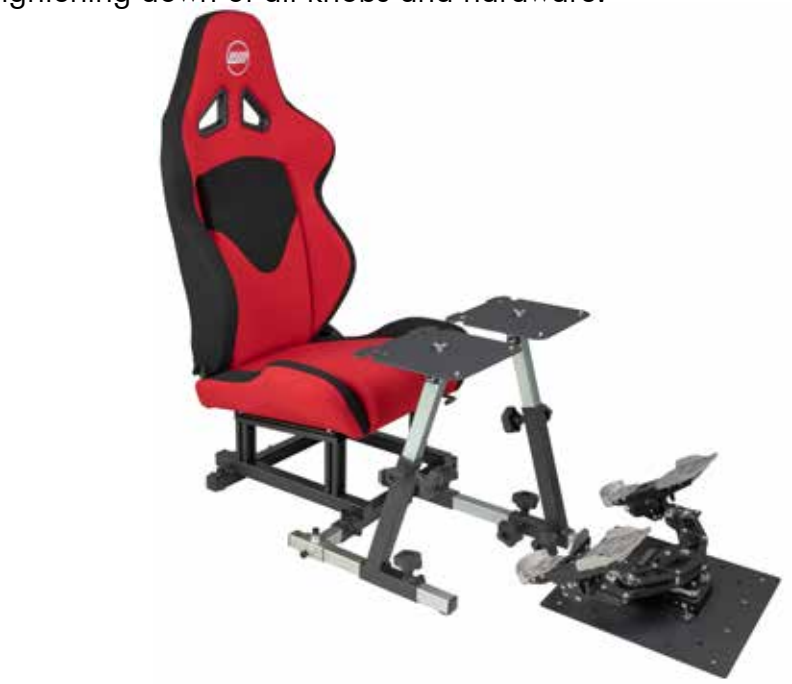
9. Slide quadrant post to horizontal shaft in opposite direction of the yoke post holding the Yoke. Horizontal shaft with felt pad is pointing forward. Slide horizontal shaft into T extension tube. Tighten all bolts and knobs.







10. Insert yoke and quadrant shafts into each post. Ensure pivot bolt of each plate is fastened enough to hold the weight of the control. Keep pivot brackets slightly loose for tilt adjustment before final setting and tightening down of all knobs and hardware.



Keyboard assembly mounted on right hand side by using 4-way coupler

To mount optional keyboard assembly on right hand side along with throttle quadrant bracket assembly, use included in the package 4-way coupling.

