

Flight Simulator Add-on Kit  
**Configuration #10**  
Advanced Modular Side Mount "AMSM"  
And  
Optional Accessories



Assembly instruction manuals available at:

V2.3 051925

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

by **SimFab<sup>®</sup>**

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)

## WARNINGS:



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



### WARNING

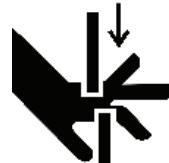


**Choking hazard, small parts. Not for children under 5 years old.**



### WARNING

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



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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.



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**



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

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.



**Trainer edition**



**MSFS edition**

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

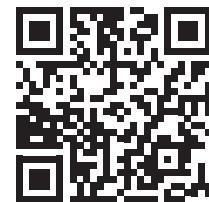


### Hybrid edition

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



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<https://bit.ly/simfabddkit>

### DD sim racing conversion kit

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

Requires Gen3 base chassis.

## Modular flight pit add-ons Introduction

**⚠ Please read introduction carefully in order to understand modular design concept and learn about available flight sim options (configurations).**

We have incorporated simplicity, dynamic adjustment and rigidity, making your conversion effortless between different flight sim setups or sim racing, and vice versa. All controls are hard-mounted for maximum strength, handling the most aggressive pilot there is.

Our flight sim mounting brackets are compatible with all brands such as Thrustmaster, Saitek, CH Products, Logitech, VKB, WinWing, MFG, VirPil, Turtle Beach, Honeycomb, Slaw and others. We constantly update our designs, mounting patterns and hardware along with all newly introduced flight sim controls. For controls not mentioned within the list, please reach out to us for additional instructions or custom solutions.

We offer several flight sim add-on options based on commonly used and most desired setups, so called "**configurations**". Order of configuration numbers is based on the time of which each was developed, where some options can be used independently such as configurations #1, #2, #5, #8 and rest configurations compliment the flight setup depending on controls being used. All configurations are offered as "Add-on" kits as they require base model cockpit. Dedicated flight pits include group of said configuration as specified.



**Flight sim Add-on configuration #1, combat or commercial aviation flight sim HOTAS style, side by side mounted throttle and stick.**

Brackets and adapter plates are compatible with the following brands and models flight sim controls:

1. Logitech/Saitek X52, X52 Pro, X56
2. Thrustmaster T16000M stick and throttle
3. Thrustmaster HOTAS T.Flight stick and throttle
4. Thrustmaster TCA Airbus
5. Hori stick and throttle
6. CH Products stick and throttle
7. VKB Gladiator Stick
8. Turtle Beach Velocity One Stick

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## Flight Sim add-on configuration #2, combat aviation flight sim HOTAS style, side by side mounted throttle and stick.

Brackets and adapter plates are compatible with the following brands and models flight sim controls:

1. Thrustmaster Warthog stick and throttle
2. VirPil Sticks, throttles, control panels
3. WinWing stick bases and Orion throttle
4. VKB Gunfighter stick



<https://bit.ly/simfabhotas>



## 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.



<https://bit.ly/simfabhotascenterstick>



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Configuration #3



Configuration #2+#3  
Thrustmaster Warthog

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

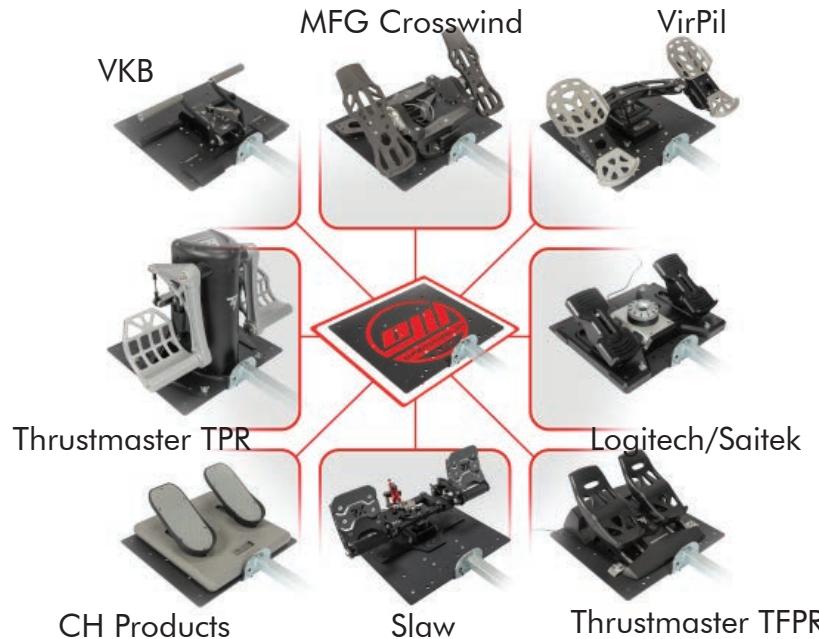
Configuration #4 consists of dedicated rudder pedal plate and shaft connected to seat frame. Rudder pedals are optional for lower end flight sticks within configuration #1 family, with built in yaw movement by twisting flight stick grip. Rudder pedal plate is required with higher end flight controls 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. VKB
2. MFG Crosswind
3. VirPil Ace Flight/Torq/WarBrd
4. Thrustmaster TPR/TFPR
4. Logitech Pro Flight
5. CH Products
6. Slaw device
7. WinWing Skywalker

