

Flight Simulation Add-on Kit  
**Configuration #5A (Rudder plate not included)**  
**General And Commercial Aviation Package**  
Yoke/Quadrant/Rudder Pedals **MK2**  
Assembly Manual  
And  
Optional Accessories



Assembly instruction manuals available at:

V1.4 102924

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

by **SimFab<sup>®</sup>**.com

# WARNINGS:



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



Congratulations on your new flight pit simulation platform.

For more detailed information of all the features and endless driving or flight sim possibilities you can visit our official website at

[www.SimFab.com](http://www.SimFab.com)

Keep checking our online store for great gaming and sim racing deals and offers.

Best regards,

Team HomeRacer

Made by enthusiasts for enthusiasts.

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.

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](mailto:info@SimFab.com)

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## SimFab Modular Flight Simulation Concept And Design Intent

SimFab offers wide range of dedicated and specialized flight simulation pits with high level of fidelity, realism and immersion. While all our pits, attachments and brackets are designed, replicating real aircrafts layout we take in consideration maximum comfort, modularity and full compatibility with all established brands and controls makers on the current market.

SimFab modular flight pit concept starts with several basic models covering the essentials at most affordable budget, without compromising in quality and craftsmanship.

Base models are suitable for flight sim pilots entering the air field of flight simulation and looking to give it a try at affordable cost. Each of our models has modular design, all upgradeable and interchangeable with one another, including sim racing setup.

Our base models are purposed for type of flight simulation as well as types of flight controls sharing similar attachment design.

SimFab introduces three base models as follows:

Civil aviation modular pit, **MSFS edition**.

Civil, combat and space sim modular pit, **hybrid edition**.

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



**DCS edition**



**Hybrid edition**

For compatibility refer to flight sim add-on kit configuration #2

For compatibility refer to flight sim add-on kit configuration #1

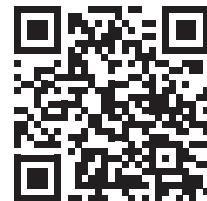


**MSFS edition**

For compatibility refer to flight sim add-on kit configuration #5



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<https://bit.ly/dd-conversionkit>

**DD sim racing conversion kit**

**Convert your flight sim pit to sim racing setup  
and hot swap between each setup in seconds**

# 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 (horizontal bar)
12. Knobs and bolts (pre-installed to both posts #8)

**⚠ 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  
for Racing and Flight Sim Cockpits



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<https://bit.ly/simfablpillow>



**Low frequency tactile transducer (bass shaker) universal bracket**

Bring your racing sim experience to another level by adding a low frequency tactile transducer (bass shaker) to your SimFab rig. Bass shaker mount bracket is designed to provide universal fit for most bass shakers on the market such as all models ButtKicker, AuraSound or DaytonAudio or other brands.

Easy mount on either corner of seat frame.

Solid metal to metal connection for optimum vibration transfer.

Optional, install a pair of bass shakers for stereo effect on both sides of seat frame.

Optional, install shaker brackets at back of the frame. Install rolling wheels to shaker brackets.

**SimFab**

Universal Bracket  
for Bass Shaker (Single)



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<https://bit.ly/simfabshaker>



#### 4 Point Seat Harness



**SimFab**  
Racing and Flight  
Simulation Cockpit Four  
Point Harness



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<https://bit.ly/simfab4harness>



- Add immersion into the Virtual Reality
- Available in black, red, blue, orange, green, yellow and camo
- Easy release cam lock buckle
- Soft pads and mounting hardware included

#### Thrustmaster TSSH Sparco HandBrake Mode Mounting Bracket



**Dual Sparco Handbrake With Sequential  
Shifter Combo Mounting Plate**



## Mounting bracket kit for 14/64 bit USB generic handbrake

Generic handbrake is inexpensive handbrake offered by various vendors on Amazon.com or other marketplaces.

Handbrake and bracket work in combination with any major brand manual shifter: Logitech, Thrustmaster, Fanatec

 Bracket fits only the type handbrake as shown.



