

Modular Flight Simulator Cockpit

Hybrid Edition

- * Assembly Manual
- * Introduction Of Modular Design
- * Optional Add-on Accessories



Assembly instruction manuals available at:

V1.1 030824

<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.



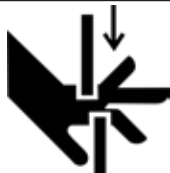
WARNING

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



WARNING

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



SimFab modular cockpit "Hybrid Edition" package consists of several individually packed modules (configurations). Install each in the following order and refer to their dedicated assembly manual where applicable.

- 1.1. Install seat lift kit (located within seat frame on bottom of the box) between seat frame and seat base sliding rails.
- 1.2. Install optional arm rest kit between seat risers and seat sliders.
 - ⚠ Follow instructions in arm rest kit manual booklet.
 - ⚠ Follow instruction in Seat lift kit manual booklet.
2. Install seat backrest to seat base.
 - ⚠ Do not use seat before it is fully assembled and has weight in front, or rear extensions installed to the back, preventing seat from tipping over.
3. Install seat frame rear extensions.
4. Install flight sim configuration #1 side brackets, plates and controls
5. Install optional flight sim configuration #4, rudder pedal plate (sold separate)
6. Install optional center post for center mounted stick.
7. Install all rest optional configurations or add-on accessories available for purchase at www.SimFab.com or www.Amazon.com

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Parts list

Parts

1. Seat base and seat backrest
2. Seat frame
3. Seat frame felt pads
4. Seat lift kit (located within seat frame area)
5. Seat frame rear support kit (located within seat frame area)
6. Side control upper L bracket (2)
7. Side control lower L bracket (2)
8. Large universal plate (2)

Hardware and accessories:

9. Upper L brackets and frame quick disconnect knobs (4+2)
10. Velcro strips for controls without hard mount inserts or mounting holes.
11. Velcro ties for cable management (6)
12. Assembly manual booklet
13. Plates to upper L brackets mounting hardware:
bolts (4); washers (4); lock washers (4); nuts (4); 4mm Hex key

14. Controls mounting hardware:

.A: Mounting hardware for Thrustmaster controls:

bolts (4); washers (4)

B. Mounting hardware for Logitech/Saitek controls:

bolts (4); washers (4); wingnuts (4)

C. Mounting hardware for VKB and Turtle Beach sticks, and throttles:

bolts (6); washers (8); wingnuts (4)

15. Wrenches

5mm Hex key

8mm Hex key

7mm combo flat wrench

10mm combo flat wrench

13mm combo flat wrench

17mm combo flat wrench



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.

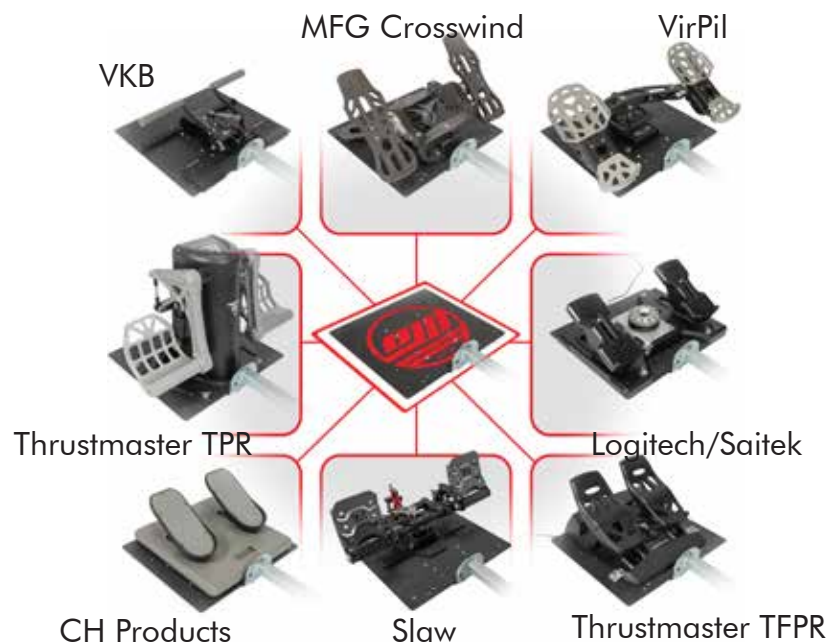
Configuration #4 consists of dedicated rudder pedal plate and shaft connected to seat frame. Rudder pedals are optional for lower end flight sticks within configuration #1 family, with built in yaw movement by twisting flight stick grip. Rudder pedal plate is required with higher end flight controls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

