

DD conversion kit for OpenWheeler Gen2 and Gen3 sim racing cockpits



Assembly instruction manuals available at:

V2.4 121522

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

by **SimFab**.com

WARNINGS:



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



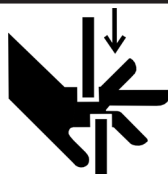
WARNING

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



WARNING

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



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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SimFab Modular Flight Simulation Concept And Design Intent

SimFab offers wide range of dedicated and specialized flight simulation pits with high level of fidelity, realism and immersion. While all our pits, attachments and brackets are designed, replicating real aircrafts layout we take in consideration maximum comfort, modularity and full compatibility with all established brands and controls makers on the current market.

SimFab modular flight pit concept starts with several basic models covering the essentials at most affordable budget, without compromising in quality and craftsmanship.

Base models are suitable for flight sim pilots entering the air field of flight simulation and looking to give it a try at affordable cost. Each of our models has modular design, all upgradeable and interchangeable with one another, including sim racing setup.

Our base models are purposed for type of flight simulation as well as types of flight controls sharing similar attachment design.

SimFab introduces three base models as follows:

Civil aviation modular pit, **MSFS edition**.

Civil, combat and space sim modular pit, **hybrid edition**.

Combat sim modular flight pit, **DCS World edition**



DCS edition

For compatibility refer to flight sim add-on kit configuration #2



Hybrid edition

For compatibility refer to flight sim add-on kit configuration #1



MSFS edition

For compatibility refer to flight sim add-on kit configuration #5

Parts list

1. Side support tubes (2)
2. T-extensions (4)
3. Horizontal bar
4. Steering wheel plate adapter (pre-installed to horizontal bar)
5. Horizontal bar pivot brackets (2) (One is pre-installed to steering shaft)
6. Steering shaft (Use 2nd shaft from original Gen3 kit)
7. Steering post (use 2nd post from original Gen3 kit)
8. Pedal plate lower support bracket
9. 4way coupler (for manual shifter bracket.

If you have purchased additional side brackets please reach out to us for extra 4way couplers.

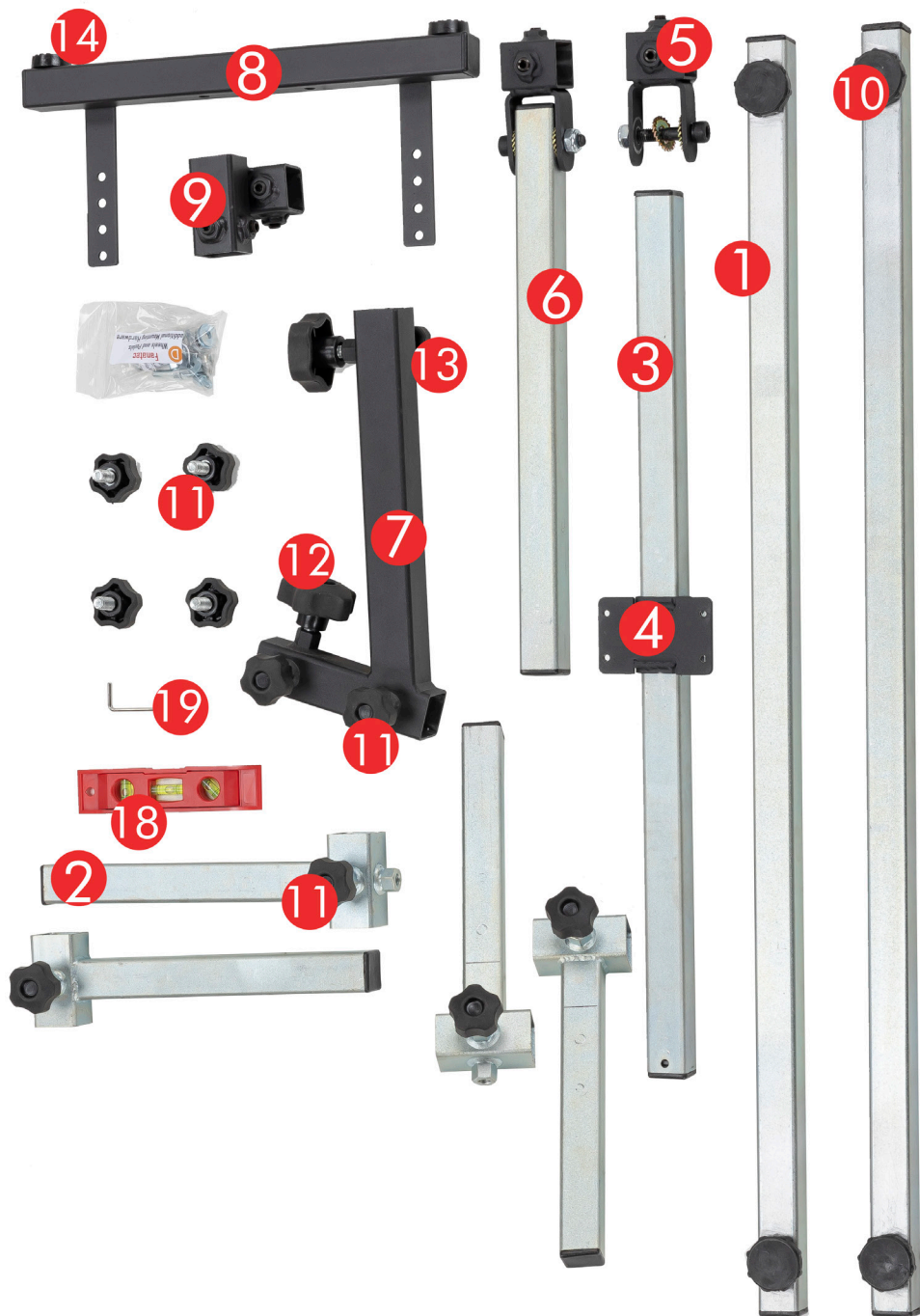
Hardware:

10. Leveling feet M10, 30mm (4), pre-installed to side main tubes.
11. Small knobs 20mm (10)
12. Large knobs 20mm (2)
13. Small knob 13mm (pre-installed to steering post)
14. Leveling feet M6, 20mm (2), (pre-installed to pedal plate lower support bracket)
15. M10, 55mm bolt (2); M10, dual-tooth washer (4); M10, nylock nuts. (All pre-installed to horizontal bar adapter)
16. M8, 50mm bolt (2); M8 washers (2); M8 nylock nuts (2). (All pre-installed to steering wheel plate adapter)
17. Fanatec DD pro and DD podium mounting hardware

Tools:

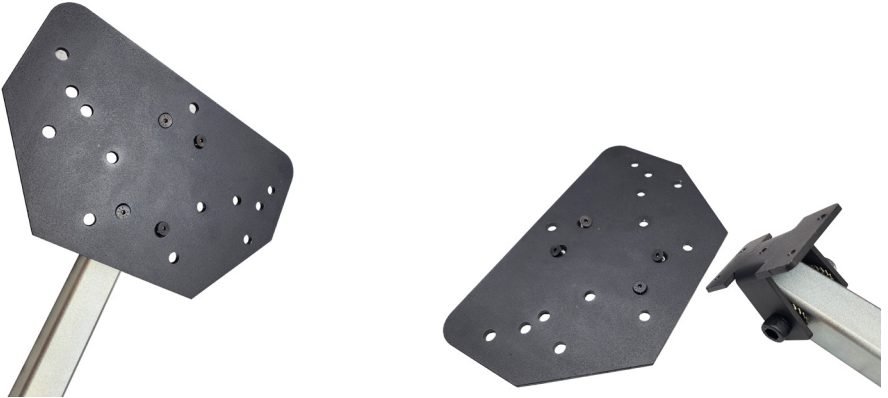
18. Torpedo magnetic level
19. 3mm hex key

Required tools not included in this kit: 17mm, 13mm, 10mm open wrenches, 8mm hex key. Use said tools from original Gen3 kit.



Lay out all parts and hardware and organize them by pairs and groups as per manual.