<https://bit.ly/simfabrudderplate>



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## Flight Sim add-on configuration #5, 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.

<https://bit.ly/simfabcommers>



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## Flight Sim add-on configuration #6, centered flight stick lower mount bracket.

Configuration #6 is a specially designed bracket for flight sticks with need of precise and long range of height adjustment. Lower mount bracket provides lowest height level of adjustment of stick base to accommodate flight sticks typically within configuration #2 with removable grips, where grip extension is added between standard grip and stick base. Major benefits are precise height placement of stick grip in accordance with various grip extensions for better stick control or when grip is used as helicopter simulation cyclic. Lower mount bracket can be used whether stick grip is used with extension or without.

**⚠** Kit does not include adapter plates. Adapter plates are included in Configurations #1 and #2

Typically used (not limited to) with following flight sticks:

1. Thrustmaster Warthog stick
2. VirPil Sticks
3. VKB Gunfighter stick
4. WinWing Super Libra Stick



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[https://bit.ly/  
simfablowerstick](https://bit.ly/simfablowerstick)



## Flight Sim add-on configuration #7, flight stick grip extension kit.

Proprietary design grip extension kit offering full range of grip extension from 2.75" (70mm) short to 7.5" (190mm) long. Package includes adapters, extensions, extension cables and all hardware, ready to use right out the box. All anodized and machined billet aluminum for light, and yet strongest material.

Grip extension is compatible with the following stick grips:

1. All Thrustmaster Warthog based grips
2. VirPil stick grips
3. WinWing stick grips



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[https://bit.ly/  
simfabgripext](https://bit.ly/simfabgripext)



**Total of 70mm to 190mm (2<sup>3/4</sup> - 7<sup>1/2</sup> in.) grip extension  
all in one kit**

## Flight Sim add-on configuration #8

Complete package for GA aviation, Thrustmaster TCA Boeing

Edition: yoke, throttle quadrant, rudder pedals

configuration #9

Thrustmaster TCA Boeing yoke bracket only



**Complete package**

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<https://bit.ly/simfabboeingcompl>

**Yoke bracket only**

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<https://bit.ly/simfabboeingbronly>

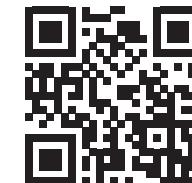
## Flight Sim add-on configuration #10

Advanced Modular Side Mount "AMSM"

Compatible with WinWing Super Taurus throttle, take off / combat panels, VirPil control panels.



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<https://bit.ly/simfabamsm>

## Flight Sim add-on configuration #10A

### Vertical panel left/right side with single control

Compatible with update list from 10a plate



### Flight Sim add-on configuration #10B



## Flight Sim add-on configuration #11

### Helicopter Collective Universal Mount Bracket

Compatible with WinWing, VirPil and Komodo helicopter collectives



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<https://bit.ly/hellicollective>

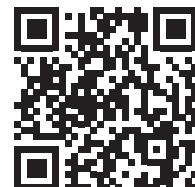
## Flight Sim add-on configuration #12

### Main Instrument Panel: MFD/UFC/ICP/HUD Holder

Compatible with WinWing MIP F18, Thrustmaster Cougar MFDs, SimGears ICP



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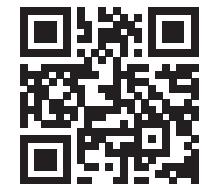


