

Flight Simulation Add-on Kit  
**Configuration #5**  
**General And Commercial Aviation Package**  
Yoke/Quadrant/Rudder Pedals **MK2**  
Assembly Manual  
And  
Optional Accessories



Assembly instruction manuals available at:

V7.2 102924

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

by **SimFab<sup>®</sup>**.com

If your item is damaged, defective or missing parts, please contact us first directly at Email: [info@SimFab.com](mailto: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.

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## WARNINGS:



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



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SimFab introduces several base models as follows:

Combat sim modular flight cockpit, **DCS World edition**

General aviation modular flight cockpit, **Trainer edition**

Civil aviation modular cockpit, **MSFS edition**

Civil, combat and space sim modular cockpit, **Hybrid edition**

Civil or combat sim modular cockpit, **Rotor-craft edition**

The SimFab modular flight sim trainer station is a state-of-the-art training system designed to optimize cognitive memory and provide full compatibility with high-end flight simulation controls. It offers precise user adjustment options and the ability to hot swap between panels and controls for a customizable and efficient training experience.



**DCS edition**



**Trainer edition**

Base package combines several flight sim add-on modules. For compatibility refer to flight sim add-on kit configurations #2, #4, #6



**MSFS edition**

Base package combines several flight sim add-on modules. For compatibility refer to flight sim add-on kit configurations #4, #5



**Hybrid edition**

Base package combines several flight sim add-on modules. For compatibility refer to flight sim add-on kit configuration #1

# Master parts list

**⚠ Part list from 1 through 6 and images reference, refer to rudder pedal plate assembly manual booklet.**

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:  
⚠ All controls mounting bolts are installed upside down (bolt heads on floor side).
  - 4A. Thrustmaster TFRP and VirPil Torq
  - 4B. Logitech (Saitek)
  - 4C. MFG Crosswind
  - 4D. VKB T-Rudders Mk.IV
  - 4E. TPR, VirPil Ace Interceptor/Collection, Slaw Viper, Turtle Beach Velocity One
5. Vecro strips for rudder pedals not equiped with through holes or inserts.
6. Velcro ties for cable management (6)

## Yoke and throttle quadrant bracket kit, and hardware.

7. 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.
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
11. 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

**⚠ Use wrenches included in base package: Gen3 OpenWheeler sim racing cockpit:**

5mm Hex key; 8mm Hex key; 10mm combo flat wrench; 13mm combo flat wrench; 17mm combo flat wrench



**Neck support pillow in matching color.**



**SimFab**

Neck Pillow  
for Racing and Flight Sim Cockpits



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<https://bit.ly/simfabnpillow>

**Lumbar support pillow in matching color**



**SimFab**

Lumbar Pillow  
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# Rudder plate kit assembly