 Using seat lift kit in flight sim setup is highly recommended for optimum flight pit seating position.

### SimFab

DCS Flight Sim Modular Cockpit



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<https://bit.ly/simfabdcsc>



### SimFab

MSFS Flight Sim Modular Cockpit



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<https://bit.ly/simfabmsfs>

**Flight Sim add-on configuration #3, centered stick standard mount bracket. Requires either configuration #1 or Configuration #2.**

Centered stick standard mount bracket provides quick and convenient conversion from racing wheel to flight stick by sharing same steering post. While config. #3 can be used in combination with either config. #1 or #3 we recommend it for #1 where stick base height adjustment is not necessary below knee level.



Configuration #1 + #3  
Thrustmaster T.Flight



Configuration #3

**SimFab**  
Flight Sim Configuration  
#3 HOTAS Add-on Stick  
Center Bracket Kit



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<https://bit.ly/simfabhotascenterstick>



Configuration #2 + #3  
Thrustmaster Warthog

**Flight Sim add-on configuration #4, rudder pedals plate.**

Configuration #4 consists of dedicated rudder pedal plate and shaft connected to seat frame. Rudder pedals are optional for lower end flight sticks within configuration #1 family, with built in yaw movement by twisting flight stick grip. Rudder pedal plate is required with higher end flight controls within configuration #2 family where rudder pedals are used for yaw movement and ground braking. Rudder pedal plate is pre-drilled to accept all rudder pedals hard mounted. Included in the package is various mounting hardware compatible with the following rudder pedals:

1. Thrustmaster TFPY
2. Thrustmaster TPR
3. Logitech Pro Flight
4. CH Products
5. VirPil, MFG Crosswind
6. VKB
7. Slaw device

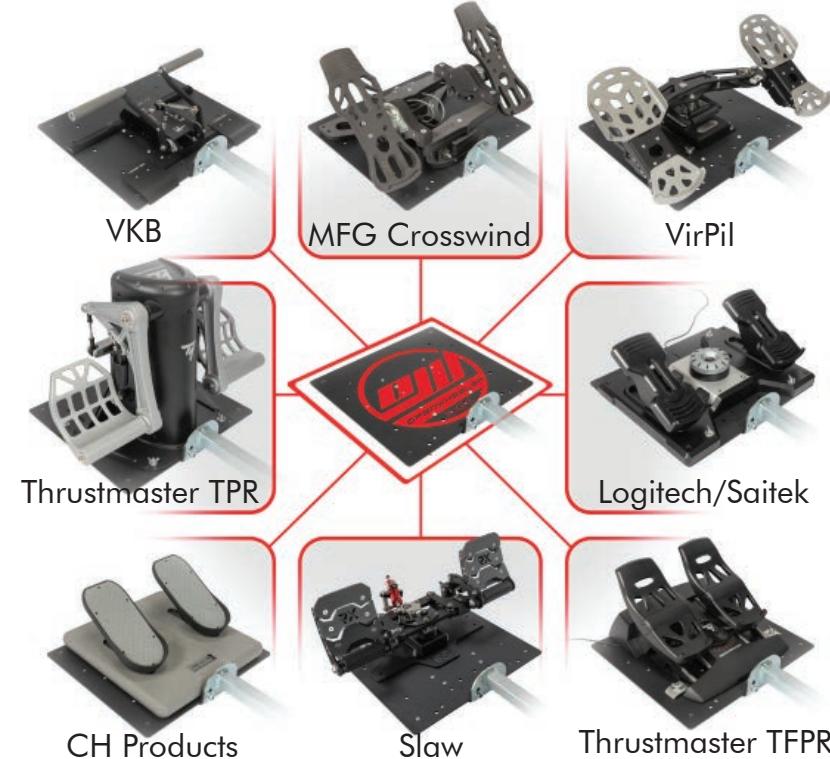
**SimFab**

Flight Sim Configuration  
#4 HOTAS Add-on  
Rudder Pedal Plate Kit



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<https://bit.ly/simfabrudderplate>



## Flight Sim add-on configuration #5, general, civil and commercial aviation simulation package.

Configuration #5 consists of rudder pedal plate (config. #4), mounting brackets and adapter plates for various yokes and throttle quadrants. Our proprietary design of how controls are being mounted unifies adapter plates for all leading brands yokes and throttle quadrants with maximum rigidity and leg clearance.