<https://bit.ly/maininstpanel>

## Flight Sim add-on configuration #13

### Advanced Modular Side Mount

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<https://bit.ly/amsm>



## Flight Sim add-on configuration #14

Extended upper L bracket for dual side control mount



Included in the kit  
is adapter plate  
of choice with  
appropriate controls  
mounting hardware



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<https://bit.ly/UpperL>

## **Transition and hot swap between sim racing controls and flight sim controls.**

Hot swap side controls when using flight sim configurations #1 by releasing quick connect knobs holding upper L bracket with each control permanently mounted on its designated upper L bracket.

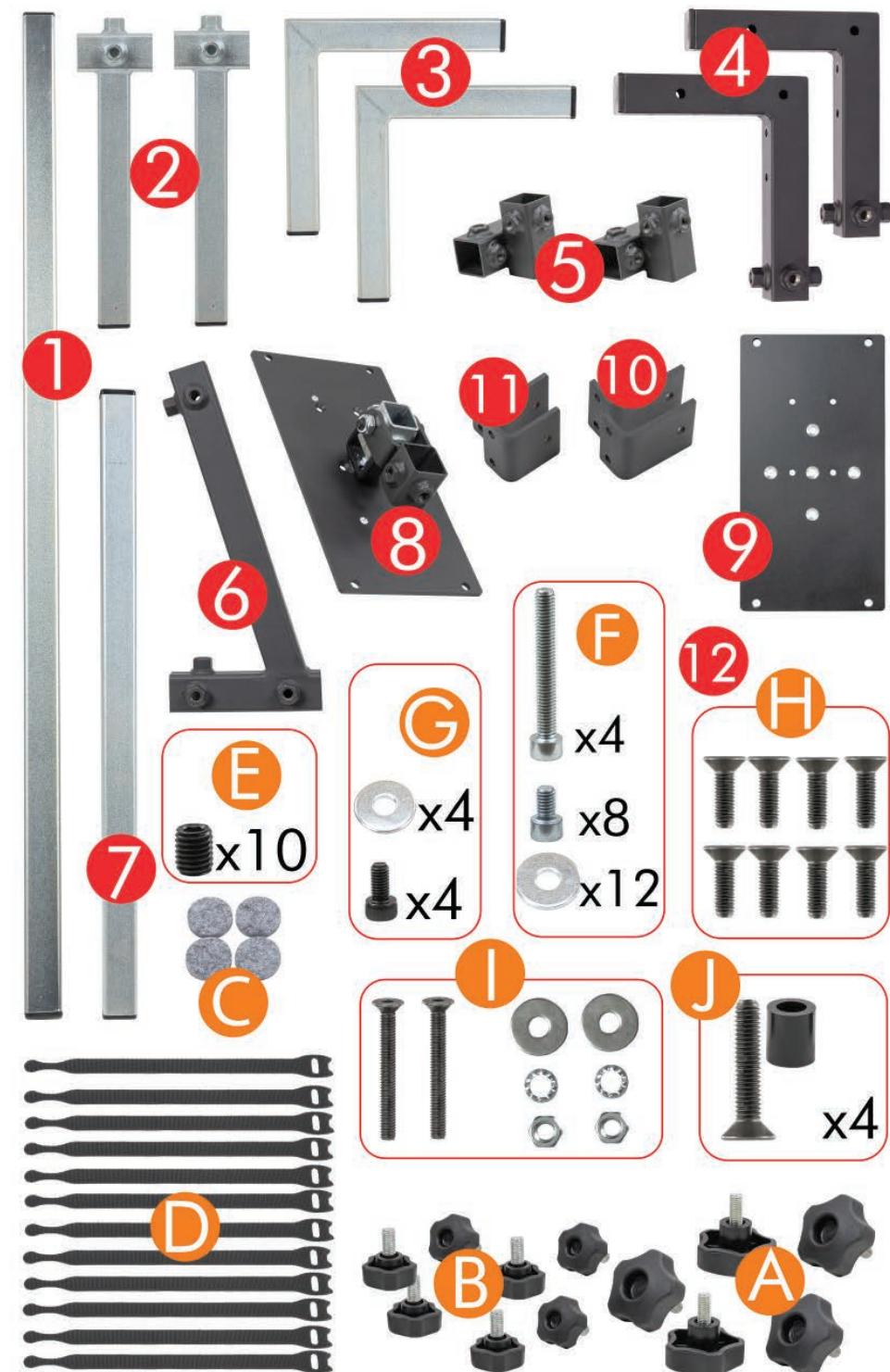


Hot swap entire front chassis between sim racing and flight sim when using center mounted stick and rudder pedals plate



