

Flight Simulation Add-on Kit
Thrustmaster TCA Boeing Edition Yoke And Throttle
Quadrant (single or dual)
Configuration #8
General And Commercial Aviation Package
Yoke/Quadrant/Rudder Pedals **MK2**
Assembly Manual
And
Optional Accessories



Assembly instruction manuals available at:

V1.4 052725

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

by **SimFab[®]**.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

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 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.



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



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<https://bit.ly/simfabddckit>

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 configurations 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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<https://bit.ly/simfabhybrid>

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

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<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.



Configuration #1 + #3
Thrustmaster T.Flight



Configuration #3

<https://bit.ly/simfabhotascenterstick>



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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>



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



<https://bit.ly/simfabgripext>

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**Total of 70mm to 190mm (2^{3/4} - 7^{1/2} 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 of / 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



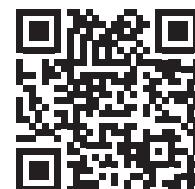
Flight Sim add-on configuration #11

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>

Parts list

1. Rudder plate assembly and hardware

⚠ Part list from 1 through 4 and images, refer to rudder pedal plate assembly section, page 28

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



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

Refer to Configuration #8 assembly section, page 38

1. Throttle quadrant plate with pre-assmebled shaft
2. Yoke C bracket with pre-assembled shaft.
3. Yoke adapter bracket with pre-installed set screws.
4. Throttle quadrant main support shaft
5. 4-way coupler for optional keyboard mount on right hand side
6. T extension tube
7. Yoke post
8. Throttle quadrant post
9. Knobs and bolts (pre-installed to both posts #7 & #8)
10. Yoke and throttle quadrant controls mounting hardware:
- 10C. Mounting hardware for Thrustmaster TCA Boeing edition throttle quadrant, single or dual.
- 10D. Mounting hardware for Thrustmaster TCA Boeing edition yoke: bolts (2), washers (2), 4mm stubby Allen key



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

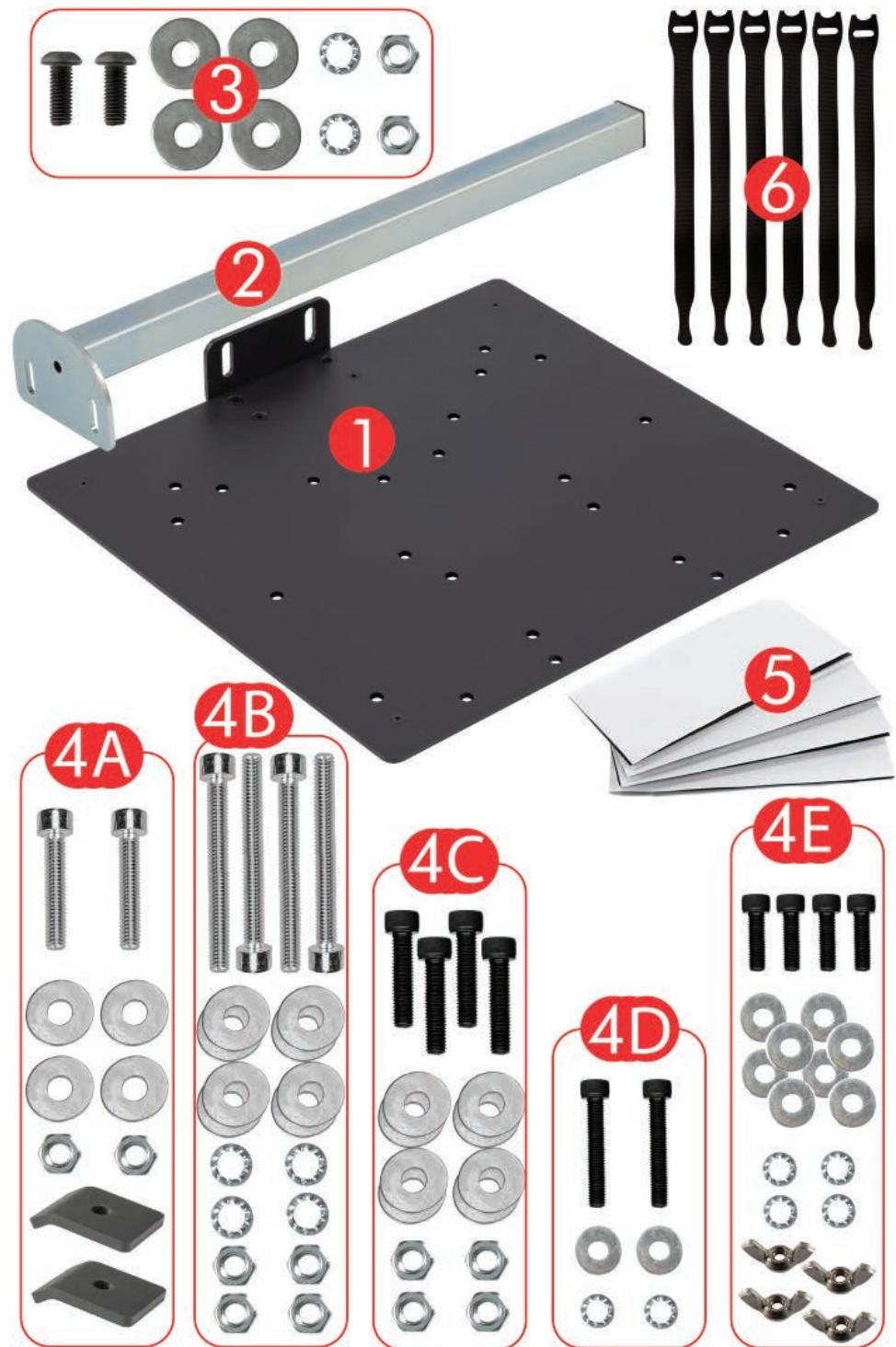
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Parts list

