

DD conversion kit for OpenWheeler Gen3 sim racing cockpit



Assembly instruction manuals available at:

V3.3 110124

<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.



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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

SimFab offers wide range of dedicated and specialized flight simulation cockpits 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 (optional)

⚠ If you own earlier version of Gen3 without pedal support bracket adjustment feet, please reach out to us with your order number to receive updated part at no additional cost.

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:

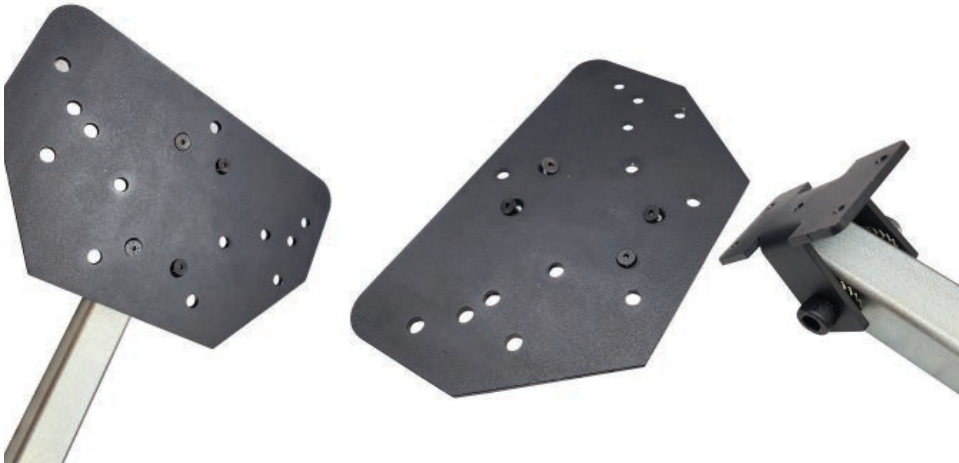
18. Torpedo magnetic level
19. 3mm hex key

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



update image

3. Mount wheel base to steering plate

update image



Steering wheel mounting pattern

Logitech

Logitech Pro

Thrustmaster

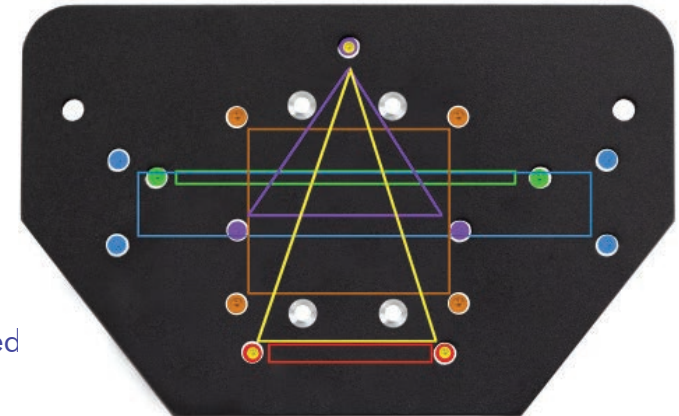
Fanatec 1

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, not supplied with matching mounting pattern holes. info@SimFab.com

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



5. Slide in T-extensions into seat frame. Ensure both T-extensions are installed at equal distance from frame. Leave them loose until all rest parts are installed. Lastly, verify plumbness, square and parallel relation of all parts prior tightening all hardware.



6. Install small knobs on top welded nuts (or pre-installed set screws) and leave them loose.

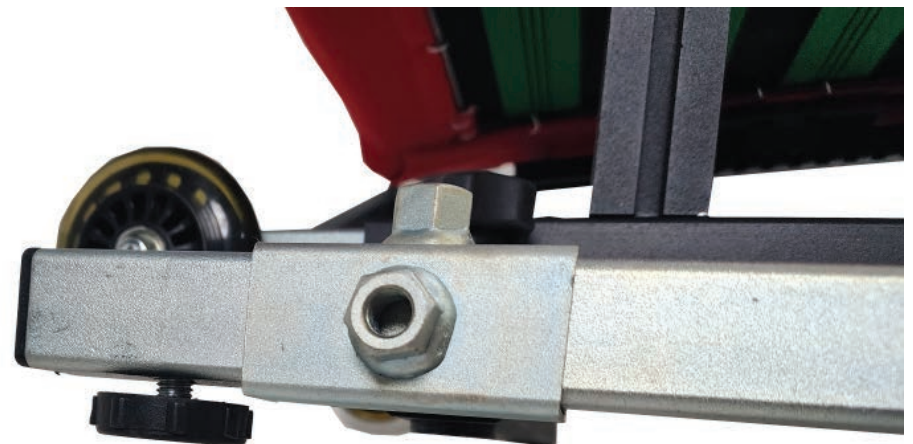
7. Slide side main tube to T-extensions. At Half way slide 4way coupler if manual shifter is used



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

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.

