

SimFab

Rotorcraft Flight Sim

Modular Cockpit



- * Seat Frame Installation
- * Seat Lift Kit (Spacers) installation
- * Seat assembly



WARNINGS:



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



Assembly instruction manuals available at:

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

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Parts List

1. Seat
 2. Floor felt pads
 3. Seat frame
 4. Seat lift kit with seat frame hardware
 5. Additional seat frame quick release knob
 6. Cable management Velcro ties
 7. Wrenches
 8. Metal parts, modular assembly kits:
Seat frame rear extension kit
#4, rudder plate assembly kit
#6, centered stick/cyclic lower mount bracket kit
#11, collective bracket kit
-  Refer to kit box with parts and assembly manuals for each add-on kit



Seat Lift Kit (Spacers) Installation

Parts and tools included in the kit:

- 4x seat frame spacers (2x short/rear and 2x long/front)
- 4x spacer bolts (pre-installed)
- 4x seat frame hardware (bolts and washers)



Fig. 9

- Note:** Spacers are cut at angle to provide 5 degrees seat tilt. Therefore, each pair spacers have specific front/rear side and top/bottom direction to seat/frame. Refer to labels on each spacer.

1. Remove pre-screwed bolts (shorter bolts) from spacers and use them to mount spacers to the rails.

2. Slide seat rails all the way to forward position.



Fig. 10

3. Install longer spacers to front rails by holding the spacer bolts with one hand and screw on the spacer to the bolt with the other hand.

* Leave spacers loose on the bolts in order to align them with the frame at later step.



Fig. 11



Fig. 12

• Front spacers should point out with stickers forward as shown.



Fig. 13

4. Slide the rails all the way to rear position and install the rear spacers same way as front ones.

• Rear spacers are shorter than front and stickers should point backwards as shown.



Fig. 14

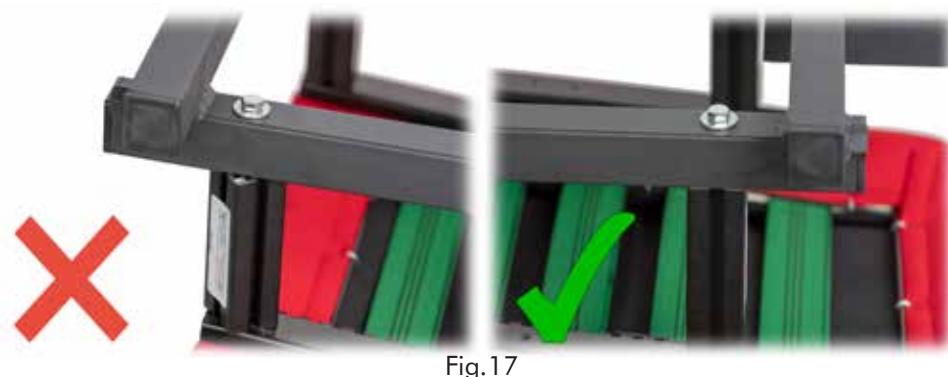
5. Place seat frame on top of the spacers and align the frame holes to match with spacers holes.

6. Mount seat frame with original (longer) bolts and washers to the spacers by hand.

* Leave bolts loose in order to align them with the frame, after all four are bolted on.



7. Align spacers at correct direction, square with frame.



8. While holding each spacer straight with the frame, tighten up the frame bolts with the 13-flat wrench.



9. Use the close end of 13-flat wrench to tighten spacers bolts. First rear ones. Slide rails all the way forward and tighten front ones.



10. If manual gear shifter is used on side of the cockpit: flip lower "L" bracket with longer arm pointing up and shorter arm going into the seat frame. Adjust upper L bracket accordingly to level the shifter with the raised racing seat.

11. Flip racing seat with side up, make final adjustments and tighten up all knobs and bolts.

Seat installation



Fig.21



Fig.22

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



Fig.1



Fig.2

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.



Fig.3

- 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.



Fig.5

- 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.



Fig.4

3. "Easy Roll" wheel set or seat frame rear support kit. Insert wheel tube into rear side of seat frame until it bottoms out. Secure tubes with pair of bolts pre-installed to seat frame.



Fig.24

- To move the cockpit around or out of the way, lift front of chassis by the lower support bracket until "Easy Roll" wheels touch the floor.