Configuration #5 is compatible with the following yokes and throttle quadrants:

1. Honeycomb Alpha yoke and Bravo throttle quadrant
2. Turtle Beach Velocity One yoke and throttle quadrant
3. Logitech/Saitek yoke and single/dual throttle quadrant with optional Flight Velocity Trim Wheel
4. CH Products yoke and throttle quadrant

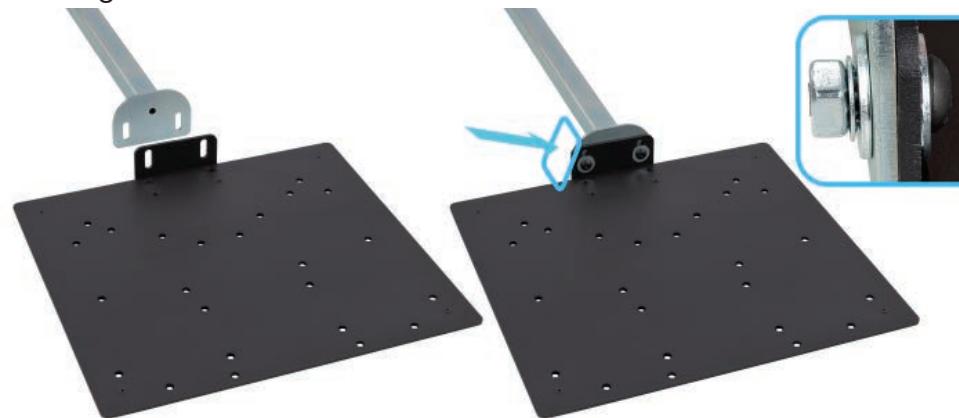
**⚠ Thrustmaster TCA yoke and single/dual quadrant Boeing edition requires separate kit.**



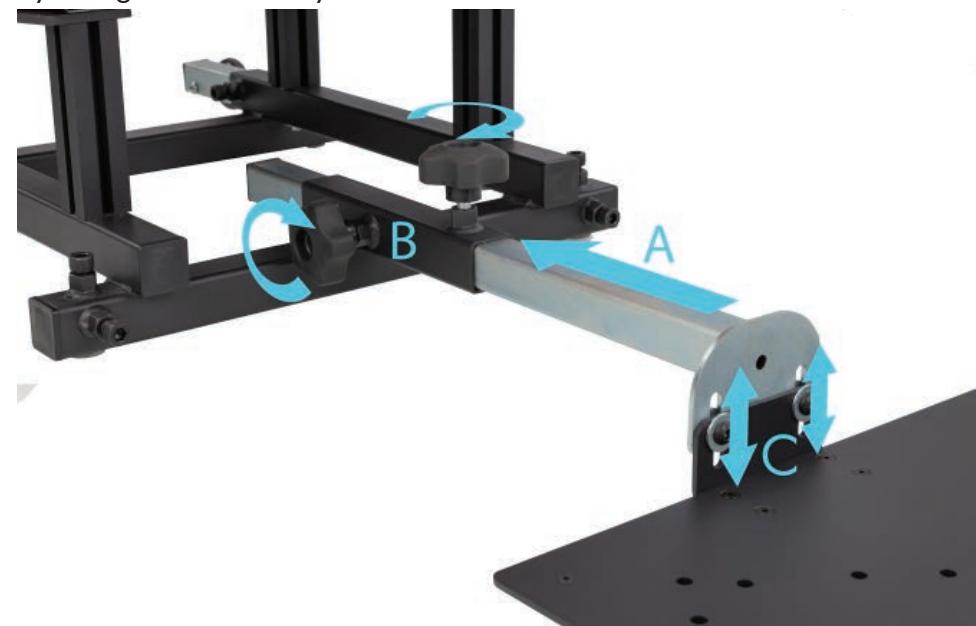
## Installation

### Pedal plate and shaft assembly (Pedal plate kit is not included in configuration 5A)

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 mounting bolts are installed upside down (bolt heads on floor side).