## Parts list

1. Side main rail
  2. T-extension bar (2)
  3. Short lower L bracket (2)
  4. Upper L bracket (2)
  5. 4way coupler (2)
  6. Upright post
  7. Vertical bar
  8. Take off / combat ready plate assembly
  9. VirPil control panel plate behind throttle
  10. Winwing Super Taurus throttle long mount bracket tabs (2)
  11. Winwing Super Taurus throttle short mount bracket tabs (2)
  12. Hardware
    - A. Large quick release knobs (5)
    - B. Small quick release knobs (7)
    - C. Felt pads (4)
    - D. Cable management tie wraps (12)
    - E. M10x12mm set screws (10)
    - F. WinWing Super Taurus mounting hardware:  
**M6x45mm bolts (4), M6x10mm bolts (8), Wide washers (12)**
    - G. WinWing take off / combat ready panels mounting hardware  
**M5x10mm bolts (4), M5 wide washers (4)**
    - H. VirPil control panel #1 & #2 mounting hardware  
**M5x14mm bolts (8)**
    - I. Control panel behind throttle, plate to upper L bracket mounting hardware
    - J. WinWing Pilot Take Off Panel V2 (PTO2) hardware  
**M5x20mm countersink bolts (4), 10mm nylon spacers (4)**
    - K. M6x50mm bolts (2), washers (2), lock washers (2), nuts (2) (not illustrated)
- Required tools included in base package SimFab cockpit, not included in this kit
1. 17mm open wrench
  2. 10mm open wrench
  3. 8mm Allen key
  4. 5mm Allen key
  5. 4mm Allen key



## Installation

### 1. Hardware pre-intsallation by hand.

1.1. Pry out seat frame left side end caps and replace bolts with small knobs located on top welded nuts.

 Adjacent side bolt is not necessary.



1.2. Stick felt pads to bottom/center surface of T-extension bars and pair to bottom surface to each end of upright post.



1.3. Install small knobs to top welded nuts of T-extension bars, small knobs to lower and upper sides of upright post, large knobs to post front welded nuts.



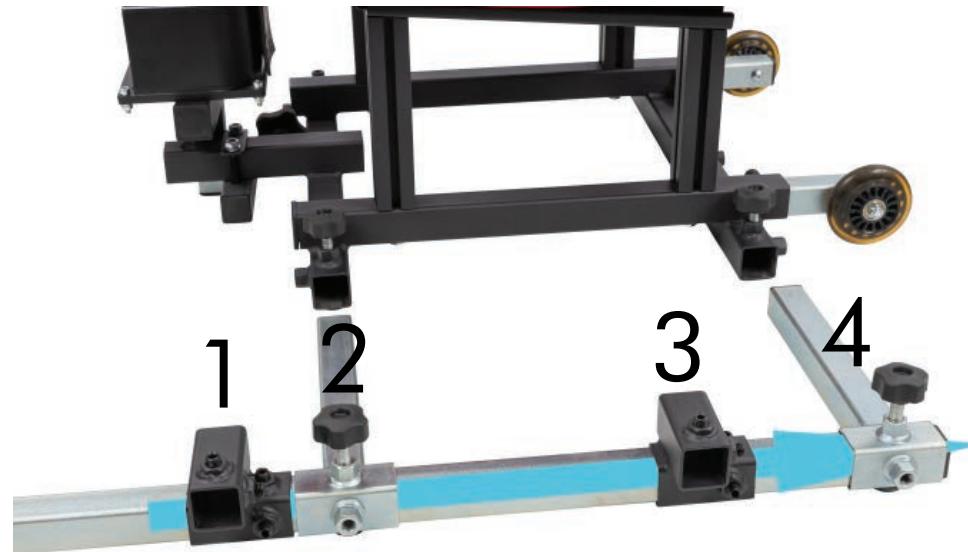
1.4. pre-install couple turns in all set screws: 4 to each 4way coupler, 2 to take off/combat panel, plate assembly pivoting adapter.