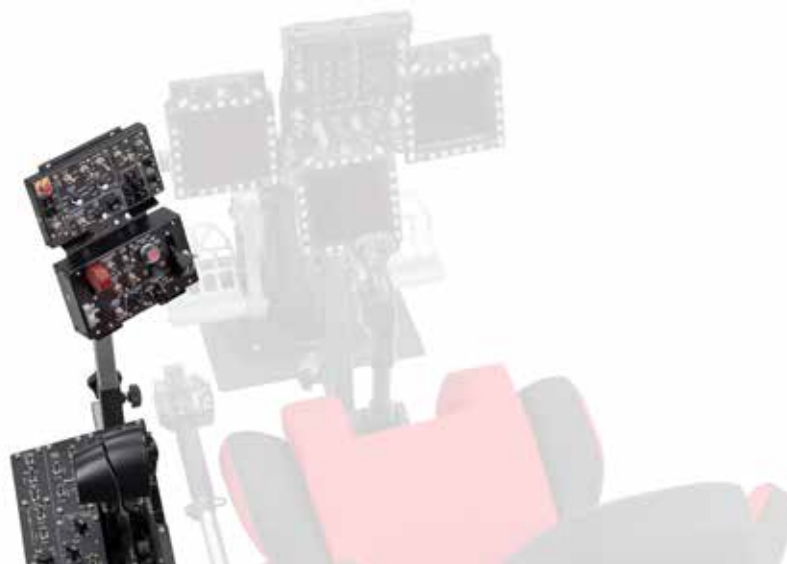
Flight Sim add-on **configuration #10A**

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 #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



Seat and Seat frame installation

1. Install seat lift kit between seat frame and seat base.

⚠️ Refer to seat lift kit installation manual.

Attach felt pads to each corner of seat base frame. Align each pad with welded nuts, towards the end of frame tube as shown.



2. Seat Assembly

- Remove pre-screwed pair of bolts on left side of the backrest and bolt on right side of the seat.

⚠ Seat base is designed with removable center foam insert for center mounted stick or cyclic use.



- Align backrest with seat reclining arm on the left side. Hand tight single hinge bolt on right side **first**, then two bolts on the left side.



- Tighten down all 3 bolts with supplied wrenches: small Allen (Hex) key for the pair bolts on the left; Large combo wrench for the bolt on right side.



3. Seat frame rear extension kit with “Easy Roll” wheel set installation. Insert wheel tube into rear side of seat frame until it bottoms out. Secure tubes with pair of bolts pre-installed to seat frame.

Install leveling feet pointing down and rolling wheels up when chair is resting. Adjust leveling feet until they touch floor.

Flip brackets with rolling wheels pointing down when chair needs to be moved around. Lie backrest down until wheels touch floor and roll chair by keeping balance.



Compatibility

Flight sim add-on kit configuration #1 is compatible with the following brands and models:

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



Universal side brackets installation

Insert lower "L" bracket to upper "L" bracket. Use either long or short arm of lower "L" bracket depending on height position adjustment. Mount pair of handle knobs as shown below.



Use flathead screwdriver to wedge out plastic cap from front/side frame tube. *End caps may be removed



