

OpenWheeler Flight Simulator Add-on Kit

Configuration #3 Combat Simulation

Side By Side Throttle and Stick, HOTAS

Assembly Manual

And

Optional Accessories



Assembly instruction manuals available at:

V1.2 102924

<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.



Table of Contents



If your item is damaged, defective or missing parts, please contact us first directly at Email: info@HomeRacer.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@HomeRacer.com

Parts list.....	2
Flight sim add-ons, modular design introduction.....	5
Transition and hot swap between sim racing, and flight sim.....	11
Flight sim add-on kit, Configuration #2 compatibility	12
Universal side brackets installation.....	13
Plates installation.....	15
Flight controls installation and mount pattern.....	16
Specifications, Warranty, Terms and Conditions.....	28

Parts list

1. Upper L bracket (2)
2. Lower L bracket (1)
3. Lower L bracket mounting hardware (2)
 Use 2nd lower L bracket from base package: Gen3 OpenWheeler sim racing cockpit. In case you are missing 2nd lower L bracket, please reach out to us for replacement.
4. Flight controls stick lower plate
5. Flight controls stick upper (stick base cover) plate
6. Flight controls throttle plate
7. Upper L brackets quick disconnect knobs (4)
8. Stick lower plate and throttle plate to upper L bracket hardware: bolts (4); washers (4); lock washers (4); nuts (4); 4mm Hex key
9. Throttle control to plate mounting hardware:
 - a) Thrustmaster Warthog, WinWing Orion throttle: bolts (4); washers (8); lock washers (4); nuts (4)
 - b) VirPil throttle mounting hardware: bolts (4), 3mm hex key
10. Stick upper plate (stick base cover) to lower plate hardware: bolts (4); washers (8); lock washers (4); nuts (4)
11. Stick mounting hardware:
 - a) Thrustmaster Warthog, VirPil, VKB sticks mounting hardware: bolts (4); 2.5mm hex key
 - b) WinWing stick mounting hardware: bolts (4)
12. Velcro ties for cable management (6)
 Use wrenches included in base package: Gen3 OpenWheeler sim racing cockpit:
 - * 5mm Hex Key
 - * 8mm Hex key
 - * 10mm combo flat wrench

⚠ 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. Standalone complete flight sim pits, dedicated for flight simulation only will be offered shortly.

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

SCAN TO
ORDER



<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

SCAN TO
ORDER



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



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

<http://bit.ly/ow-flight3>



SCAN TO
ORDER



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. 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>



SCAN TO
ORDER



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.



SCAN TO
ORDER

<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



SCAN TO
ORDER

<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



<http://bit.ly/gripestension>

SCAN TO
ORDER



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**

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



Compatibility

Flight sim add-on kit configuration #2 is compatible with the following brands and models:

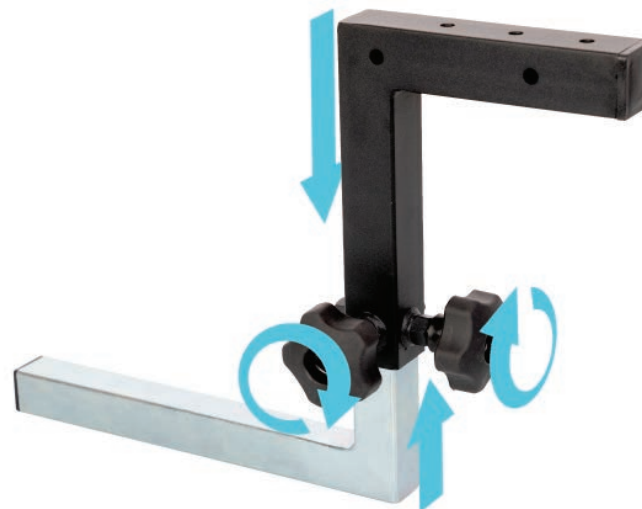
1. Thrustmaster Warthog stick and throttle
2. VirPil Sticks, throttle and control panels
3. WinWing sticks and Orion throttle
3. VKB Gunfighter stick



Installation

Universal side brackets installation

1. 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.