1. Remove steering wheel plate from gen3 pivot bracket held by 4 countersink bolts and using included 3mm hex key.

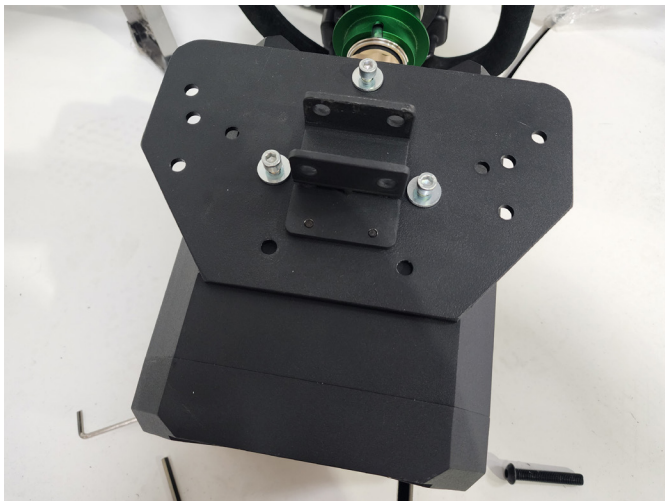


2. Install steering plate to DD plate bracket

⚠ Do not over tighten countersink bolts



3. Mount wheel base to steering plate



Steering wheel mounting pattern

Logitech

Logitech Pro

Thrustmaster

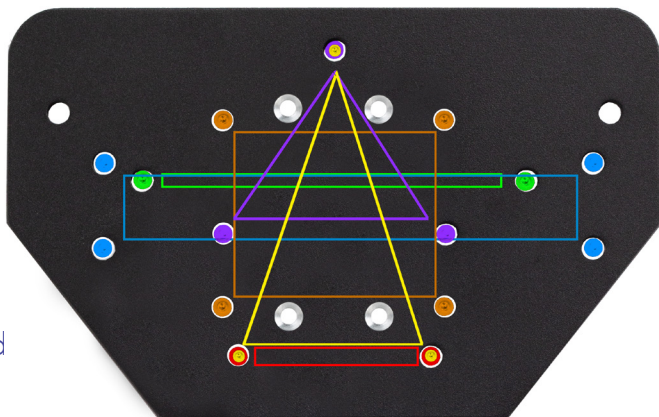
Fanatec 1

Fanatec 2

(highly recommended)

Simagic and Moza

Fanatec CSL wheel

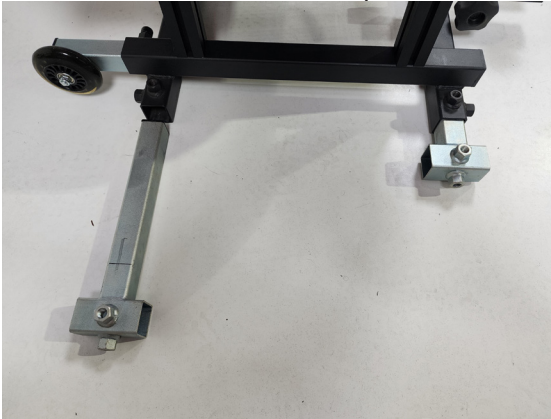


⚠ Please reach out to us to receive updated wheel plate at no additional cost if you own Moza or Simagic wheel and have older version steering wheel plate which does not include matching mounting pattern.