2. Slide parts to side rail in the following order:

1: T-extension, 2: 4way couple, 3: T-extension, 4: 4way coupler.

 Ensure 4way couplers are installed in the direction as shown. Leave all knobs and set screws loose.



### 3. Installation and alignment of side rail assembly.

A. Slide T-extensions to seat frame.

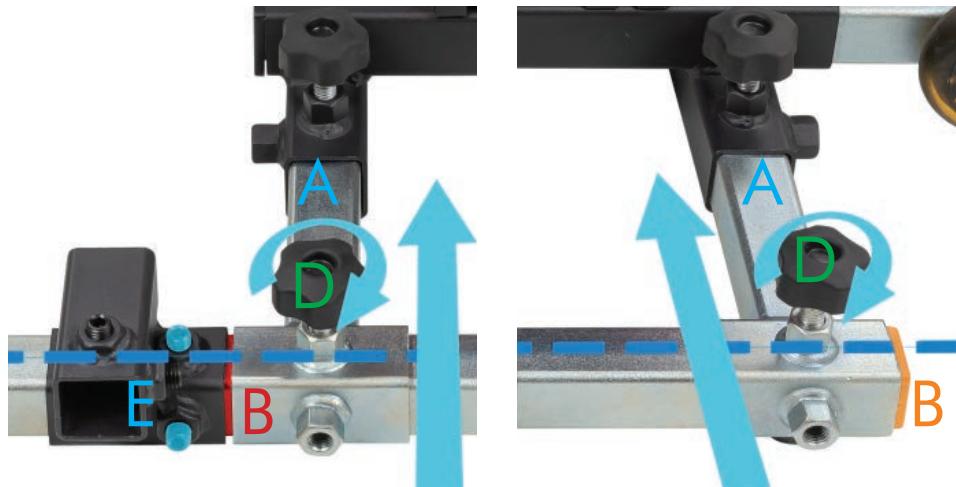
B. Align side rail tube rear end cap with edge of rear T-extension.  
Adjust front 4way coupler next to front T-extension.

C. Measure equal distance at front and rear T-extensions and ensure parallel relation between side rail and seat frame.

D. Tighten down knobs on T-extensions to side rails.

E. Tighten down pair of set screws on front 4way coupler to side rail.

⚠ Leave all rest hardware loosen, detach side assembly from seat frame, and continue with assemblies on it.



4. Slide lower L brackets all the way into 4way couplers and tighten both pairs of set screws securing L brackets to couplers.



5. Slide upright post to side rail front end and tighten lower large knob **first**, then pair of lower/side small knobs **second**.

⚠ Do not over tighten knobs to avoid damage.



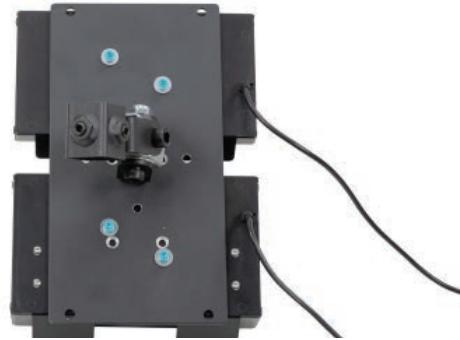
6. Slide vertical bar to post and tighten large knob **first**, small side knob **second**.

⚠ Do not over tighten knobs to avoid damage.



7. Install WinWing take off/ combat panels to plate by using included M5 bolts and washers.

**⚠** Do not over tighten controls mounting bolts to avoid stripping controls insert riv-nuts.



8. Slide take off/combat panel to vertical bar at top end and tighten pivoting bracket set screws



## 9. WinWing Super Taurus throttle installation

9.1. Pre-mount all four bracket tabs to WinWing Super Taurus throttle by using M6x10mm bolts and washers.

Short tabs are on inside of throttle, longer tabs on the outside of throttle.

Tabs point opposite direction of seat.

**⚠** Leave hardware loose. Bolts heads point the accessible side of throttle.

9.2. Mount upper L brackets to bracket tabs by using 45mm bolts. Upper L brackets point towards seat.

**⚠** Leave hardware loose.

9.3. Pre-install Large knob

Above three steps illustrate rear side of throttle. Same steps apply on front side with mirrored relation.