### Rudder pedals mounting pattern

Saitek/Logitech

ThrustMaster TFPF

ThrustMaster TPR

VirPil Ace Interceptor / Collection

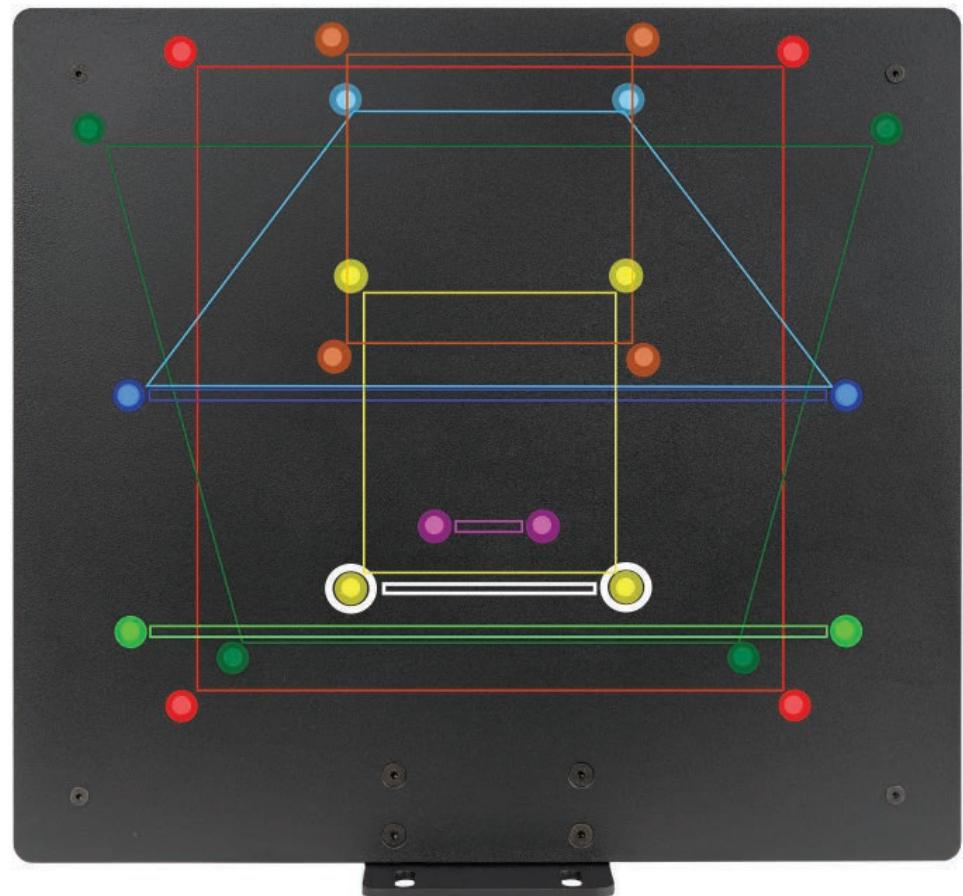
VirPil Ace Torq

MFG CrossWind

VKB Sim and Turtle Beach Velocity One

CH Products - use Velcro strips

Slaw Device Viper



4. Thrustmaster TFP 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 rudder pedal plate.



6. VirPil Torq rudder pedals holding tabs installation.  
⚠ Use holding tabs and hardware to secure rudder pedals to plate.