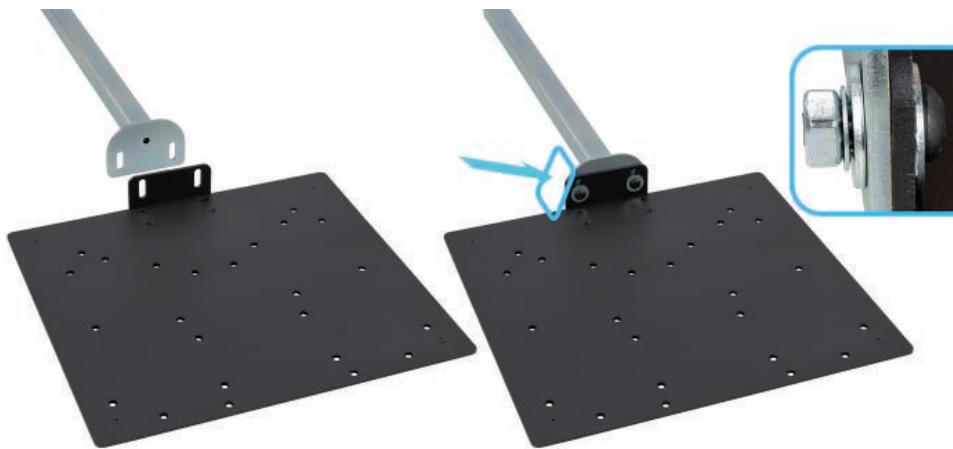
1. Rudder pedal plate with mounting bracket.
2. Rudder pedal plate shaft.
3. Rudder pedal plate to shaft mounting hardware.
4. Various controls mounting hardware:
 ▲ All controls mounting bolts are installed upside down (bolt heads on floor side).
- A. Thrustmaster TFRP and VirPil Torq
- B. Logitech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