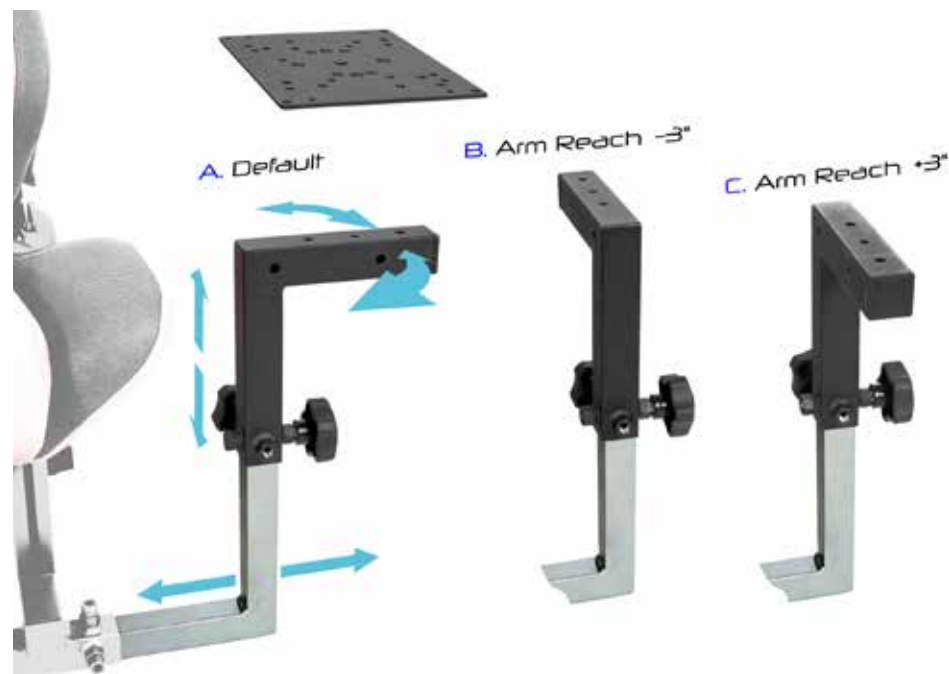
Insert lower “L” bracket to front/side tube of the seat frame. Install pair of bolts into welded nuts of the frame.

Depending on setup and preference, switch to either long or short Lower L bracket arm.

Repeat above steps for left hand side bracket set.



⚠ Optional turn upper L bracket pointing forward, turn plates 90 degrees for extra 3” arm reach.



Plates installation

4. Mount each plate to upper support bracket by using pair of countersink bolts, washers, tooth washers and nuts per plate.



Flight controls installation

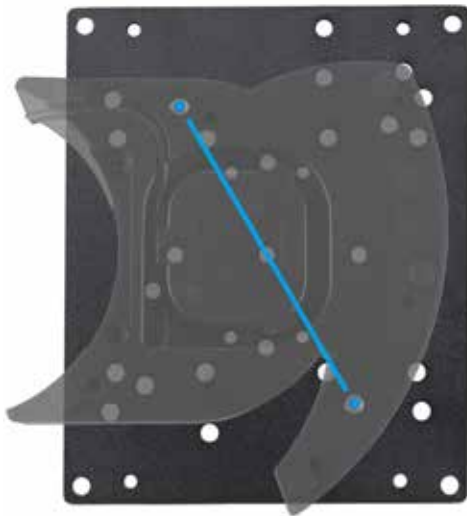
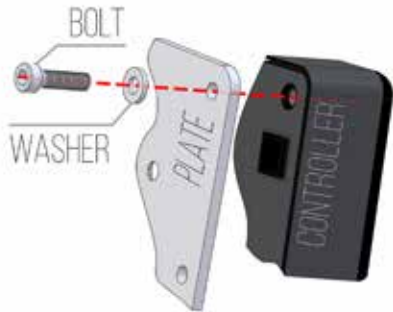
5. Depending on brand and model controls use included mounting hardware to hard mount stick and throttle to each plate. Use included Velcro strips for controls not equipped with mounting inserts or through holes.

Thrustmaster T.Flight controls with cable between stick and throttle require upper L brackets adjusted forward and lower L brackets adjusted closer to seat sides. Run cable across lap. Use Velcro strips to secure stick for 1st gen T.Flight set without hard mounting inserts.