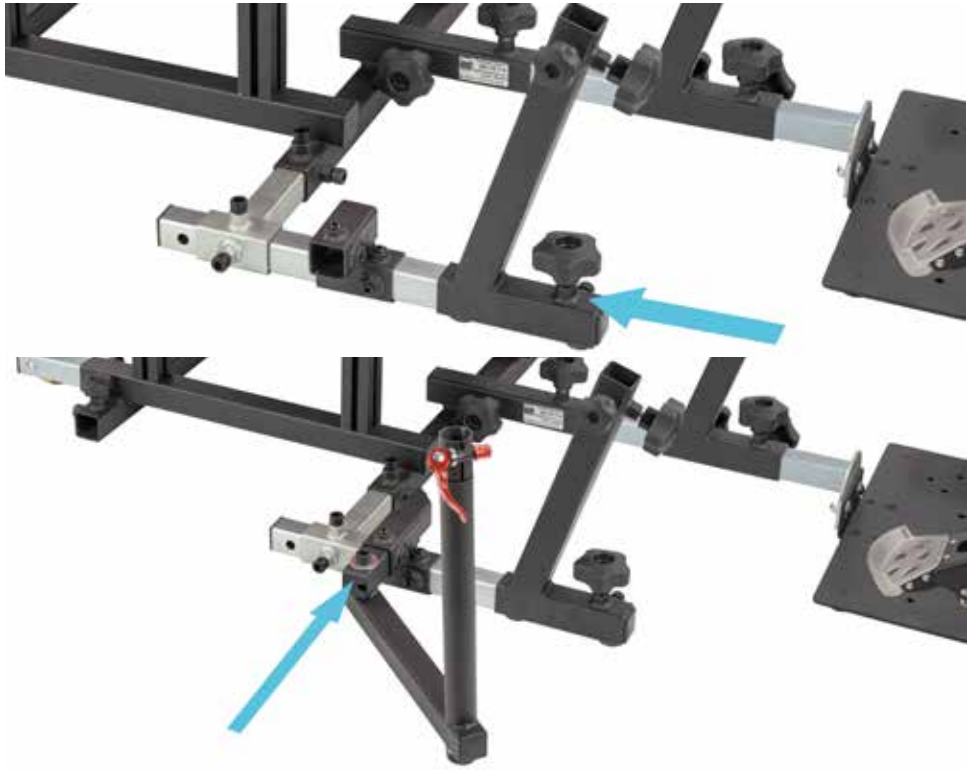


Slide in 4-way coupling on throttle quadrant shaft. Leave pre-installed set screws loose until keyboard tray assembly is set to proper position.



Slide Keyboard tray wedge tube into 4-way coupling and adjust position according to throttle quadrant post, and available tube space.

Tighten all four (4) set screws with 5mm Allen key.





Controls installation and mounting

⚠ By default pre-assembled hardware on both plates is for Honeycomb Alpha yoke and Bravo quadrant.

1. Honeycomb Alpha yoke and Bravo quadrant installation.





1.1. Transfer controls from factory plastic plate to OpenWheeler / SimFab aluminum plates. Mounting principal is the same as factory plate.

1.2. Slide yoke and quadrant on the plate with centered mounted bolt/washer fitting into the control center key way.

1.3. Extend tension wheels until they nest into pre-assembled nuts on each plate. Adjust both wheels equally until plates are secured to the controls.


Alpha Flight Controls
2001RY001346AA







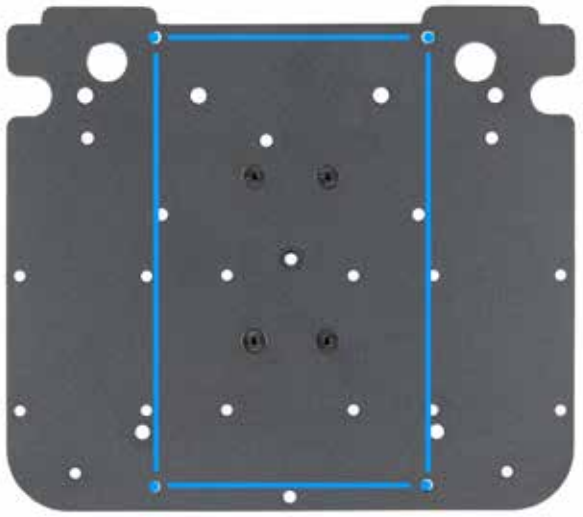
2. Logitech (Saitek) Yoke and quadrant installation



2.1. Remove pre-installed center bolt from plates.



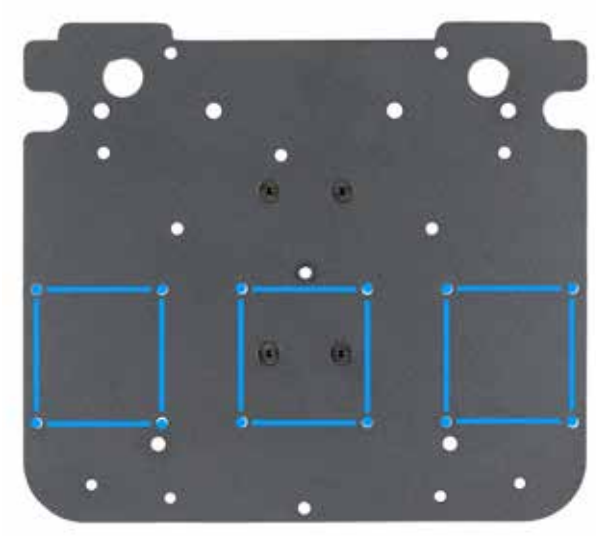
2.2. Use selected hardware (four bolts) to secure Logtiech yoke to plate.



2.3. Use selected hardware (four bolts) to secure Logtiech throttles to plate: single, dual or dual with Flight Velocity trim wheel.