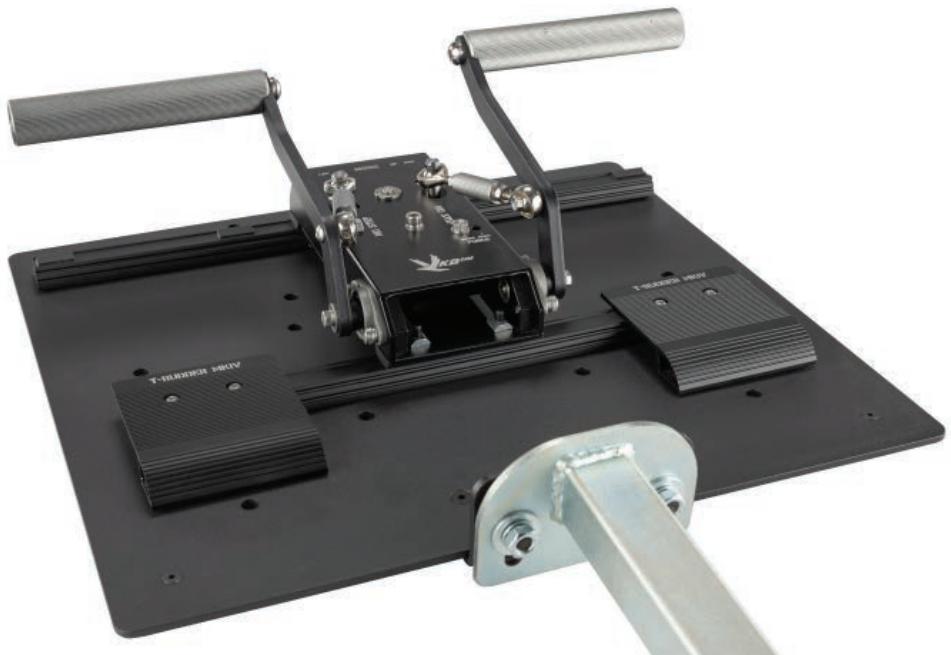


## 7. VKB T-Rudders Mk.IV rudder pedals.

**⚠ 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



## **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.



## Controls installation and mounting

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

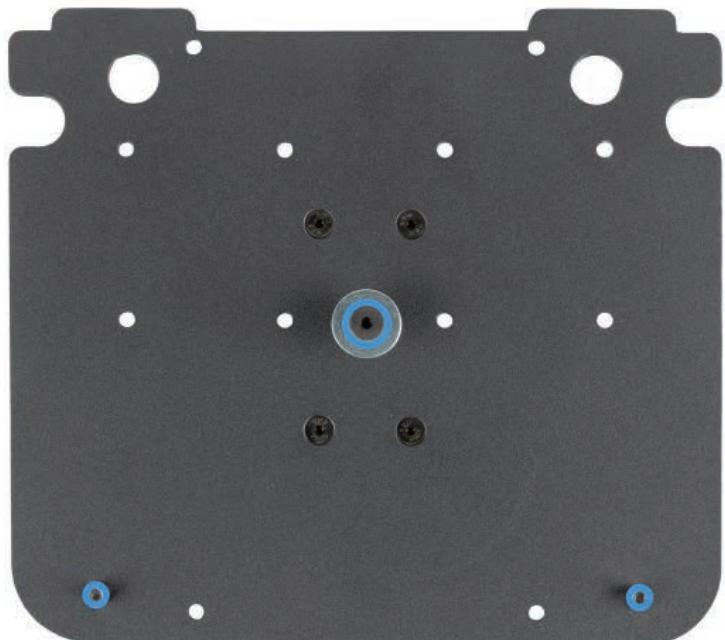
### 1. Honeycomb Alpha yoke and Bravo quadrant installation.



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.