Fig.25

Armrest Kit With 4way Adjustment And Optional Accessories



Assembly instruction manuals available at:

V2.1 121222

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

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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. Arm rests (left and right)
2. Arm rest bracket set (2)
3. Arm rest bracket set mounting hardware (pre-mounted)
4. Arm rest brackets plastic cover
5. Adapter plates (2)
6. Mounting hardware:
 - Bolts (4)
 - Washers (8)
 - Lock washers (4)
 - Nuts (4)
7. Tools
 - 13mm combo wrench
 - 5mm Hex (Allen) key



Pre-installation check list and parts orientation

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

All parts are marked with left/right, top/bottom, rear/front orientation.

⚠ Ensure correct orientation is followed accordingly



Arm rest brackets installation

Remove pre-installed hardware.

Slide arm rest plastic cover to arm rest lower side.

Install left bracket to left arm and right bracket to right arm.

⚠ Arm rest brackets have reinforcement indentation which should match plastic cover shape. Use as point of reference pair of adjustment buttons on arm rest pad should be on the same side as bracket.

Tighten down all 4 bolts on both arm rest with included Allen wrench.

⚠ Do not over-tighten hardware to avoid stripping or irreversible damage



Seat lift kit and seat frame partial disassembly

Disassemble Seat frame and seat lift kit (spacers) one side at the time.

For frame and spacers disassembly instructions refer to the following link or scan QR code:

<https://bit.ly/liftkit-01>



⚠ Helper for the following steps is highly recommended.

Remove spacers lower side bolts (one side of racing seat at the time).

Gently slide seat rail all the way back. Loosen upper bolt and unscrew front spacer while holding upper bolt with wrench or finger tip.

⚠ Additional person holding seat slightly lifted up while removing spacer is recommended.

Slide seat all the way forward and repeat above steps for rear spacer.



After both spacers are removed, place front spacer approximately at center of frame tube and use it as a temporary seat support while preparing arm rest adapter plate.



Arm rest adapter plates installation

Have a helper lift up seat slightly on the same side being worked on. Install adapter plate between seat rail and seat spacers with correct orientation as per sticker on each plate.

Tighten rear spacer and bolt to it same way as removal steps in reverse.

Repeat process at front side.

Install back lower side bolts. Ensure seat spacers are installed correct orientation according to top side angle cut.

Repeat process on the opposite side of seat.



Arm rest to adapter plate installation

Choose either set of mounting holes and mount arm rest to adapter plate. Ensure correct side arm rest is installed to left/right side accordingly as per arm rest indication beneath each pad.

Hand tight hardware with following order top to bottom:

bolt, washer (top side of plate)

washer, lock washer, nut (bottom side).

Adjust angle of arm rest to personal preference and pit setup.

Repeat process on the opposite side.



Arm rest pads 4-way adjustment

Arm rest pads have further adjustment on the go in four directions:
up/down
forward/backward
inward/outward
angle

Make final adjustments of adapter plate angle and arm rest pad and enjoy your fun time! We hope you like it!



Install seat backrest to seat base.

1. Seat Assembly

- Remove pre-installed pair of recliner mechanism bolts on left side of the backrest and hinge bolt on right side of the seat base.



Fig.3

⚠ Following sequence of assembly steps is crucial for frustration free installation of seat backrest to seat base.

- Align backrest with seat reclining arm on the left side. Hand tight single hinge bolt on right side **first**. Even if left side is not aligned perfectly, focus on aligning right side with single hinge bolt.
- Guide left side of backrest to match either one of the backrest threaded insert with reclining mechanism arm hole and hand tighten bolt.
- Align 2nd threaded insert with recliner arm hole and hand tighten bolt.
- Tighten all 3 bolts by included wrenches.

Fig.4



- 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.



Fig.5

Seat Frame Extension Kit

Assembly Manual



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.



Assembly instruction manuals available at:

V3.2 081723

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

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Parts List

1. Seat extension tubes (2)
2. Rubber knobs (2)

⚠ Use wrenches included in base package sim racing or flight sim cockpit:

- * 5mm Hex key
- * 8mm hex key
- * 13mm combo flat wrench



1. Remove "Easy Roll" wheel tubes from seat frame by using large Allen key (8mm).



2. Remove rubber wheels from short tubes and install them on long extension tubes with correct side and direction as shown. Use small Allen key (5mm) and open wrench (13mm). Ensure nuts are not over tight. Wheels should spin freely.



3. Flip wheel tubes with wheels pointing up when not being used. Adjust knobs until there is tension between knobs and floor. Ensure knobs, rear and front frame pads are leveled. Ensure knobs are not over extended and do not lift seat frame. To use wheels, flip tubes with rubber knobs pointing up.