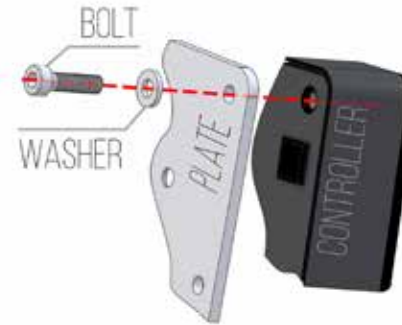


Controls mount pattern

Thrustmaster T.Flight One/4 Throttle



Thrustmaster T.Flight One/4 Stick



Thrustmaster T16000M FCS Throttle



Thrustmaster T16000M FCS Stick



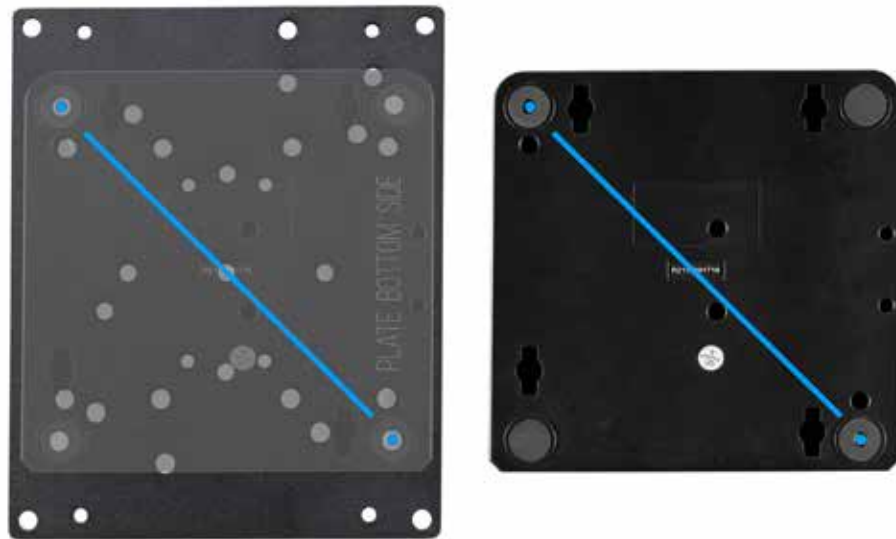
Logitech (Saitek) X56 Throttle



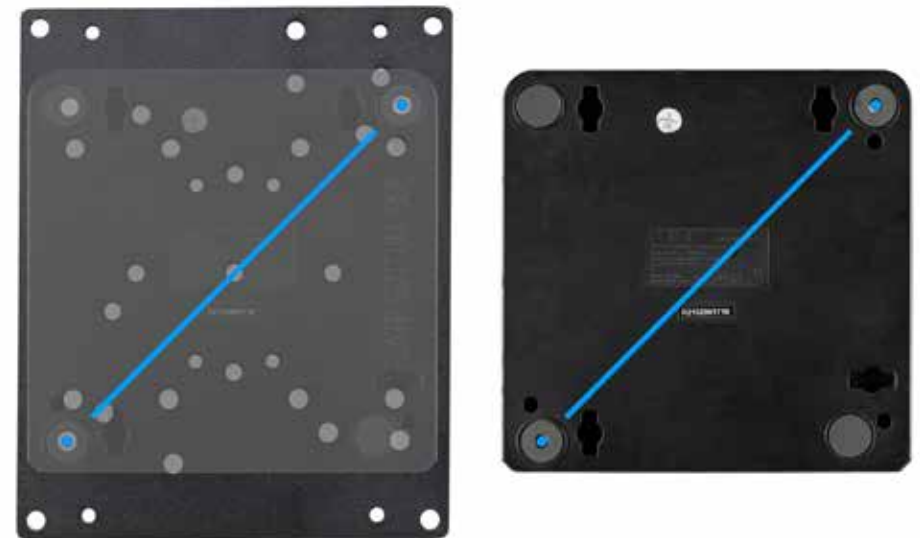
Logitech (Saitek) X56 Stick



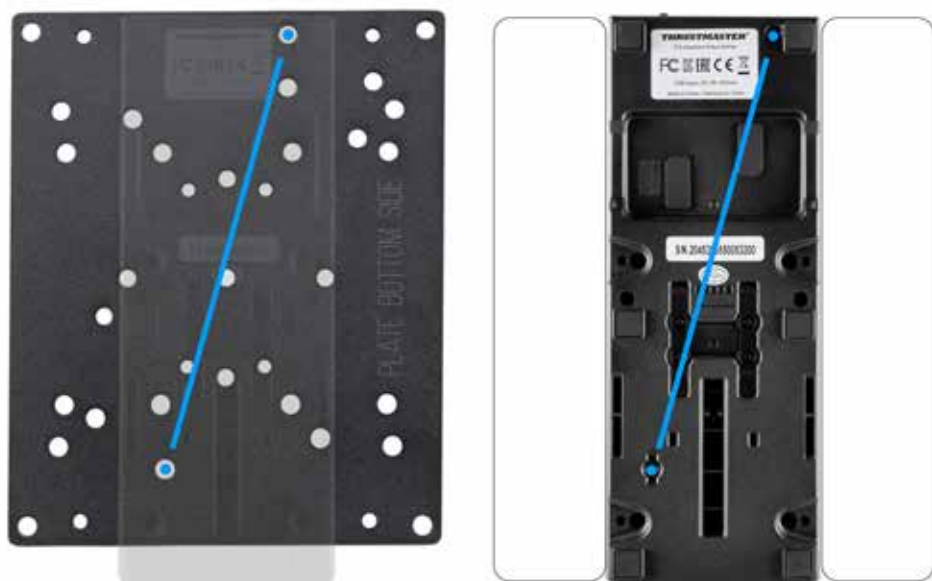
Logitech (Saitek) X52 Pro Throttle



Logitech (Saitek) X52 Pro Stick



Thrustmaster TCA Officer or Captain Pack Airbus Edition Throttle-Quadrant



Thrustmaster TCA Officer Pack Airbus Edition Stick



Accessories

Arm rest kit



<https://bit.ly/simfabarmrest>



Monitor / TV Stands

Single monitor mount stand with VESA bracket up to 100x100mm and hardware M4/M5 (most monitors)

Single monitor or TV mount stand with VESA bracket over 100x100mm and hardware M6/M8 (most TV sets)



Triple monitor mount stand with VESA bracket up to 100x100mm and hardware M4/M5 (most monitors)

Triple monitor or TV mount stand with VESA brackets over 100x100mm and hardware M6/M8 (most TV sets)

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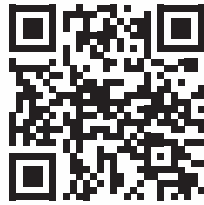


<https://bit.ly/smonld>



<https://bit.ly/sf-remotemonitor>

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Overhead or Submount Monitor Mount Bracket Kit

⚠ Compatible
only with model
LD monitor stands

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bit.ly/sf-frontsurround
**Front Surround
Speaker Tray Kit**



DD Conversion kit

Convert your Gen2 or Gen3 to DD chassis. Meant for direct drive wheels with high torque force feedback while keeping low overall cost of your modular and multipurpose sim rig.

All Gen2 and Gen3 accessories and add-ons remain fully compatible.

**SimFab DD
Conversion Kit**