Installation

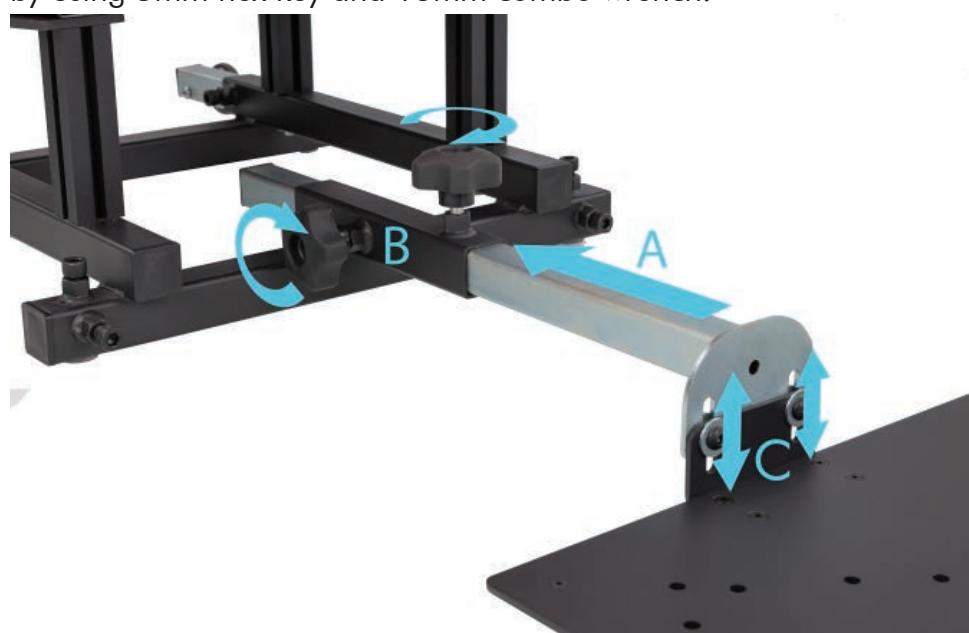
Pedal plate and shaft assembly

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 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

