

# *Flight Stick Grip Extension Kit*

## *Assembly Manual*

And

## *Flight Sim Add-on*

## *Accessories*



Thrustmaster  
Warthog

VirPil

WinWing

Assembly instruction manuals available at:

V5.2 103024

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

by **SimFab<sup>®</sup>**.com

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



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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

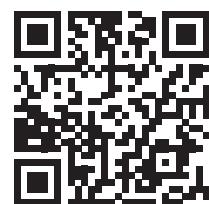


### Hybrid edition

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



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### 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.

## Parts List

1. Female adapter
2. Male adapter
3. Extension tube - 70 mm
4. Extension tube - 105 mm
5. Extension tube - 150 mm
6. MiniDin 5pin cable extension for Thrustmaster Warthog and VirPil flight sticks - 250mm
7. PS/2 6pin cable extension for WinWing - 250mm
8. M5 set screws (2)
- \*pre-assembled to each adapter
9. Allen key 2.5mm
10. Plastic spacers for WinWing stick base and grip sides (2)



## 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/simfabdcs>



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

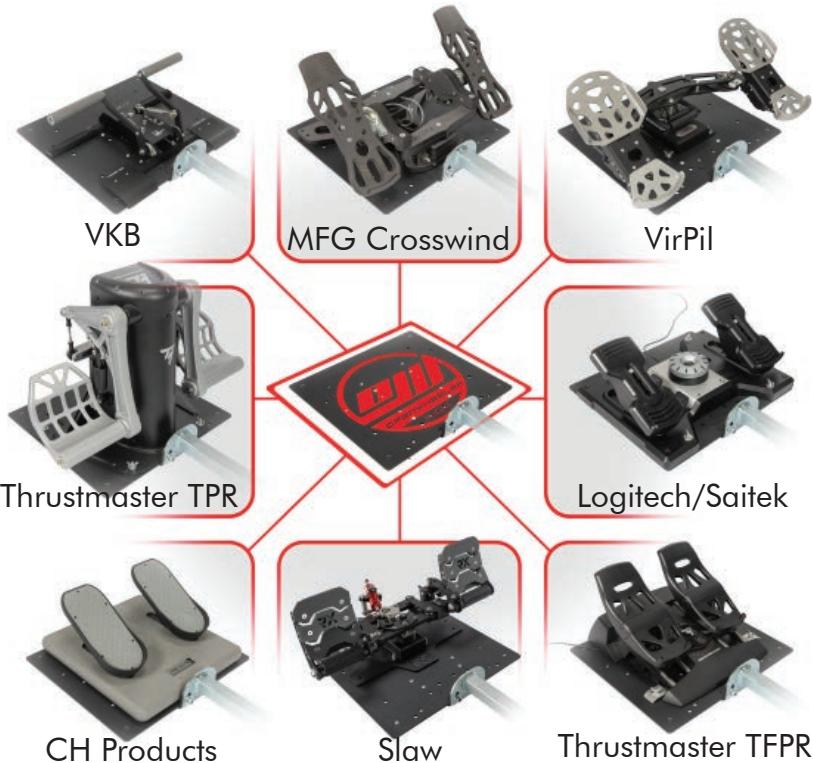
**SimFab**

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.

**SimFab**

General & Commercial  
Aviation

<https://bit.ly/simfabcommers>



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## 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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**Yoke bracket only**

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## 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>

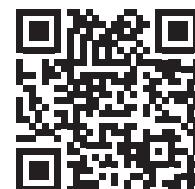
## Flight Sim add-on configuration #11

### 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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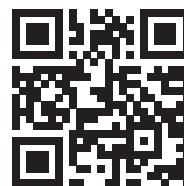
<https://bit.ly/maininstpanel>

## Flight Sim add-on configuration #13

### Advanced Modular Side Mount



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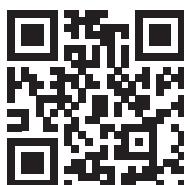
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## Flight Sim add-on configuration #14