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<https://bit.ly/simfabddckit>



Neck support pillow in matching color.



Fig.42



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



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Lumbar support pillow in matching color



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



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Racing Seat Cover (Seat Upholstery Protector)

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



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<https://bit.ly/sf-rearsurround>



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Rear Surround Speaker Tray Kit



Seat Frame Extension Kit

Extensions come handy when racing seat is used as a stand alone gaming chair, without front chassis, adds stability when reclined all the way back.



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



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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 OpenWheeler 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.



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



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4 Point Seat Harness



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



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- 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

Featuring 49" single
ultra wide monitor
mount



Featuring 32" triple monitor mount with 4th 32" overhead data monitor



Featuring 65" triple TV setup, vertical mounted for helicopter flight simulation



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.

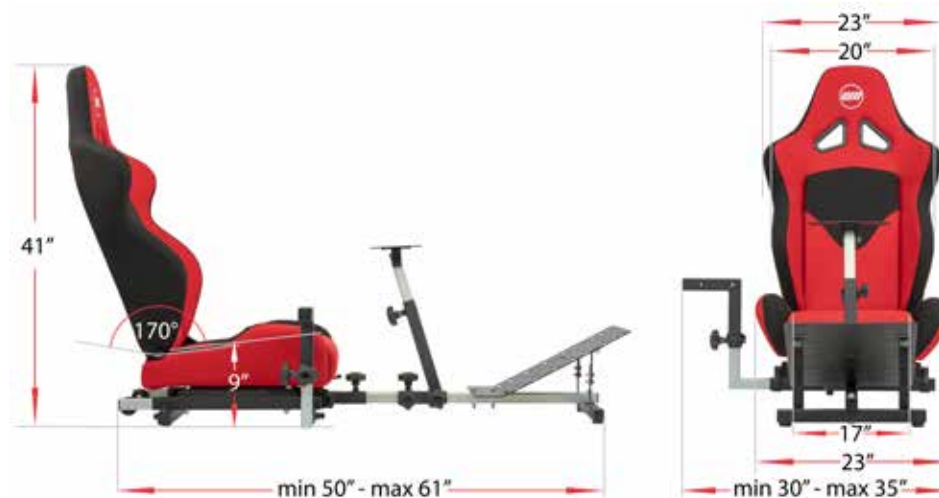
Watch fingers when adjusting recliner.

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>