2. Use flathead screwdriver to wedge out plastic cap from front/side frame tube.



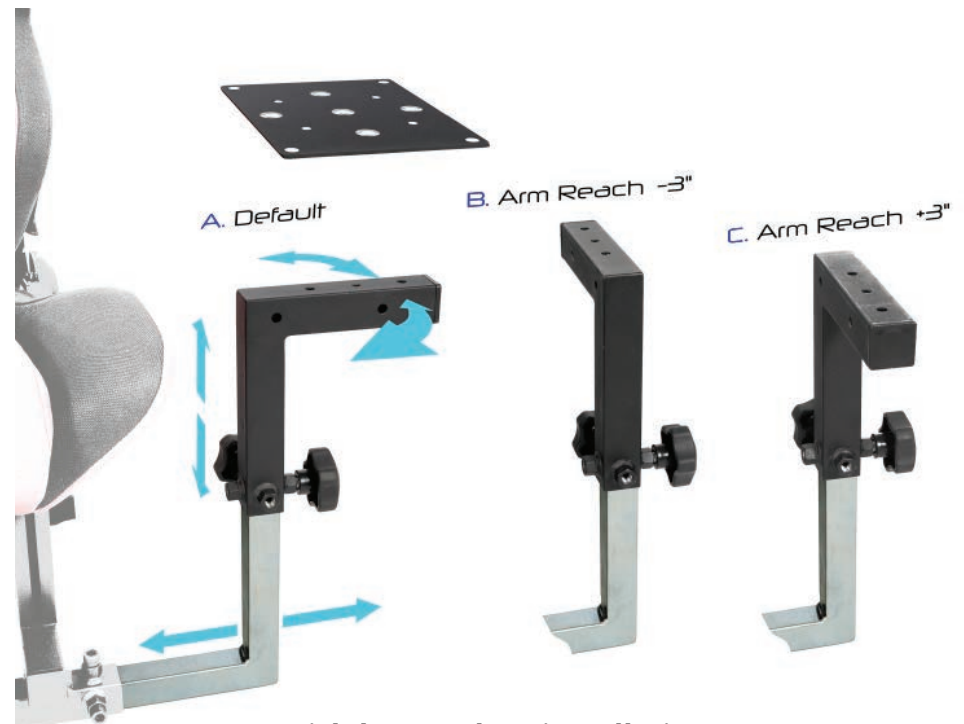
3. Insert lower "L" bracket to front/side tube of the seat frame. Install pair of bolts into welded nuts of the frame.

⚠ 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.



Stick lower plate installation

4. Mount stick lower plate and throttle plate to upper support brackets by using pair of countersink bolts, washers, tooth washers and nuts per plate.



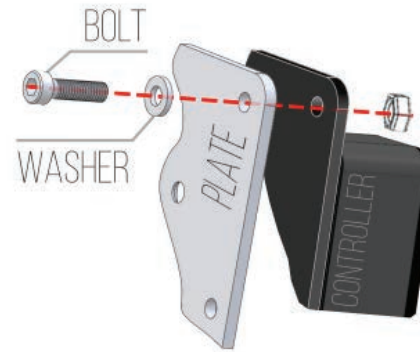
5. Remove stick base factory plate from Warthog, VirPil and VKB flight sticks and replace it with OpenWheeler upper (stick base cover) plate.

⚠ WinWing flight stick does not require factory plate removal.

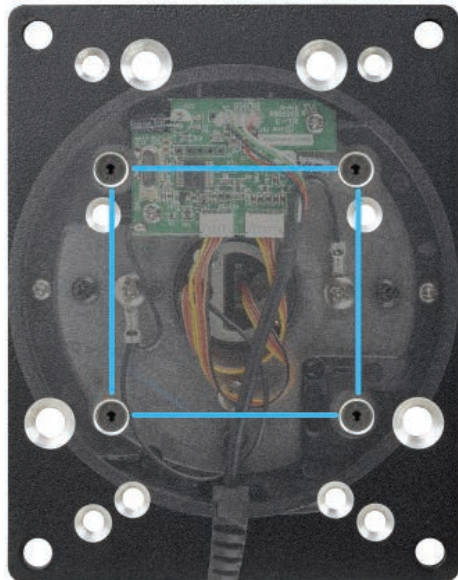
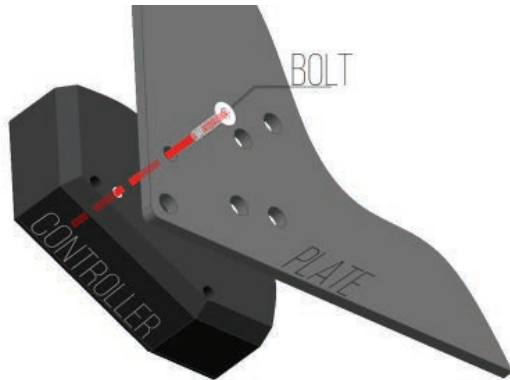
6. Depending on brand and model controls use included mounting hardware to hard mount stick and throttle to each plate.

