

Flight Simulator Add-on Kit
Configuration #12
Main Instrument Panel Holder
And
Optional Accessories



Assembly instruction manuals available at:

V3.3 110124

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

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.



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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**



DCS 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/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 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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<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.

<https://bit.ly/simfabhotascenterstick>



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Configuration #1 + #3
Thrustmaster T.Flight



Configuration #3



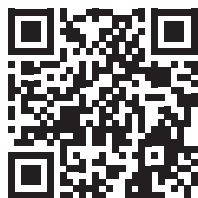
Configuration #2 + #3
Thrustmaster Warthog

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

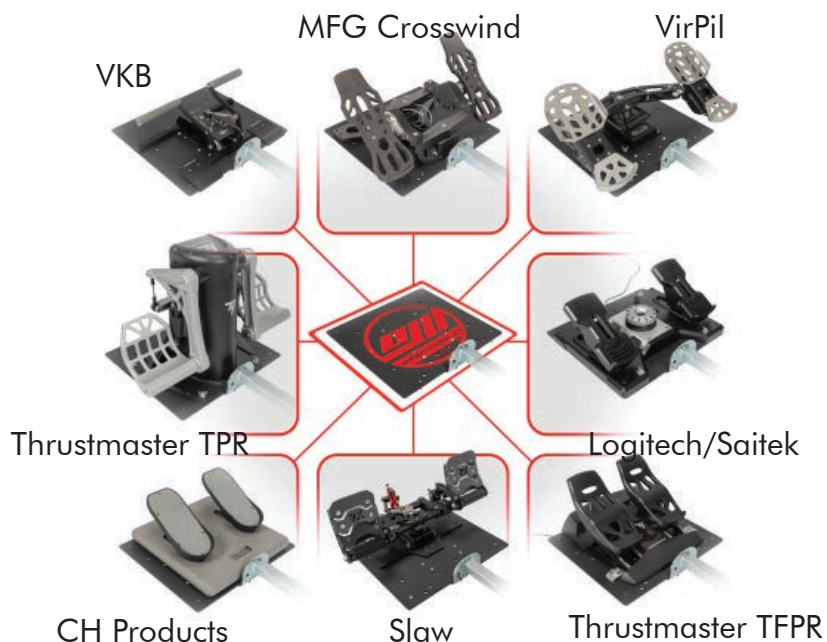
Configuration #4 consists of dedicated rudder pedal plate and shaft connected to seat frame. Rudder pedals are optional for lower end flight sticks within configuration #1 family, with built in yaw movement by twisting flight stick grip. Rudder pedal plate is required with higher end flight controls 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>



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>



70mm to 110mm
(2³/₄ - 4³/₈ in.)
extension



105mm to 145mm
(4¹/₈ - 5³/₄ in.)
extension



150mm to 190mm
(5⁷/₈ - 7¹/₂ in.)
extension



**Total of 70mm to 190mm (2³/₄ - 7¹/₂ in.) grip extension
all in one kit**

Flight Sim add-on **configuration #8**

Complete package for GA aviation, Thrustmaster TCA Boeing

Edition: yoke, throttle quadarant, 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>

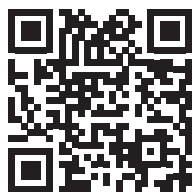
Flight Sim add-on **configuration #11**

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**

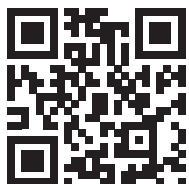
Extended upper L bracket for dual side control mount



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. Center post
 2. Vertical bar assembly
 3. Horizontal bar
 4. 4way coupler
 5. UFC/ICP/HUD adapter plate assembly
 6. Center MFD adapter plate assembly
 7. Side MFD adapter plate assembly (2)
 8. Optional long swivel blocks (2)
- ⚠ Replace default swivel blocks on side MFD assembly with long ones for alternative placement of side MFDs
9. Hardware
 - A. Large quick release knob (4)
 - B. Small supporting knob 13mm bolt for post upper side support (1)
 - C. Tie wraps for cable management (6)
 - D. M10 set screws (12)
 - E. WinWing MIP panel mounting hardware:
M5x20mm socket head bolts (18), M5x10mm nylon spacers (18)
 - F. VirPil control panels #1, #2, SharKa-50 mounting hardware
M5x14mm, countersink head (16)
 - G. Thrustmaster Cougar MFD bezel mounting hardware
M4x10mm (16)
 - H. Generic display VESA mounting hardware
M4x12mm (16)