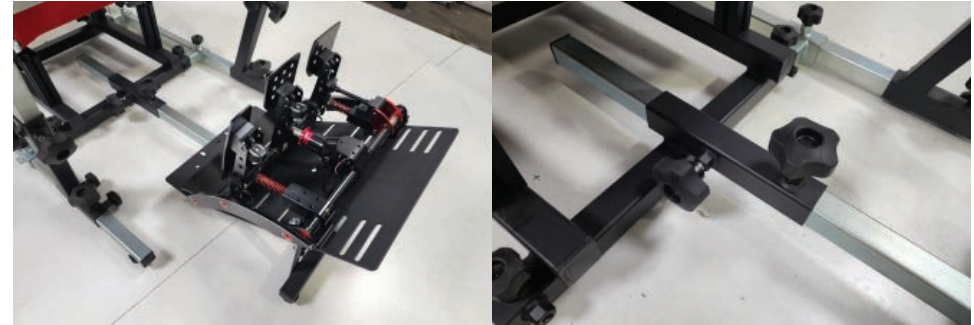
20. Adjust wheel height and level horizontal bar by using included magnetic torpedo level.



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



Installation and use of flight sim add-ons to DD frame (chassis).

⚠ To maintain squareness of DD frame, loosen one part and section at the time. Go back to DD kit installation process if frame or parts go out of alignment and no longer plumb and square.

Adding 4way couplers to side rail (left or right side)

Lift either side of seat and remove leveling feet. Use 2nd person to assist during process.

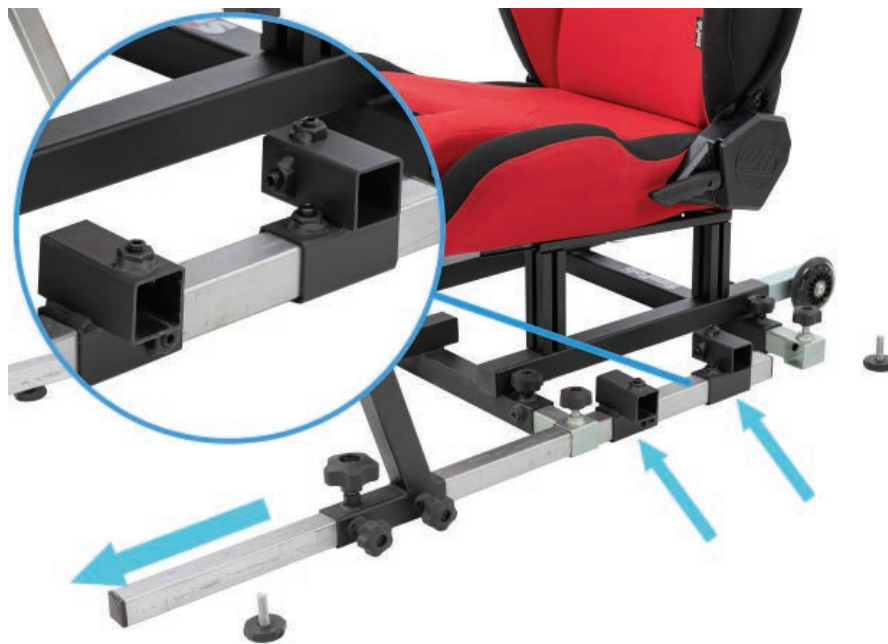
Loosen all three knobs on lower side of upright post and two knobs securing side rail to T-extension brackets.



Slide side rail forward and install 4way couplers.

⚠ Illustration below shows pair of couplers installed for helicopter sim collective bracket and fighter jet throttle. Install 4way couplers in the direction as shown. Use set screws placement as reference.

It is recommended to use helicopter collective bracket as stand alone unit, however fighter jet throttle can be installed at the same time.



Install back leveling feet, tighten all knobs and bolts. If necessary re-align all parts to keep framework square and plumb.

⚠ Coupler can be installed in front or behind T-extension brackets depending on personal preference of arm reach to controls.

Use either long or short arm of lower L bracket depending on height position preference.

Turn upper L bracket for stick and throttle pointing sideways (default), forward (+3" reach) or backwards (-3" reach).



Follow installation instructions for collective control in collective manual. Install 4way coupler in reverse to bring collective closer to seat.



Install throttle lower L bracket to front 4way coupler. Install upper L bracket with plate and throttle to lower L bracket. Make final adjustments. Ensure all set screws, bolts and knobs are tight.



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.



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>