Flight Simulator Add-on Kit
Configuration #4
Rudder Pedal Plate
Assembly Manual
And
Optional Accessories



Assembly instruction manuals available at:

V3.2 102924

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

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WARNINGS:



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

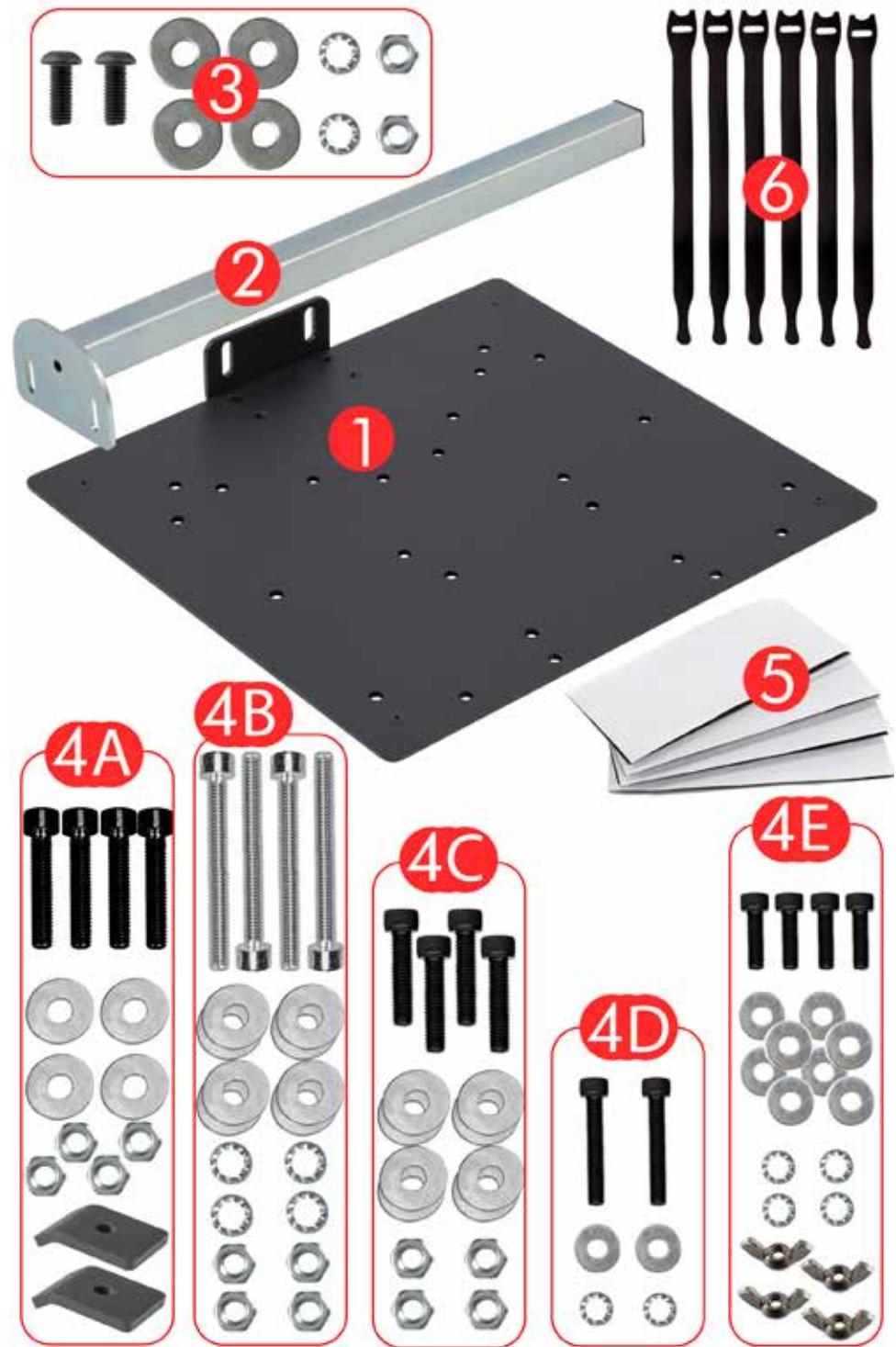


Parts list

1. Rudder pedal plate with mounting bracket.
2. Rudder pedal plate shaft.
3. Rudder pedal plate to shaft mounting hardware.
4. Various controls mounting hardware:
 - ⚠ All controls mounting bolts are installed upside down except WinWing pedals (bolt heads on floor side).
- A. Thrustmaster TFRP, VirPil Torq, WinWing Skywalker
- B. Logitech (Saitek)
- C. MFG Crosswind
- D. VKB T-Rudders Mk.IV
- E. TPR, VirPil Ace Interceptor/Collection, Slaw Viper, Turtle Beach Velocity One
5. Vecro strips for rudder pedals not equiped with through holes or inserts. (4)
6. Velcro ties for cable management (6)

⚠ Use wrenches included in base package cockpit.