## 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)

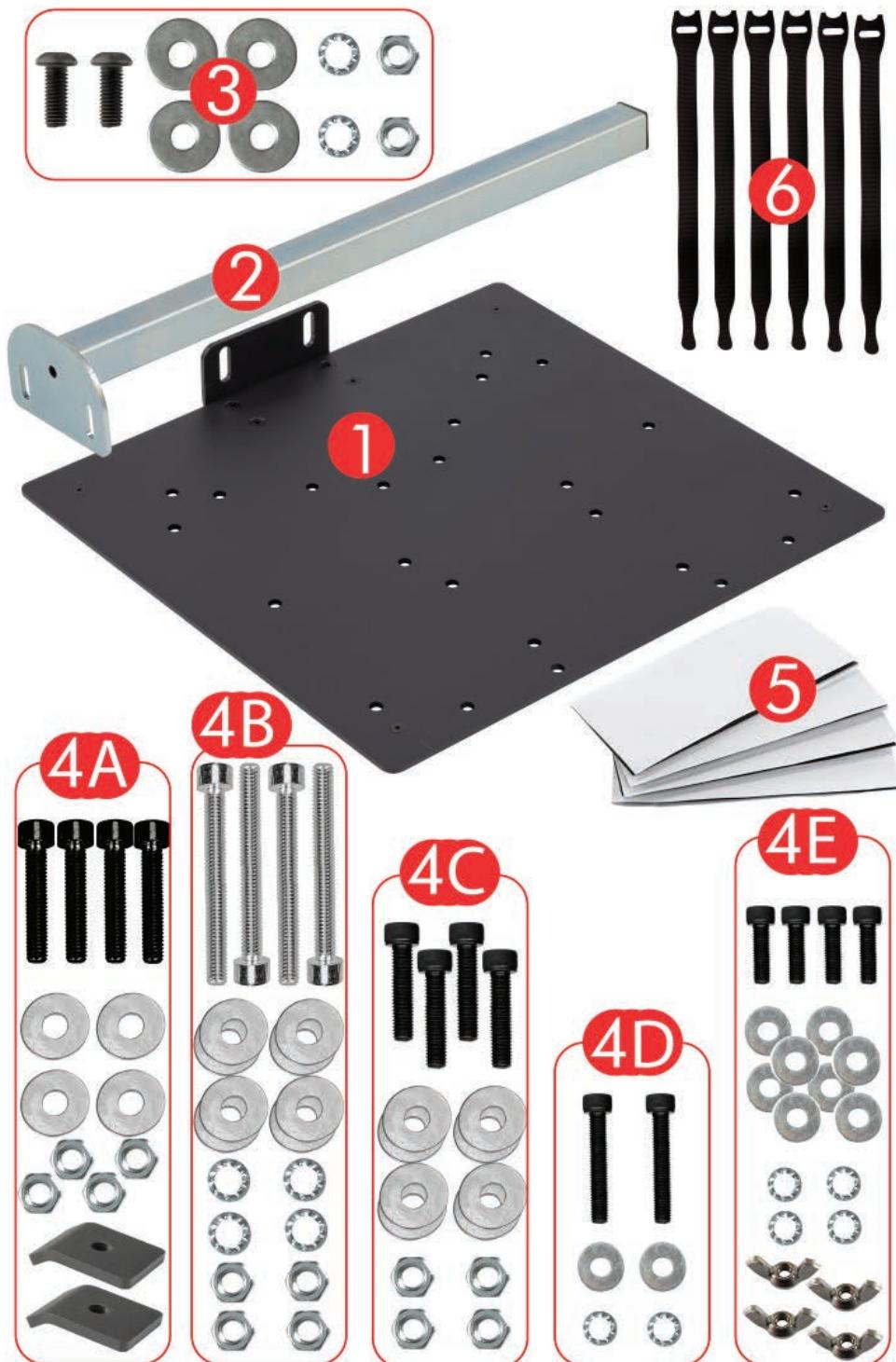
6. Velcro ties for cable management (6)