Use tools included in base package SimFab cockpit, not included in this kit

1. 17mm open wrench
2. 10mm open wrench
3. 8mm Allen key
3. 5mm Allen key
5. 4mm Allen key



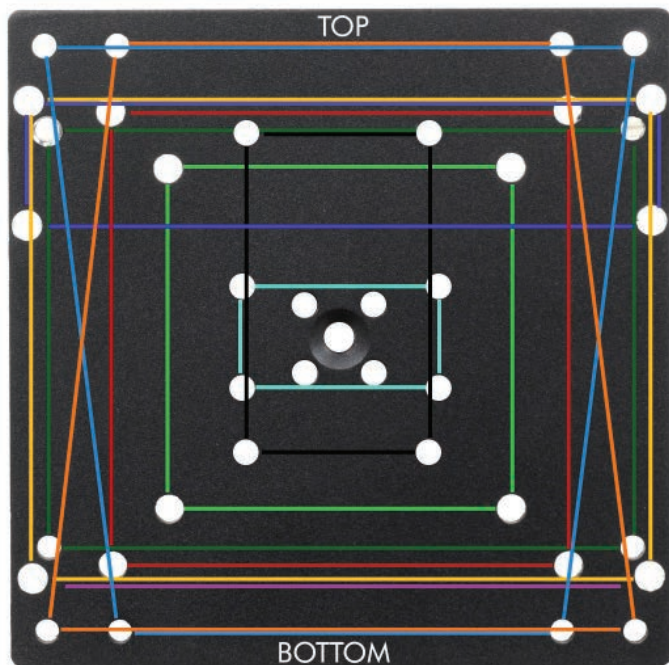
Plate mounting pattern and controls installation

Install control to plate by using appropriate mounting hardware. Refer to mounting pattern as illustrated below.

⚠ Do not over tighten bolts to avoid controls damage or stripping inserts

Use factory self tapping screws for Thrustmaster Cougar MFDs.

Reach out to us to receive mounting hardware and spacers for Simgears F16 ICP unit or other controls hardware, not included in the kit.



100x100 VESA
75x75 VESA
Thrustmaster MFD
Cougar bezel
Thrustmaster MFD
Cougar bezel 180°
WinWing PTO1/PCR1 unit
WinWing MFD/PTO2 unit
WinWing UFC unit
WinWing HUD unit
Simgears ICP unit
VirPil control panels
#1, #2, #3

⚠ To prevent plate center holding bolt from getting loose, turn plate clockwise on articulating joint. For tighter articulation use 17mm open wrench with 8mm hex key to tighten articulating joint bolts and 10mm open wrench to tighten center bolt nylock nut.



Installation

Install center post close to rudder plate shaft flange.

Tighten large knob on top **first** and pair of large knobs on adjacent side **second**.

⚠ Do not over tighten knobs to avoid damage.



Install by hand all 12 sets screws to all pivot adapters and 4way coupler. Turn set screws only couple turns.



WinWing MIP panel installation

Install WinWing MFDs and UFC/HUD to each plate by using included bolts and nylon spacers. Refer to labels, plate holes pattern and plate direction.

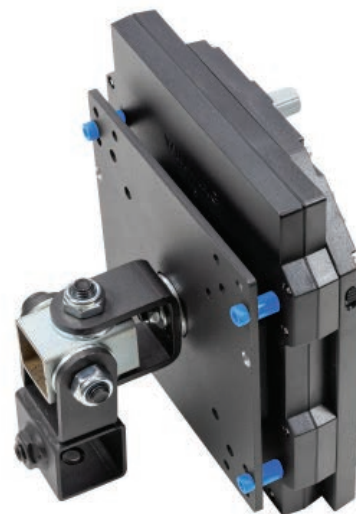
⚠ Included in the kit is set of mounting hardware for WinWing MIP kit with active displays or bezels only.

⚠ Do not over tighten bolts to avoid controls damage or stripping inserts

WinWing UFC/HUD unit installation. Connect short SATA wire between UFC and HUD units before mounting controls to plate. Mount UFC and HUD to adapter plate to both controls by using M5x20mm bolts and nylon spacers as shown.