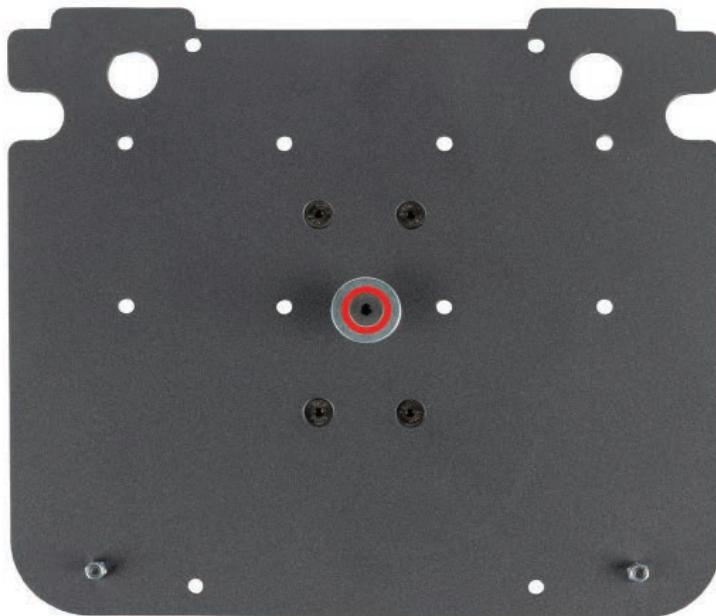
- 1.1. Transfer controls from factory plastic plate to OpenWheeler aluminum plates. Mounting principal is the same as factory plate.
- 1.3. Slide yoke and quadrant on the plate with centered mounted bolt/washer fitting into the control center key way.
- 1.4. Extend tension wheels until they nest into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



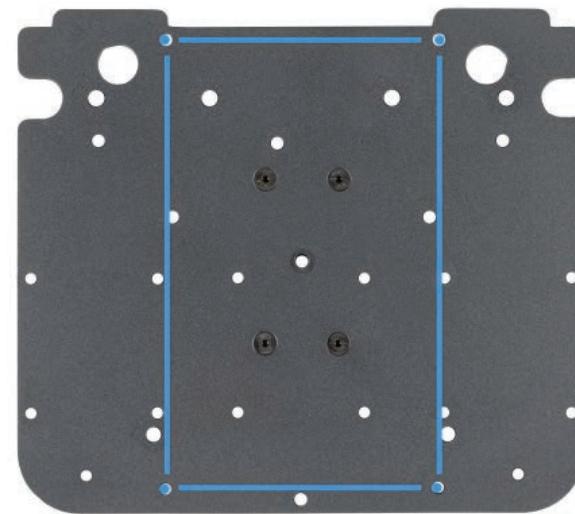
## 2. Logitech (Saitek) Yoke and quadrant installation



2.1. Remove pre-installed center bolt from plates.



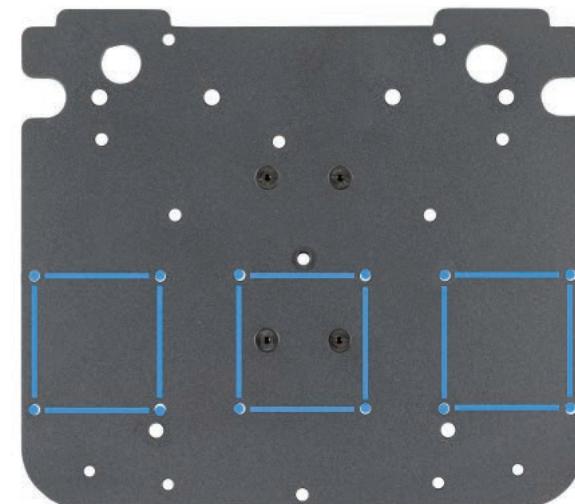
2.2. Use selected hardware (four bolts) to secure Logitech yoke to plate.