10. Adjust rear 4way coupler distance and slide down upper L brackets to lower L brackets all the way down.

10.1. Ensure both upper L brackets are vertical to main rail and parallel to each other.

10.2. Tighten down all hardware holding upper L brackets and tabs to throttle control. Total of 6 bolts in front and 6 at the rear side of throttle.



10.3. Tighten both large knobs on upper L brackets to lower L bracket.

10.4. Tighten rear 4way coupler pair set screws to side rail.



## **14. Throttle adjustment**

Throttle adjustment process takes one direction at the time to maintain squareness and plumbness of all brackets.

14.1 To adjust height of throttle loosen the two large quick release knobs.

14.2. To adjust arm reach distance of throttle (fore and aft) loosen pair of set screws of 4way couplers secured to side rail

13.3 To adjust side distance, either loosen pair of set screws on each 4way coupler secured to lower L brackets or slide in/out T-extensions to seat frame.

## **15. Take off/combat panel adjustment**

15.1. Slide post to side rail for arm reach.

15.2. Slide pivoting adapter up and down on vertical bar for height adjustment

15.3. Adjust articulating arm by turning plate on its center bolt, tilt or side turn. Tighten or loosen articulating bolts and nuts for tighter or looser motion if necessary.

16. Slide side rail assembly back to seat frame. Ensure parallel relation between seat frame and side rail. Tighten small quick release knobs on seat frame side.



## **17. Virpil Control panels #1 and #2 installation**

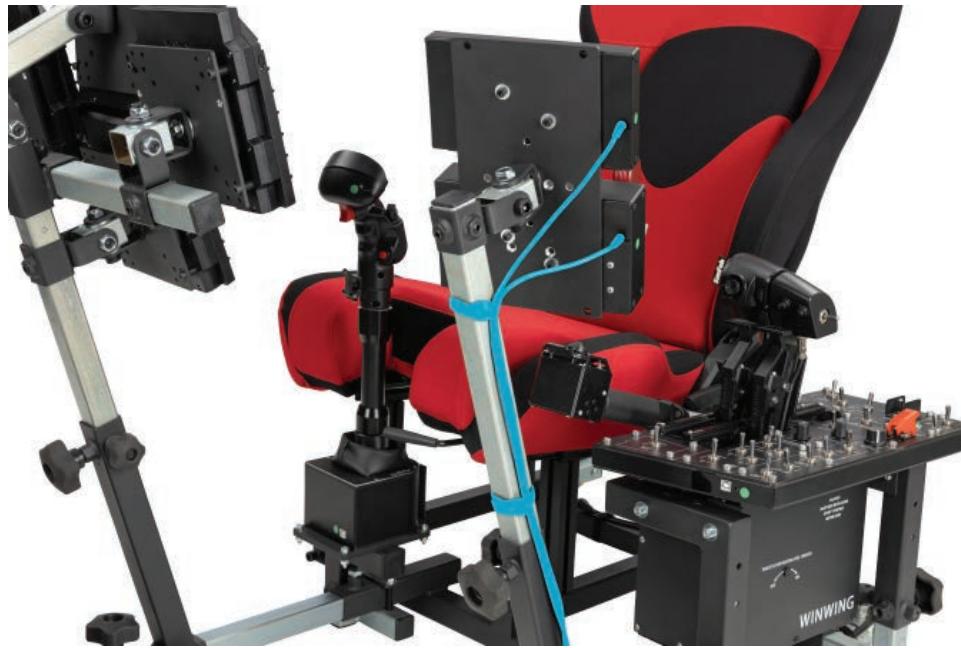
Mount front 4way coupler between T-extensions. Add 2nd knob to rear L bracket holding VirPil control panel. Adjust plates close to each other. Install VirPil control panel on take off/ combat ready plate by using included hardware. Refer to assembly manual configuration #2 for mounting VirPil controls to plates.

**⚠** Do not over tighten controls mounting bolts to avoid stripping controls insert riv-nuts.

Refer to page 34 with general adjustments to make final adjustments.



18. Use included Velcro tie wraps to manage cables neatly around tubes and out of the way.



19. To break down, store away or move your SimFab flight pit, disconnect each peripheral modules/attached brackets at easiest breaking points as shown.



## 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>