4. Remove end side caps from seat frame and bolts.

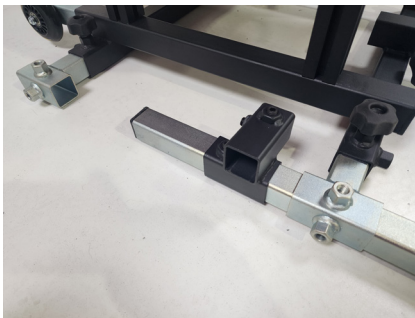


5. Slide in T-extensions into seat frame up to indentation marks

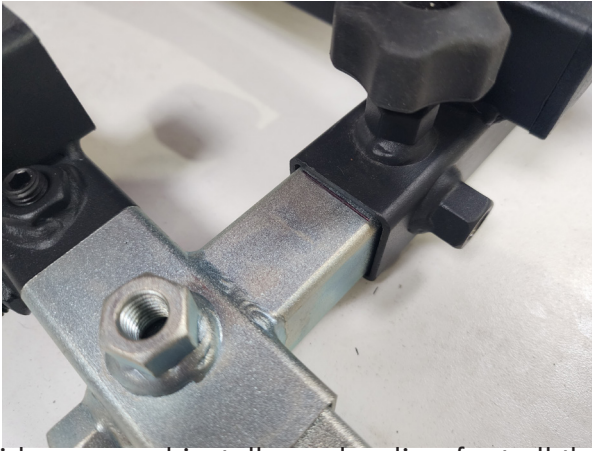


6. Install small knobs on top welded nuts and leave them loose.

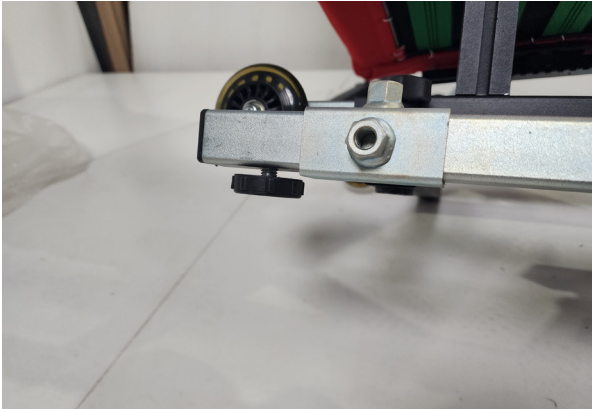
7. Slide side main tube to T-extensions. At Half way slide 4way coupler if manual shifter is used



8. Slide side main tube all the way through and tighten small knobs with t-extensions indentation marks aligned to edge of seat frame tubes.

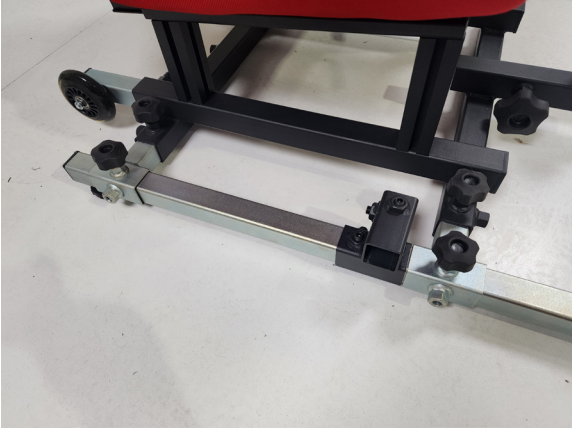


9. Lien seat sideways and install rear leveling foot all the way until it bottoms out.



10. Slide side main tub all the way forward until bolt of rear leveling foot touches T-extension bracket and tighten pair of small knobs on top welded nuts of t-extension brackets.

Do not over-tighten small knobs



11. Slide steering post into side main tube all the way until it bottoms out

Steering posts can be installed pointing forward or backward depending on personal preference. Leave all knobs loose.

Use 2nd steering post from Gen3 kit



12. Install front leveling foot all the way in.
Repeat above steps for opposite side.



13. Install steering shafts all the way in until they bottom out.
(Use 2nd steering shaft from Gen3 kit and install horizontal bar pivot bracket to it same way as pre-assembled one)

14. Install horizontal bar. Use as reference only end plastic caps on each end should be exposed. Tighten down all 4 set screws on both pivot brackets



15. Tighten down pivot brackets enough so horizontal bar stays fixed with approximate weight load of steering wheel base and loose enough to be able to adjust by tilting wheel up or down.

16. Tighten down all steering post knobs in the following order: First large knobs, second small knobs. If adjustment is necessary, loosen knobs in opposite order: first small knobs, second large knobs

Do not over-tighten knobs to avoid damage.