**⚠** Use wrenches included in base package cockpit.

\* 5mm Hex key

\* 10mm combo flat wrench

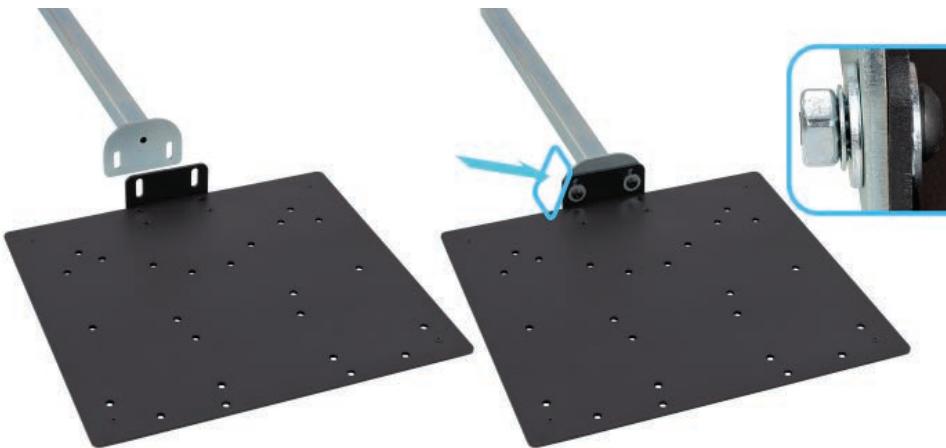
\* 13mm combo flat wrench



# Installation

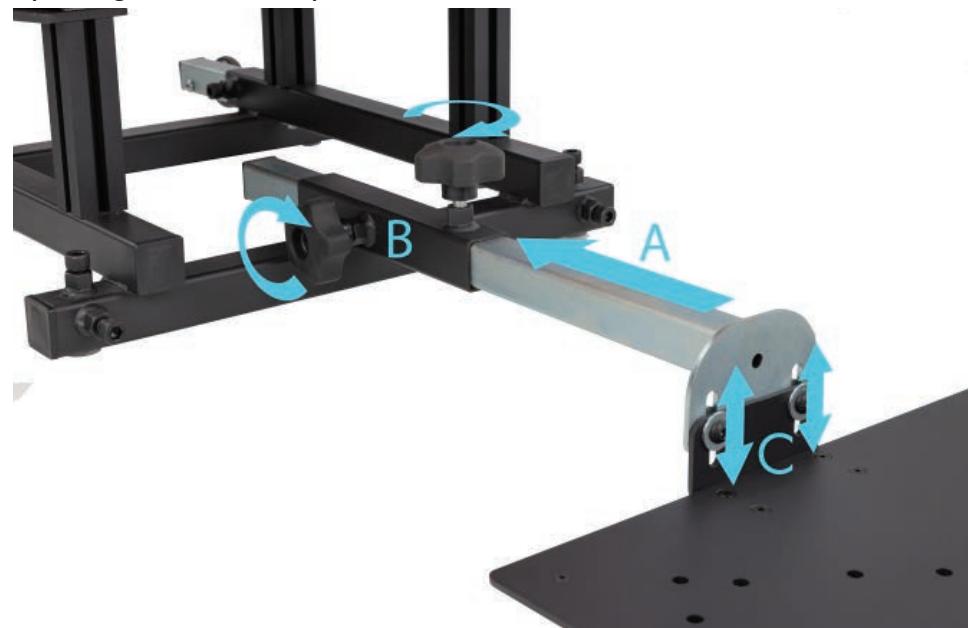
## Pedal plate and shaft assembly

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

Saitek/Logitech

ThrustMaster TFPR

ThrustMaster TPR