Extended upper L bracket for dual side control mount



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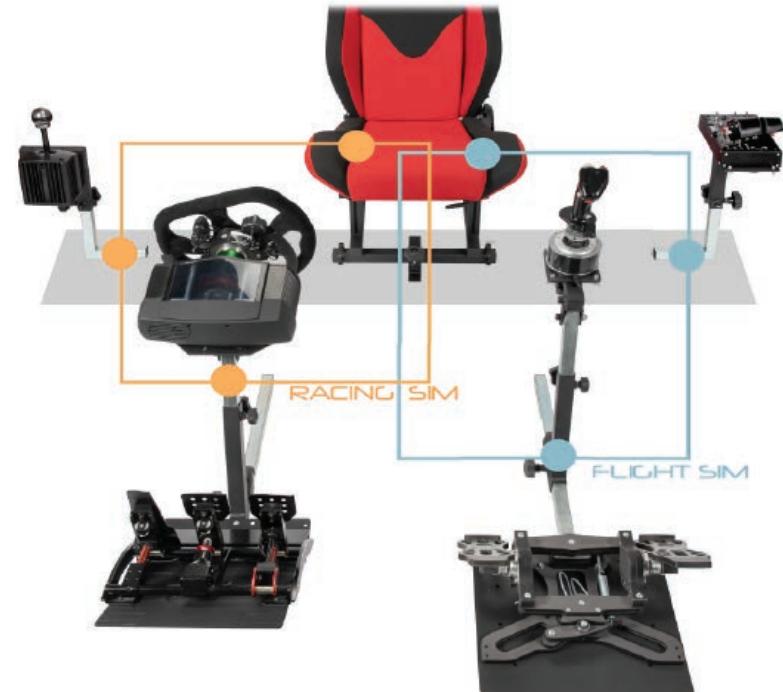
<https://bit.ly/UpperL>

## 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



1. Choose either one of three tube extensions according to your personal preference and setup.

- Male adapter allows ~15mm, female adapter ~25mm of additional length depending on where set screw is set against the extension tube.



Short size extension tube can be adjusted in length between 70mm and 110mm ( $2\frac{3}{4}$  -  $4\frac{3}{8}$  in.)

Long size extension tube can be adjusted in length between 150mm and 190mm ( $5\frac{7}{8}$  -  $7\frac{1}{2}$  in.)

Medium size extension tube can be adjusted in length between 105mm and 145mm ( $4\frac{1}{8}$  -  $5\frac{3}{4}$  in.)



2. Ensure extension tube is set below male and female threads on each adapter. **⚠ Do not over tightened set screws as it may damage adapter threads or hardware. ⚠**



3. Plug in **5pin** extension cable to flight stick base. Ensure female and male pins match. **⚠️ Ensure correct cable is used with compatible pins:**  
**5pin:** Thrustmaster and VirPil flight stick controls. **⚠️**



4. Screw on Female adapter side to stick base until it is secured.  
**⚠️ Do not over tighten female adapter ⚠️**



5. Carefully coil in and fold excess cable length into extension tube.



6. Connect cable end to grip connector gently. Ensure pins match. Screw in grip female ring to male adapter thread. Turn grip at angle according to personal preference.



7. Use plastic spacers on both ends of extension at the stick base and grip.



3. Plug in **6pin** extension cable to **WinWing** flight stick base. Ensure female and male pins match. **⚠️ Ensure correct cable is used with compatible pins: 6pin: WinWing Super Libra flight stick.** **⚠️**



Often purchased add-on accessory along with grip extension is Centered flight stick lower mount bracket with adjustable height.



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Center stick lower mount bracket is dedicated for the following brands flight sticks with removable grip and ability to add grip extension:

Thrustmaster Warthog, VirPil, VKB, WinWing

Bracket allows height adjustment as low as 5.5" from floor to base plate with bracket mounted under main support tube. With added extension tube, as high as 16.5" from floor to base plate. Total of 11" height adjustment. Purpose of adjustable flight stick base is allowing precise vertical alignment of stick grip in accordance to seat height and grip extension (if such is installed to the stick).

Updated plates are pre-drilled to accommodate the following sticks and stick bases: Thrustmaster Warthog, all Virpil, VKB, WingWin.

Bracket is clamped on main support tube. Optionally it can be clamped on seat frame center tube.

Bracket mounted at lowest setting



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Bracket mounted with tube extension at highest setting.



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## 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>