17. Install plate to horizontal bar



18. Sit on seat adjust arm reach by sliding steering posts and re-tightening all knobs

19. Adjust wheel tilt and tighten all the way tilt brackets.

20. Adjust wheel height and level horizontal bar by using included magnetic torpedo level.



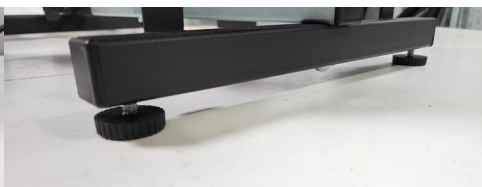
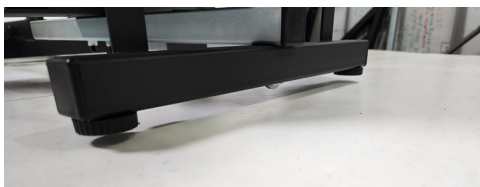
21. Check all 4 leveling feet touch the floor and adjust if necessary.

22. Replace gen3 pedal plate lower support bracket with DD version.

24. Slide in center main tube into seat frame and adjust pedals foot reach accordingly. Tighten adjacent knobs

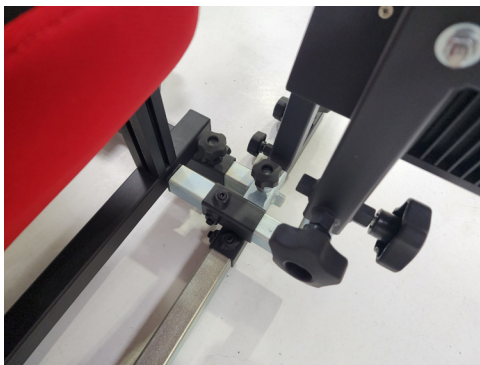


25. Adjust leveling feet of pedal plate bracket just until they touch floor. Do not over extend them to avoid lifting entire frame.



26. Install optional manual shifter bracket from Gen3 if its being used

27. Tighten all 4 set screws on 4way coupler



Keyboard assembly mounted on right hand side by using 4-way coupler

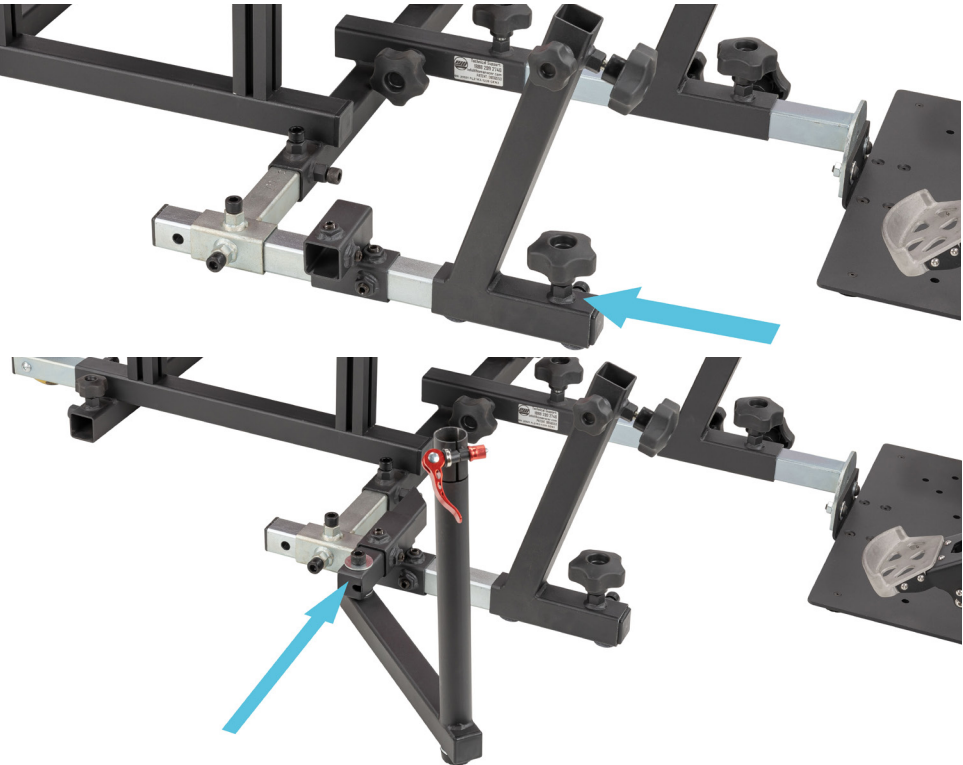
To mount optional keyboard assembly on right hand side along with side support tube, use included in the package 4-way coupling.