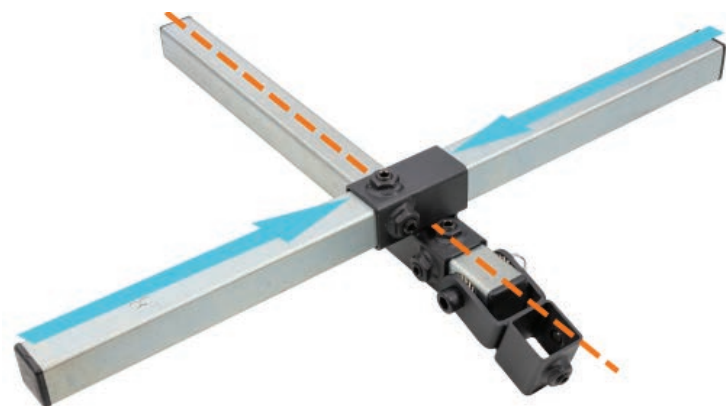
WinWing MFD unit installation. Side MFD shown below



Slide 4way coupler to vertical bar all the way up to pivoting tabs and tighten the pair of set screws by using 5mm Allen key.

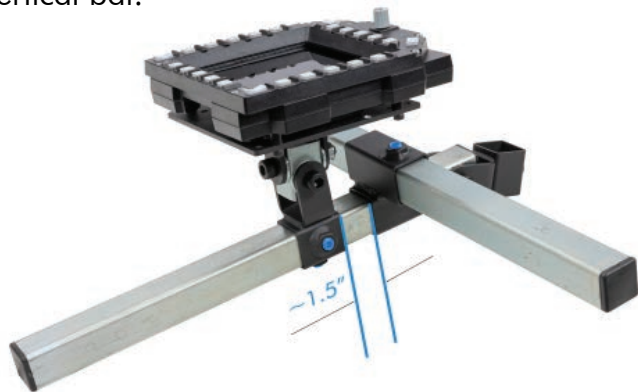


Slide horizontal bar. Measure equal distance on each side and tighten pair of set screws.



Below installation refers to WinWing MIP kit. Each plate assembly and shafts can be installed in various ways/directions according to each aircraft layout or personal preference.

Slide center MFD pivoting adapter to vertical shaft approximately 1.5" from 4way coupler. Tighten down set screw securing the MFD assembly to vertical bar.



Slide down vertical bar to center post. Tighten large knob first and side support knob second.

⚠ Upper side support knob has shorter thread and only fits in the upper side welded nuts.

⚠ Do not over tighten knobs to avoid damage.



Slide side MFD pivoting adapters on each side of horizontal bar, close to center MFD and leave them loose.



Slide UFC/HUD bar through vertical bar pivoting adapter. Adjust UFC/HUD plate angle/roll by pivoting vertical bar and plate pivot adapters or turning plate around center bolt until lower edge of HUD lines up with upper edge of center MFD, while UFC is at desired angle. Make additional incremental adjustments to each display/control where necessary. Tighten down all set screws.



Optional long swivel blocks on side MFDs.

Replace default swivel blocks with long ones if necessary or up to personal preference. Purpose of long blocks is to bring reach of side MFDs closer while center MFD is affixed. Alternative option is pointing long arms up, bringing side MFDs higher in reference to UFC/ICP/HUD unit, and maintaining affixed position of center MFD.

Refer to photo below for visual reference. Ensure correct bottom top orientation of the swivel block and choice of mounting holes as illustrated.



Adjust all controls and displays close to each other and at appropriate angles.



Sit on cockpit and make final adjustments to following connecting points:

- 1) Rudder shaft leg reach, ensure knob and bolt holding the shaft at seat frame center tube are tight.
- 2) Center post, ensure top large knob and pair of side small knobs are tight.
- 3) Re-adjust and tighten connecting bolts between rudder plate angle bracket and rudder shaft flange. Ensure rudder plate legs are touching floor. Tighten pair of bolts.
- 4) Vertical bar height, ensure large and side small support knobs are tight.
- 5) All pivoting adapters set screws are tight, count total of 8.
- 6) Make fine and incremental adjustments where necessary to achieve perfect fit and maximum immersion.

Use Velcro tie wraps to run all cables neatly around brackets and tubes. Ensure cables are getting pinched or overstretched during re-adjustment.



MFD/UFC/ICP holders have full articulation: up/down/side/rotation to allow best positioning depending on controls and type of aircraft layout. Each display/controls can be mounted on top/bottom or front of horizontal bar allowing endless adjustment capabilities.

* MFD pivot bracket mounted on top of horizontal bar

* MFD pivot bracket mounted in front of horizontal bar



* MFD pivot bracket mounted in front of horizontal bar and angled beneath horizontal bar towards pilot

* MFD pivot bracket mounted towards pilot



* MFD pivot bracket angled

* MFD pivot bracket tilted up/down



To break down, store away or move your SimFab flight pit, disconnect each peripheral module/attached bracket at easiest breaking point 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>