VirPil Ace Interceptor / Collection

VirPil Ace Torq

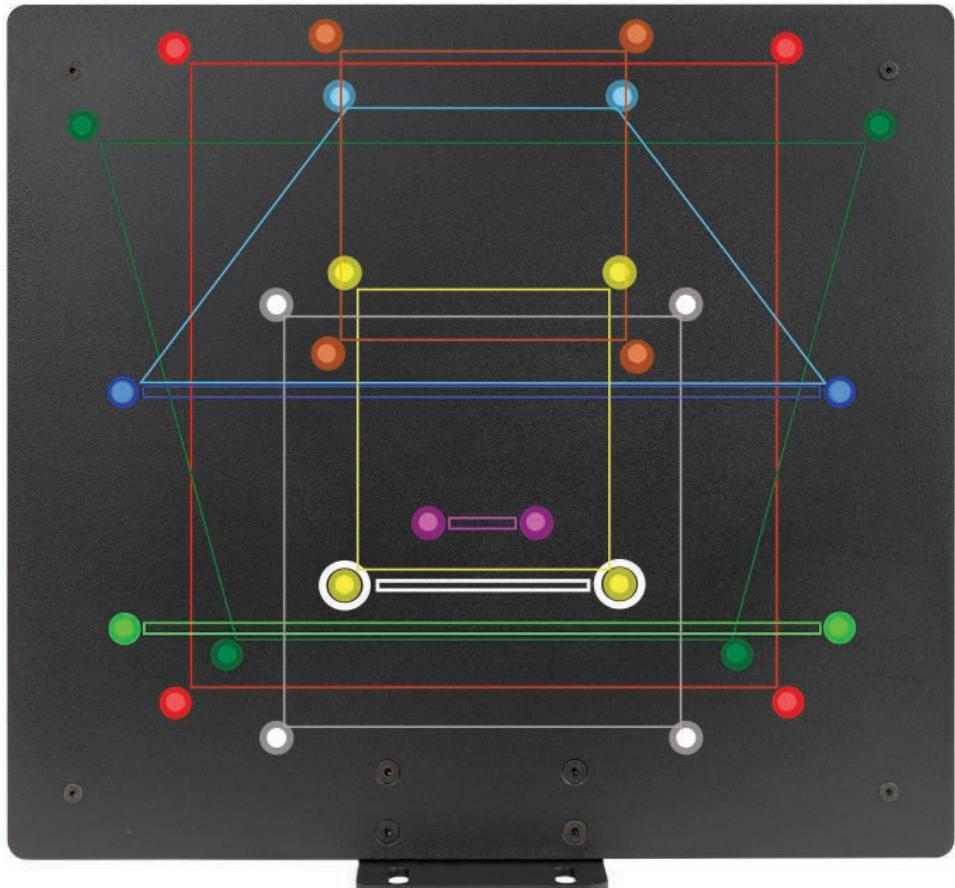
MFG CrossWind

VKB Sim and Turtle Beach Velocity One

CH Products - use Velcro strips

Slaw Device Viper

WinWing Skywalker



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.

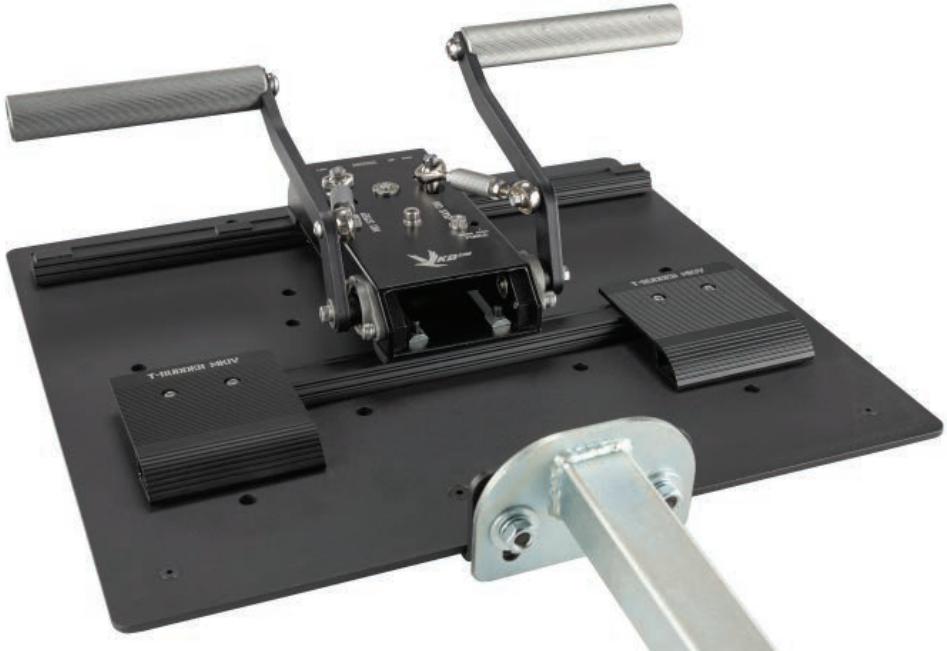
⚠ Use holding tabs and hardware to secure rudder pedals to plate.