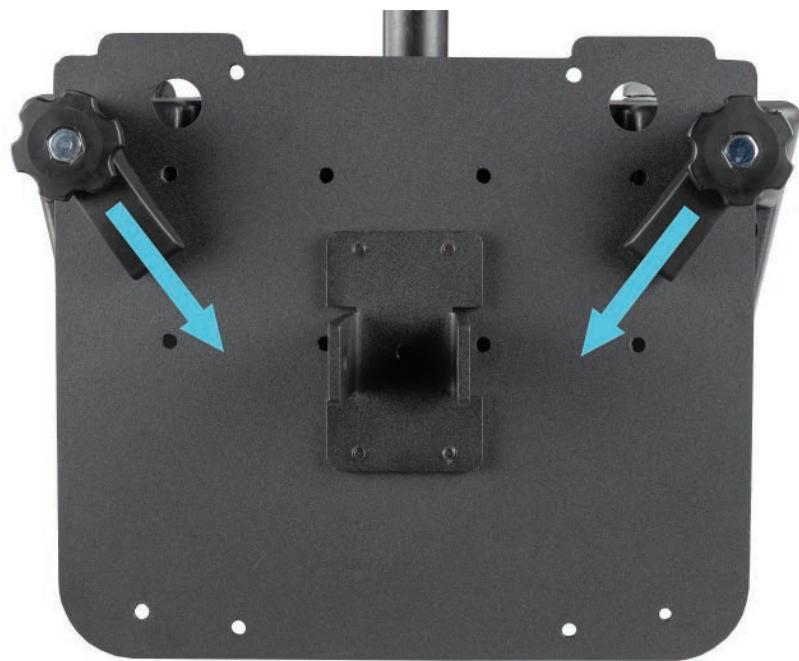
2.3. Use selected hardware (four bolts) to secure Logitech throttles to plate: single, dual or dual with Flight Velocity trim wheel.