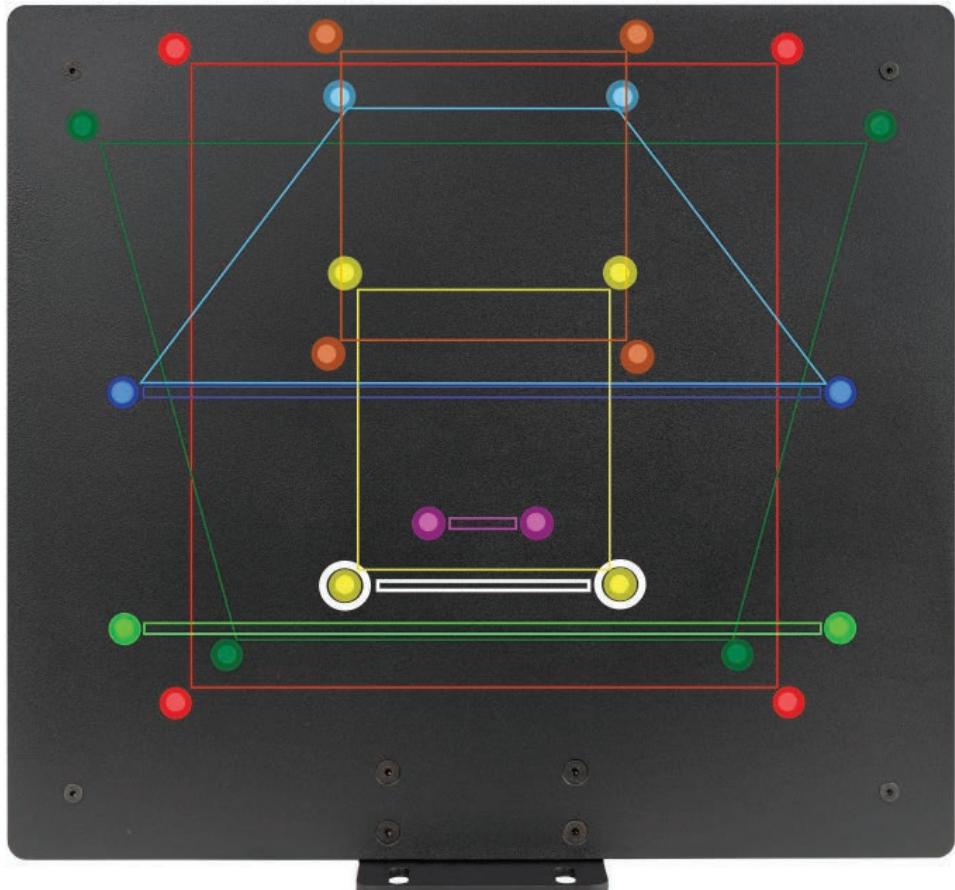
VirPil Ace Torq

MFG CrossWind

VKB Sim and Turtle Beach Velocity One

CH Products - use Velcro strips

Slaw Device Viper



4. Thrustmaster TFPF 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.



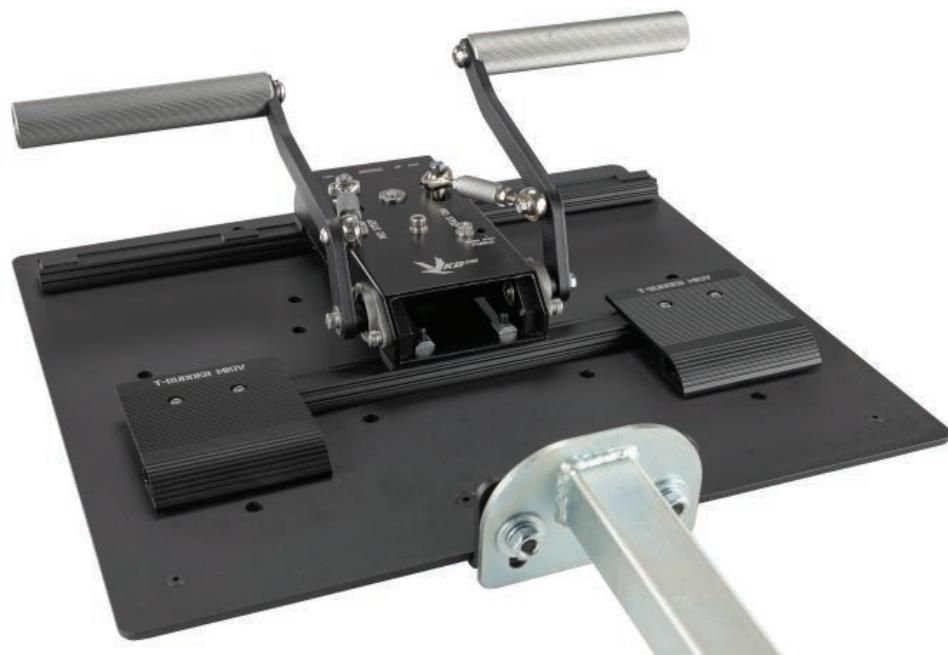
7. VKB T-Rudders Mk.IV rudder pedals.

⚠ 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/Quadrant Assembly Manual



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Parts list

Yoke and throttle quadrant bracket kit, and hardware.

1. Throttle quadrant plate with pre-assmebled shaft
2. Yoke C bracket with pre-assembled shaft.
3. Yoke adapter bracket with pre-installed set screws.
4. Throttle quadrant main support shaft
5. 4-way coupler for optional keyboard mount on right hand side
6. T extension tube
7. Yoke post
8. Throttle quadrant post
9. Knobs and bolts (pre-installed to both posts #7 & #8)
10. Yoke and throttle quadrant controls mounting hardware:
10C. Mounting hardware for Thrustmaster TCA Boeing edition throttle quadrant, single or dual.
10D. Mounting hardware for Thrustmaster TCA Boeing edition yoke:
bolts (2), washers (2), 4mm stubby Allen key



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.



Controls installation and mounting

⚠ By default pre-assembled hardware on throttle plate is for Honeycomb Bravo quadrant. Remove center bolt and pair of nuts from plate if Honeycomb throttle is not being used.