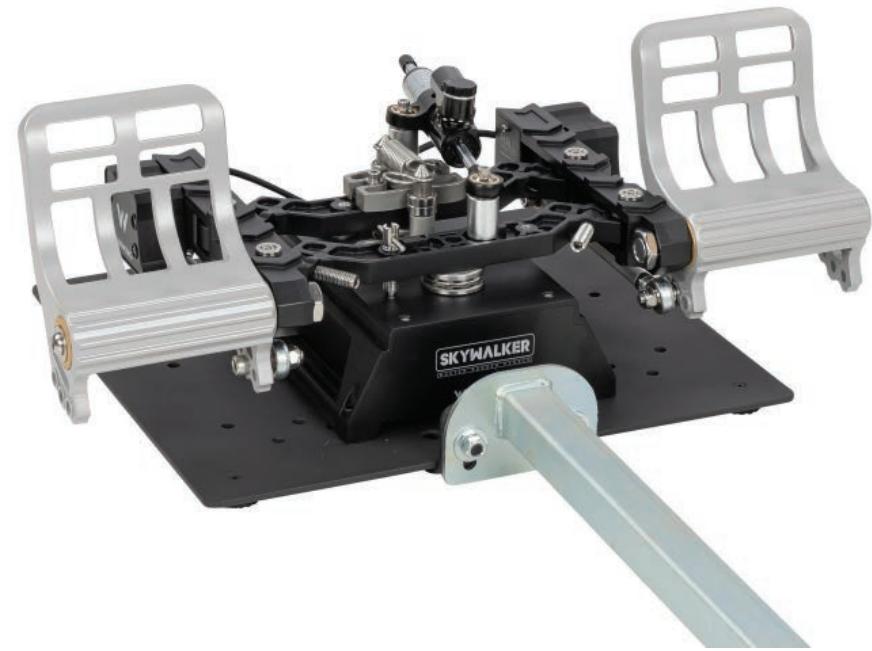
7. VKB T-Rudders Mk.IV rudder pedals.

⚠ 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.



## **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. (ADD REVERSE POST )**



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.





**Flight stick or additional accessory mounted on right hand side by using 4-way coupler**

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



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.



Slide in 4-way coupling on throttle quadrant shaft. Leave pre-installed set screws loose until additional control assembly with lower L bracket is set to proper position. 4way coupler can be installed behind or front of T-extension bracket.



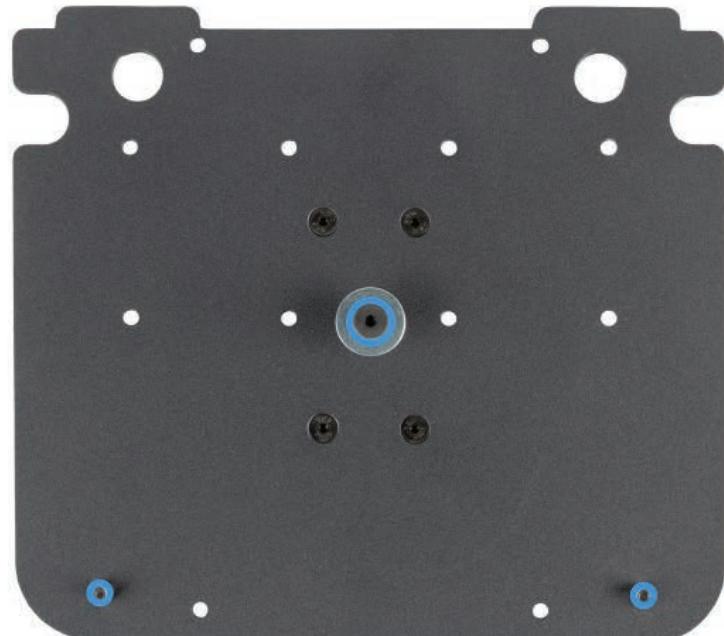
## Controls installation and mounting

⚠ 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 aluminum plates. Mounting principal is the same as factory plate.
- 1.3. Slide yoke and quadrant on the plate with centered mounted bolt/washer fitting into the control center key way.
- 1.4. Extend tension wheels until they nest into pre-assembled nuts on each plate. Adjust both wheels equally until plates are secured to the controls.