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

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

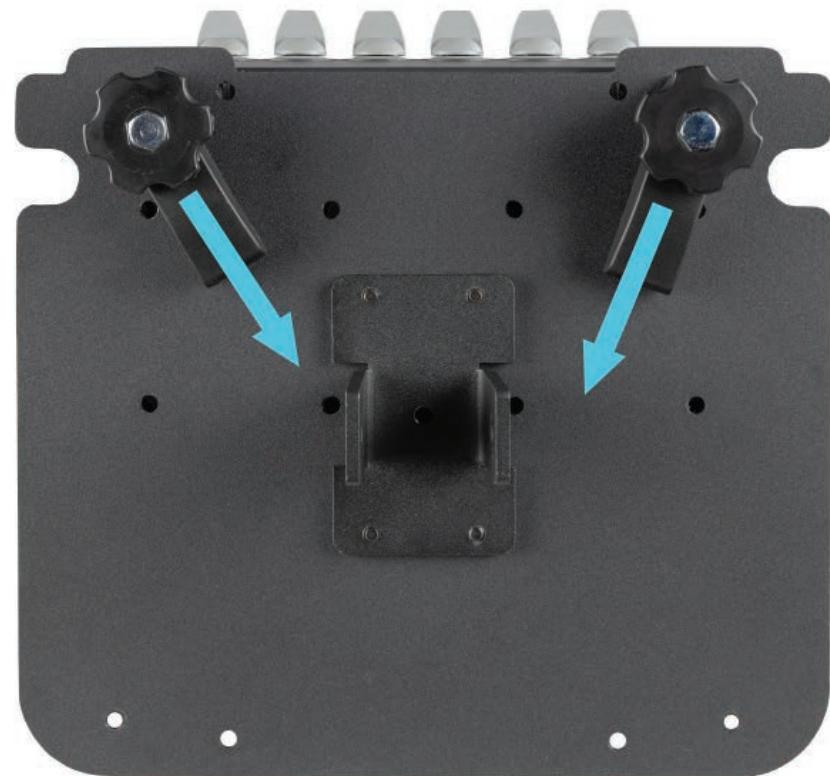


### 3. CH Products Yoke and quadrant installation.



3.1. Remove factory clamps from yoke and quadrant.

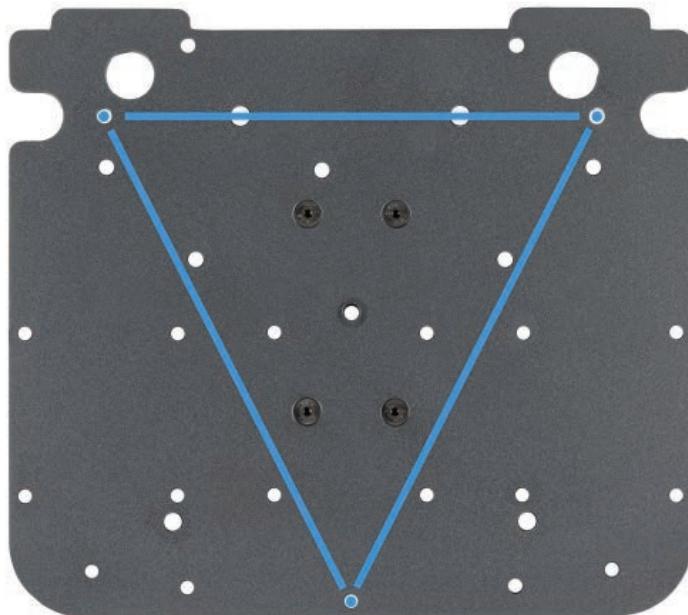
3.2. Install clamps through plate larger holes and tighten them down, pointing towards center of the plate.



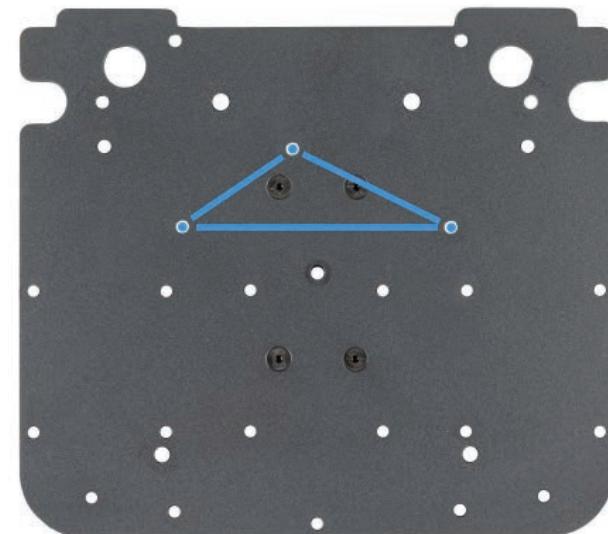
#### 4. Turtle Beach Velocity One yoke and quadrant installation



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>



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## 5. Thrustmaster TCA Boeing throttle installation.

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

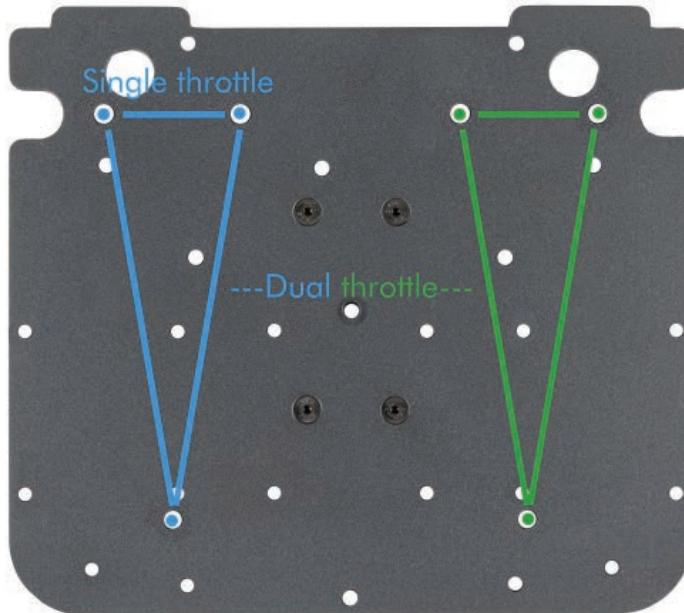
Single throttle



Dual throttle



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



## 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>