Thrustmaster TCA Boeing throttle installation

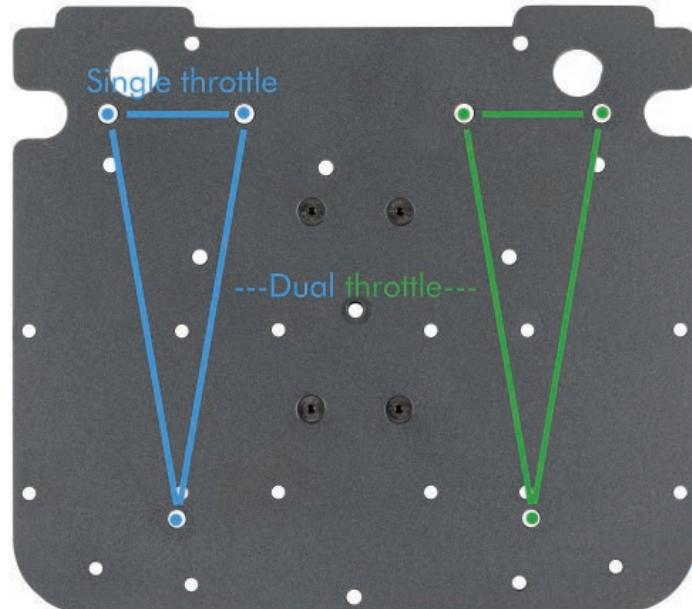
Single throttle



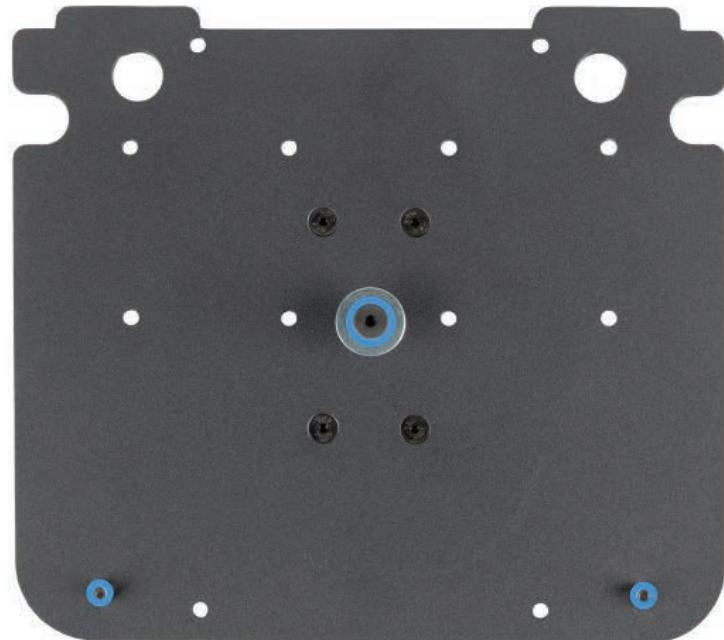
Dual throttle



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



Honeycomb Bravo throttle installation



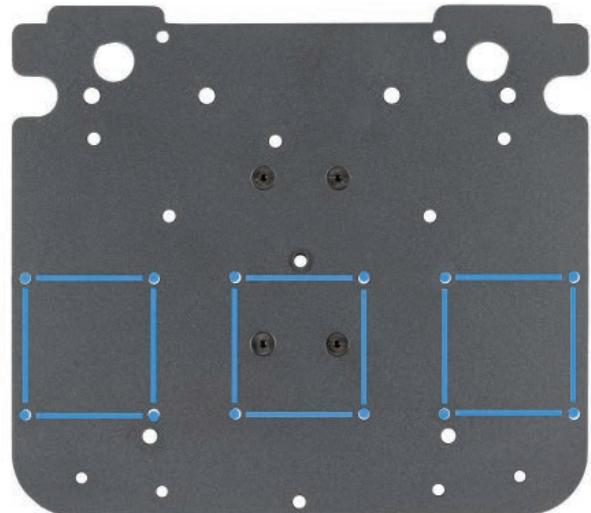
- 1.1. Transfer controls from factory plastic plate to SimFab aluminum plate. Mounting principal is the same as factory plate.
- 1.3. Slide quadrant on the plate with centered mounted bolt/washer fitting into the control center key way.
- 1.4. Extend tension wheels until they nest into pre-assembled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

Logitech/Saitek throttle installation

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.



CH Products throttle installation

Remove factory clamps from quadrant.

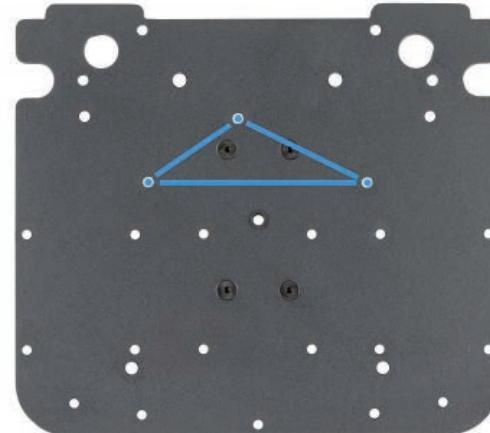
Install clamps through plate larger holes and tighten them down,
pointing towards center of the plate.



Turtle Beach Velocity One throttle installation



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



Thrustmaster TCA Boeing yoke installation

Undo yoke factory table clamps all the way out.

Slide in bolts from bag 10D with washers to yoke adapter bracket.

Ensure correct direction as shown.

Hand tight both bolts to yoke inserts.



Use included 4mm stubby Allen key to tighten bolts.

Tighten back factory table clamps against adapter bracket, over the bolt heads.



Install C bracket to yoke adapter bracket. Ensure it is all the way in, bottomed out to adapter bracket. Tighten both set screws by using 5mm Allen key.



Install shaft to post. Adjust yoke tilt and tighten pivot bolt and nut by using 17mm open wrench and 8mm Allen key.

Make final adjustments and enjoy the flight.



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>