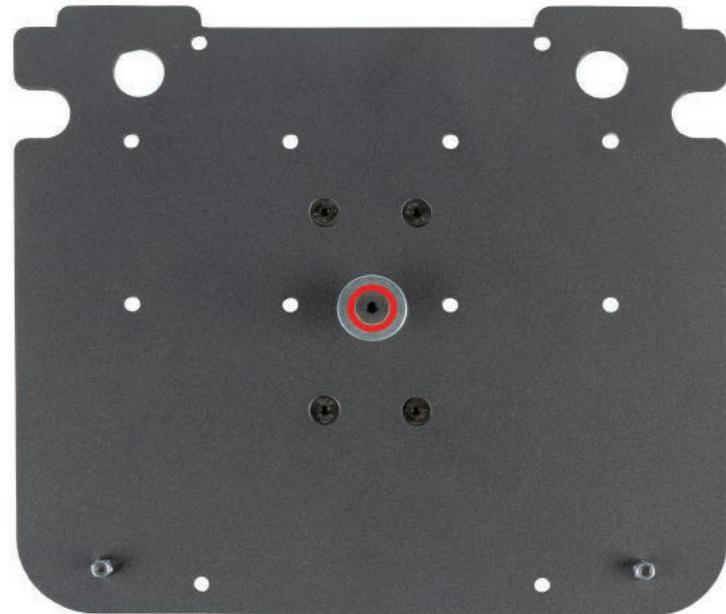




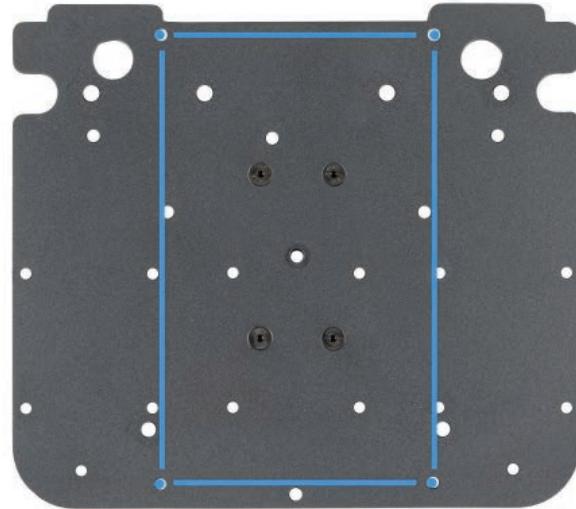
2. Logitech (Saitek) Yoke and quadrant installation



2.1. Remove pre-installed center bolt from plates.



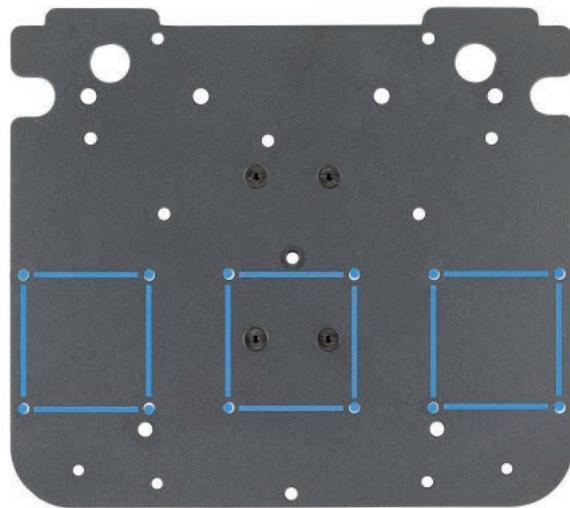
2.2. Use selected hardware (four bolts) to secure Logitech yoke to plate.