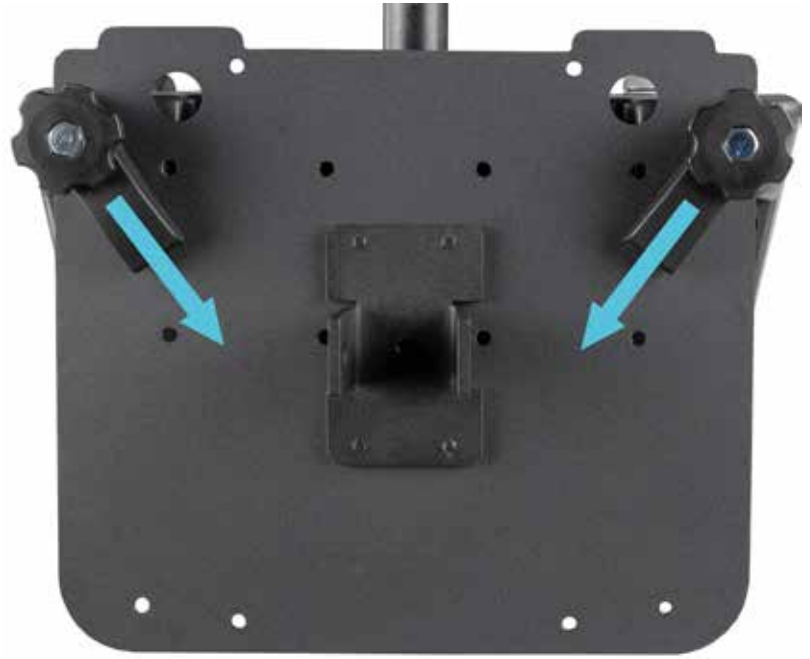
⚠ Flip plate, remove all pre-installed hardware for Honeycomb throttle

⚠ Dual quadrants can be mounted next to each other with Flight Velocity trim wheel.