Slide in 4-way coupling on throttle quadrant shaft. Leave pre-installed set screws loose until keyboard tray assembly is set to proper position.



Slide Keyboard tray wedge tube into 4-way coupling and adjust position according to throttle quadrant post, and available tube space. Tighten all four (4) set screws with 5mm Allen key.



28. Make final adjustments and enjoy the race.



Accessories



Seat Lift Kit (seat spacers)

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



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- Optional spacers raising seat with 5 in.
- Pre-cut at 5 degrees tilt for optimum comfort.

Monitor / TV Stands

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



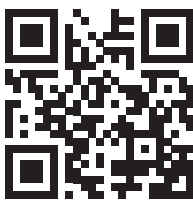
Single monitor or TV mount stand with VESA bracket over 100x100mm and hardware M6/M8



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

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

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<https://amzn.to/35f2A0Q>



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://amzn.to/3eo87Xh>



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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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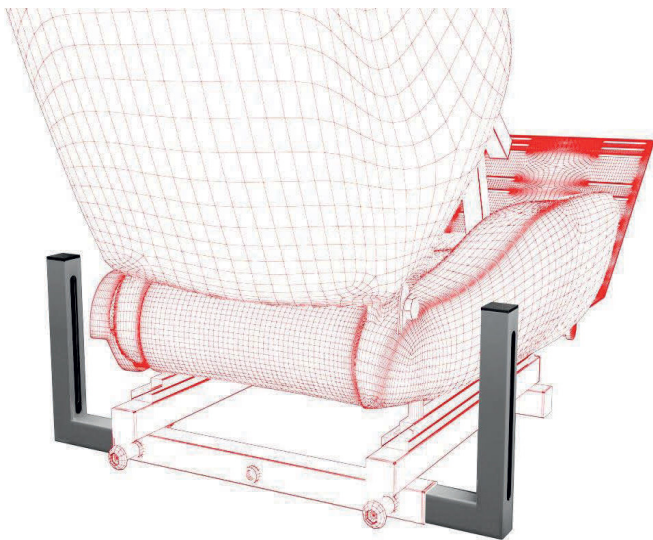
Low frequency tactile transducer (bass shaker) universal bracket

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.

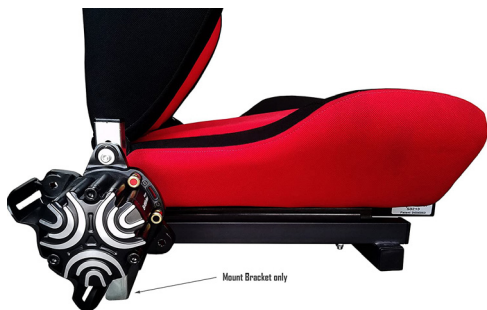
Optional, install a pair of bass shakers for stereo effect on both sides of seat frame.



<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

Thrustmaster TSSH Sparco HandBrake Mode Mounting Bracket



<http://bit.ly/ow-sparco1>



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Dual Sparco Handbrake With Sequential Shifter Combo Mounting Plate



<http://bit.ly/ow-sparco2>



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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.



<https://amzn.to/3LA41qS>



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Keyboard tray kit

Highly adjustable add-on keyboard and mouse tray. Tray assembly can be mounted on either left or right side of cockpit. Mouse tray mounts on either left or right side of keyboard tray. Kit includes cup holder.



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<http://bit.ly/ow-keyboard1>



⚠ Using seat lift kit in flight sim setup is highly recommended for optimum flight pit seating position.



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 from a sim racing rig to a flight sim pit effortless. All controls are hard-mounted for maximum strength, handling the most aggressive gamer 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 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 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 OpenWheeler Gen3 sim racing cockpit or SimFab modular flight sim pits, and cockpits.