2.3. Use selected hardware (four bolts) to secure Logitech 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.

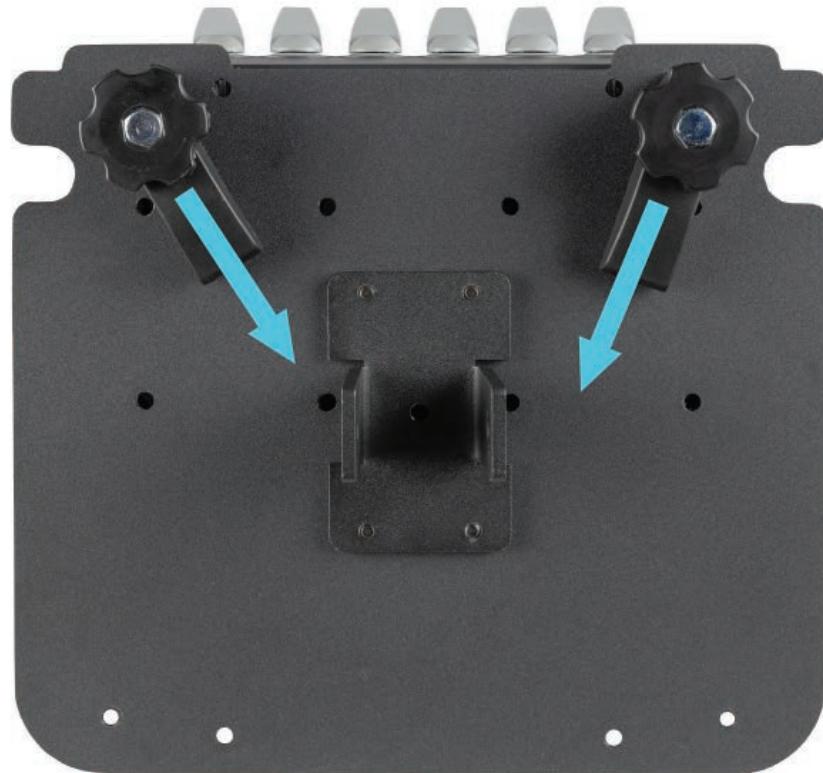
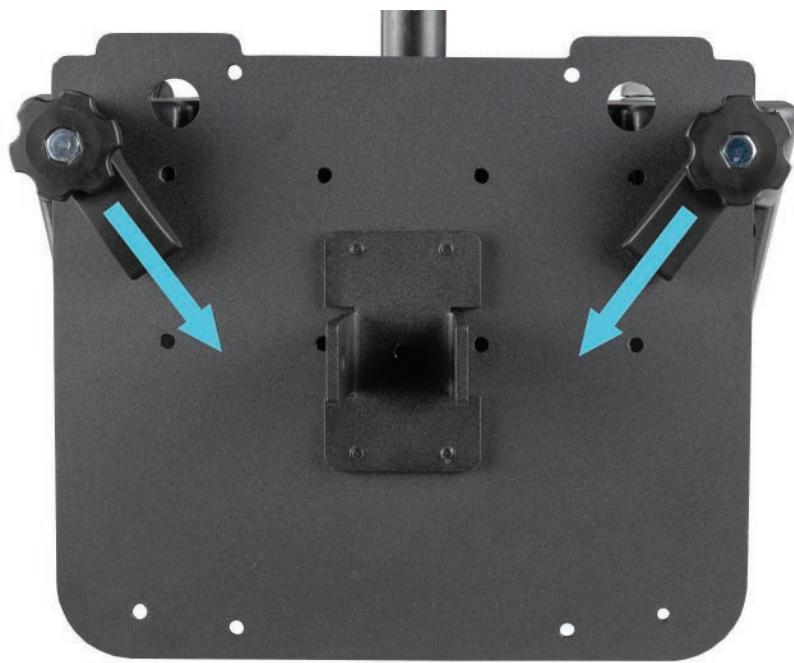