3. CH Products Yoke and quadrant installation.

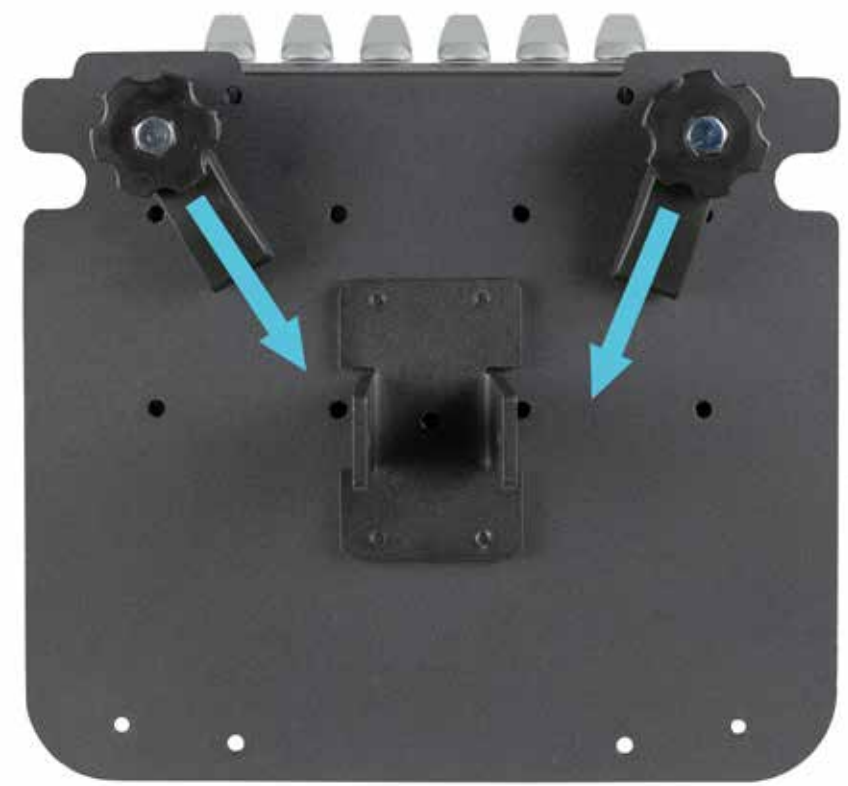




3.1. Remove factory clamps from yoke and quadrant.

3.2. Install clamps through plate larger holes and tighten them down, pointing towards center of the plate.

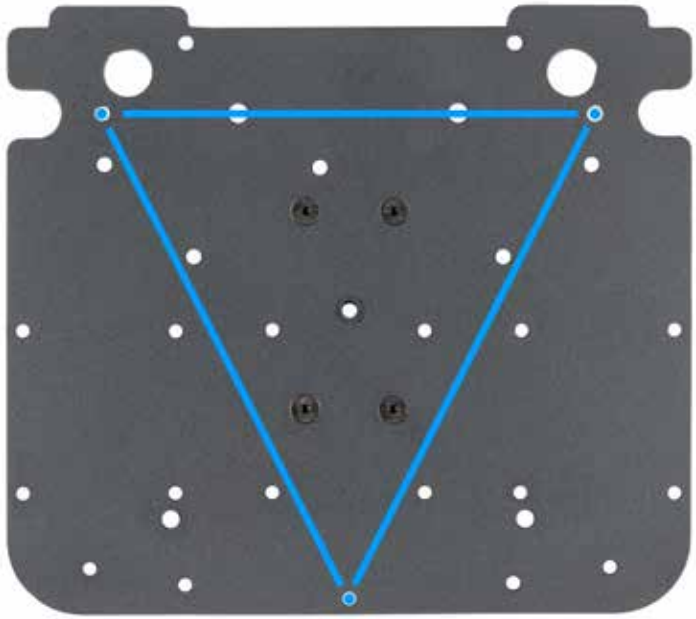




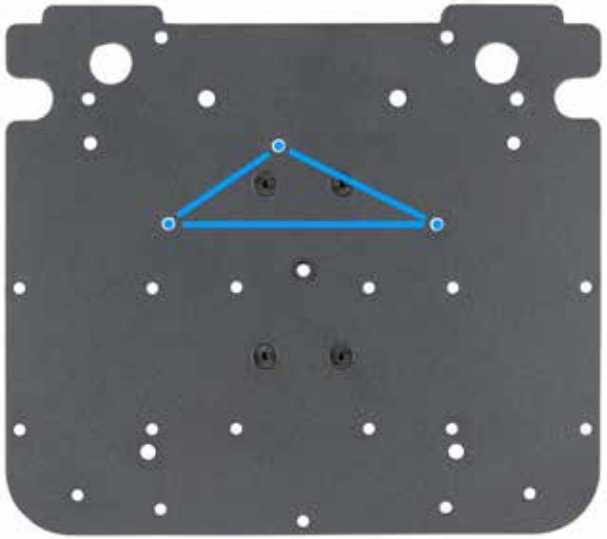
4. Turtle Beach Velocity One yoke and quadrant installation



4.1. Use selected hardware (three bolts) to secure Velocity One yoke to plate.



4.2. Use selected hardware (three bolts) to secure Velocity One quadrant to plate.



Thrustmaster TCA Boeing edition yoke bracket kit, sold separate.

https://bit.ly/sf-tm-tca

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5. Thrustmaster TCA Boeing throttle installation.

⚠ Boeing yoke requires additional bracket, sold separate.

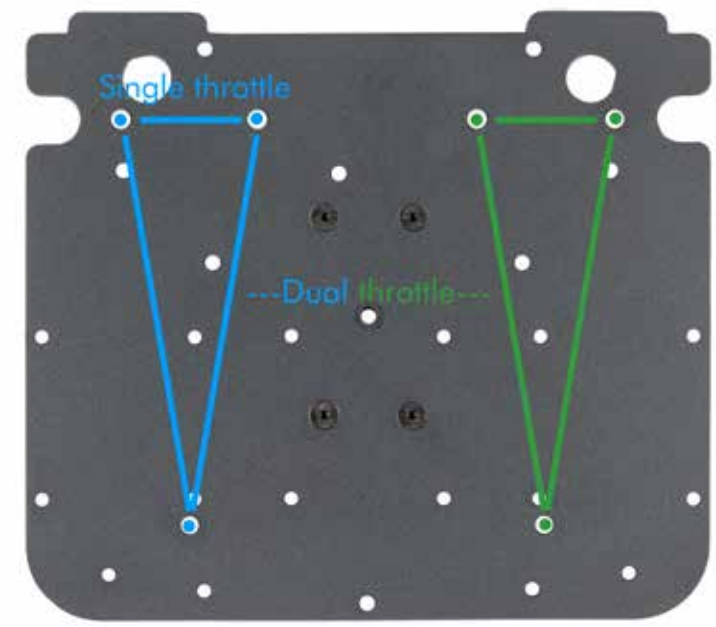
Single throttle



Dual throttle



5.1. Use left sets of holes for single throttle or both sets of holes for dual throttle. Use mountina hardware baa 10C.



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