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. Thrustmaster HOTAS T.Flight stick and throttle
2. Thrustmaster T16000M stick and throttle
3. Thrustmaster TCA AirBus
3. Logitech/Saitek X52, X52 Pro, X56
4. VKB Gladiator Stick
5. CH Products stick and throttle
6. Hori stick and throttle

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<http://bit.ly/ow-flight1>



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. VKB Gunfighter stick
4. WinWing stick bases and Orion throttle

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<http://bit.ly/ow-flight2>



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

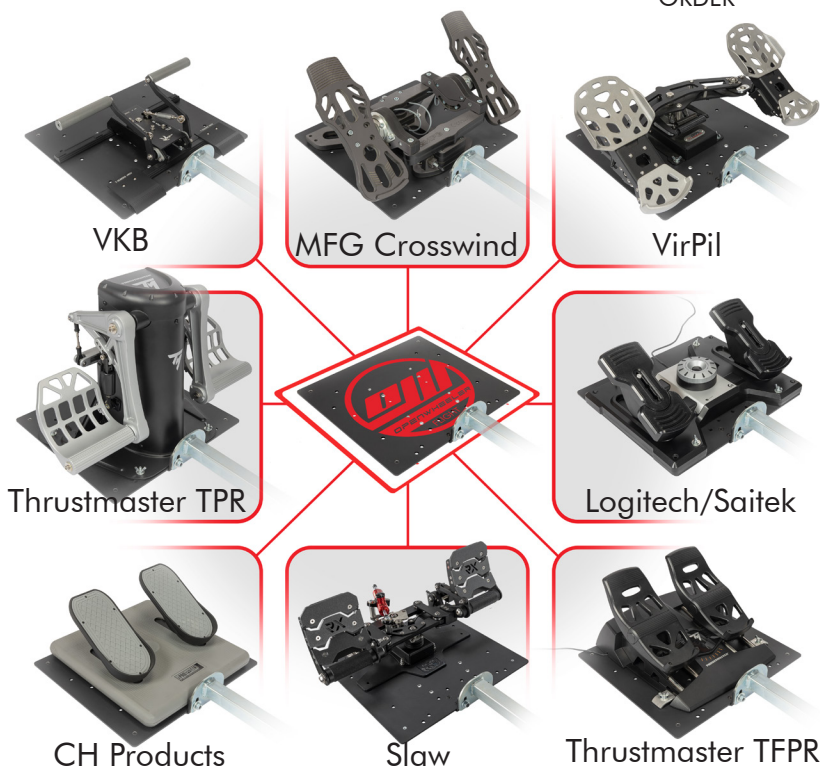
Configuration #4 consists of dedicated rudder pedal plate and shaft connected to seat frame. Rudder pedals are optional for lower end flight sticks within configuration #1 family, with built in yaw movement by twisting flight stick grip. Rudder pedal plate is required with higher end flight controls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

<http://bit.ly/ow-flight4>



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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.

<http://bit.ly/ow-flight5>



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



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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<http://bit.ly/gripestension>



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**

Universal Mount Cup Holder



Surround rear speakers bar holder.
Mounted on backrest seat.



Armrest kit



<https://amzn.to/3eo87Xh>



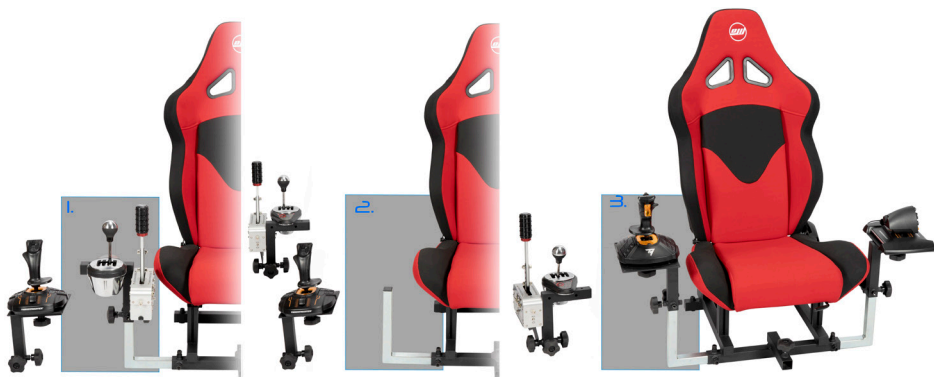
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Pedal plate foot rest

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



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>