3.1. Remove factory clamps from yoke and quadrant.

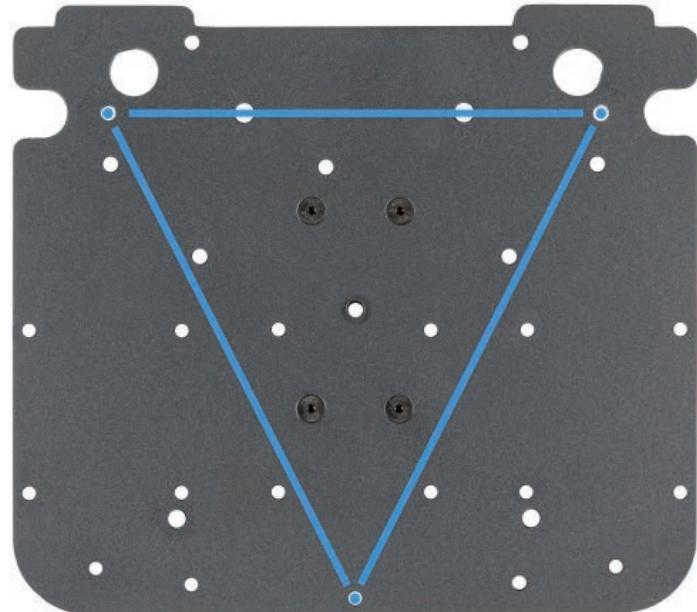
3.2. Install clamps through plate larger holes and tighten them down, pointing towards center of the plate.



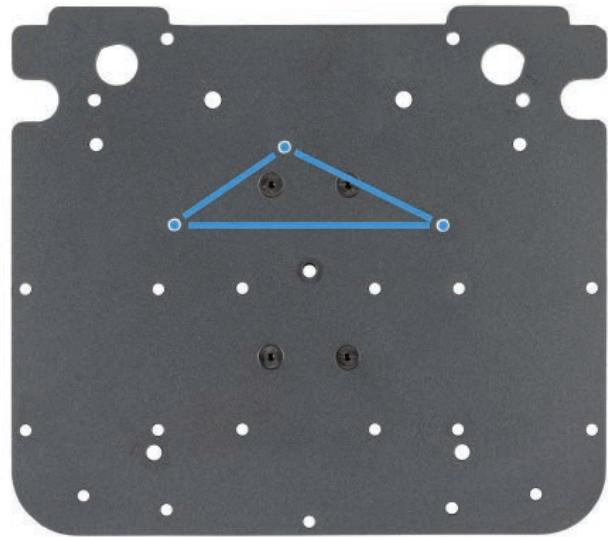
#### 4. Turtle Beach Velocity One yoke and quadrant installation



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 bracket kit, sold separate.

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



5. Thrustmaster TCA Boeing throttle installation.

**⚠️** Boeing yoke requires additional bracket, sold separate.

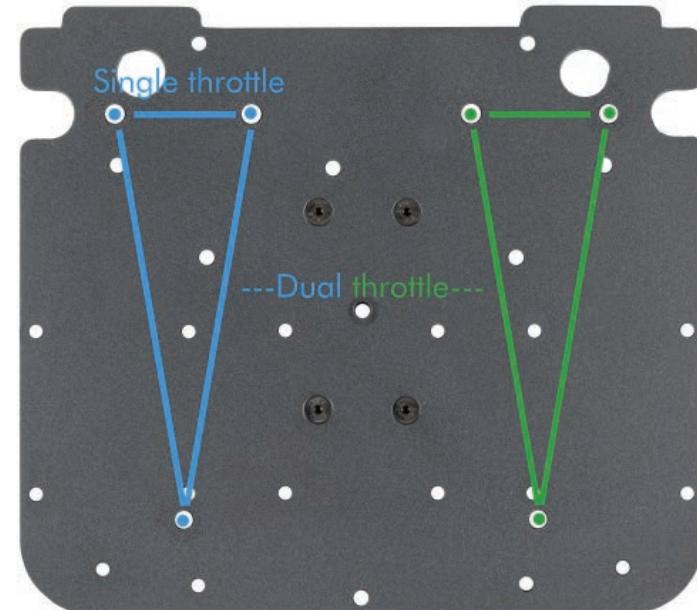
Single throttle



Dual throttle



5.1. Use left sets of holes for single throttle or both sets of holes for dual throttle.



## 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>