Controls mount pattern:

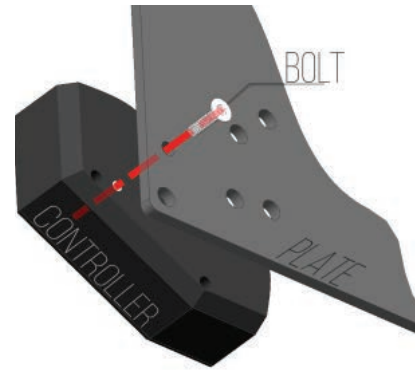
Thrustmaster Warthog throttle



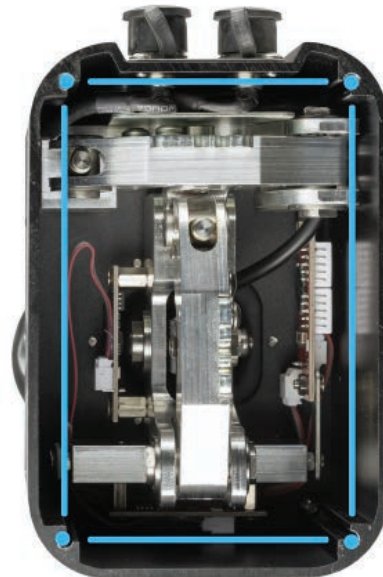
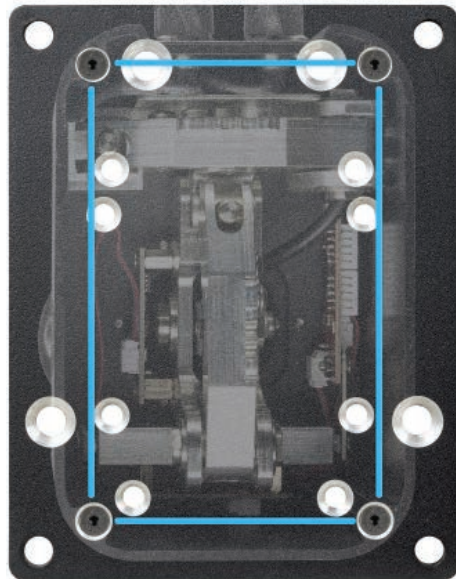
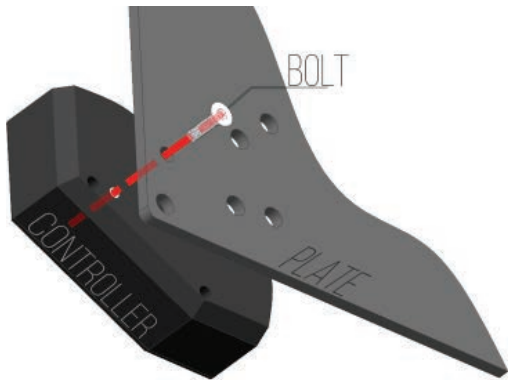
Thrustmaster Warthog stick



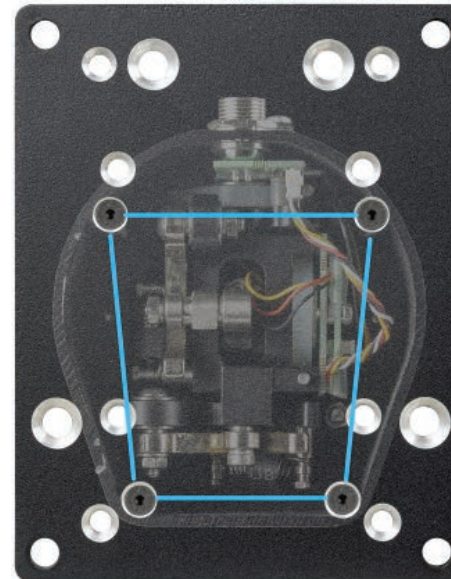
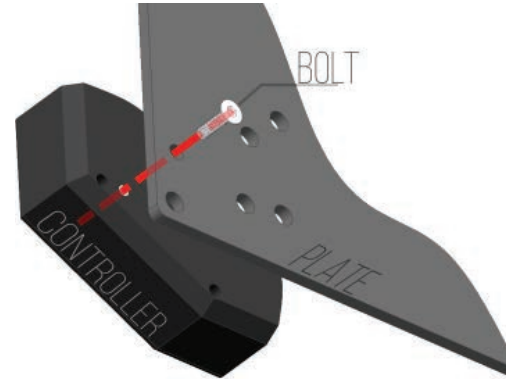
VirPil Throttles and Control Panels



VirPil stick



VKB Gunfighter Stick



WinWing stick

⚠ WinWing flight stick does not require factory plate removal.



Flight Stick upper (base cover) plate to lower plate installation

7. Mount upper to lower stick plate by using included mounting hardware.



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>