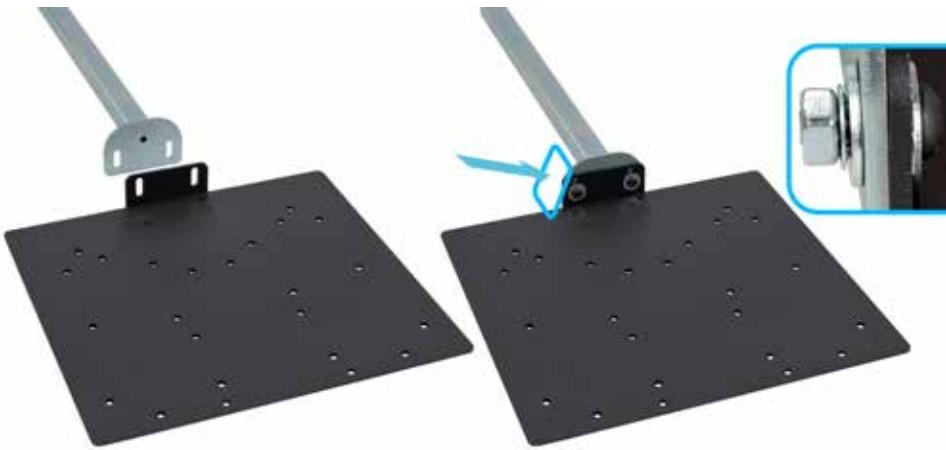
- * 5mm Hex key
- * 10mm combo flat wrench
- * 13mm combo flat wrench



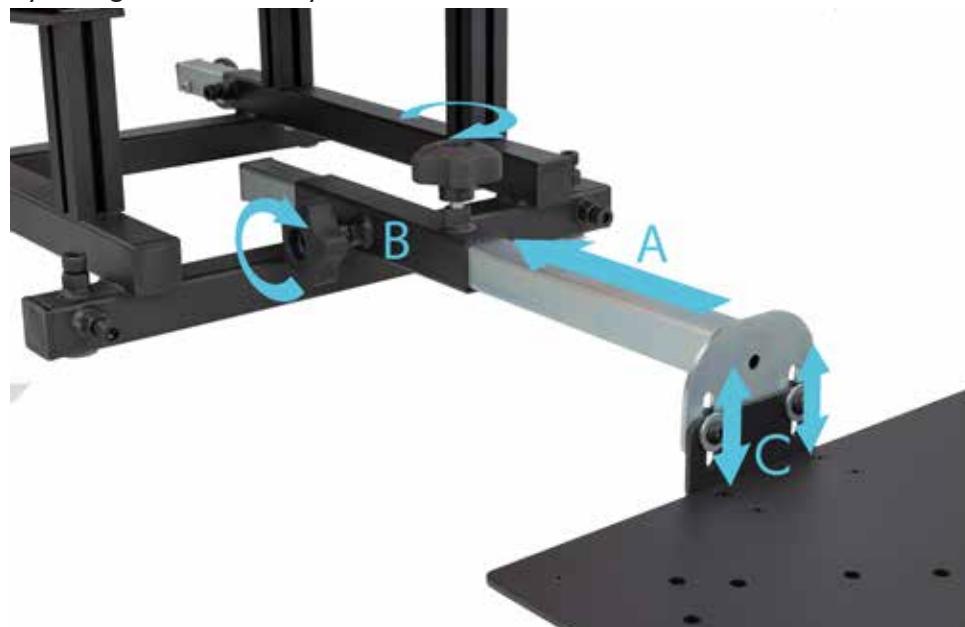
Installation

Pedal plate and shaft assembly

1. Install hardware connecting pedal plate with shaft, leave hardware hand tight.



2. Rudder pedal plate assembly to seat frame installation.
 - A. Slide in shaft to seat frame
 - B. Tighten quick release knobs
 - C. Adjust plate to lay flat on floor and tighten plate mounting hardware by using 5mm hex key and 13mm combo wrench.



Rudder pedals installation

3. Install controls mounting hardware upside down with bolt heads facing the floor.

⚠️All controls (except WinWing rudders) mounting bolts are installed upside down (bolt heads on floor side).



Rudder pedals mounting pattern

Saitek/Logitech

ThrustMaster TFPR

ThrustMaster TPR

VirPil Ace Interceptor / Collection

VirPil Ace Torq

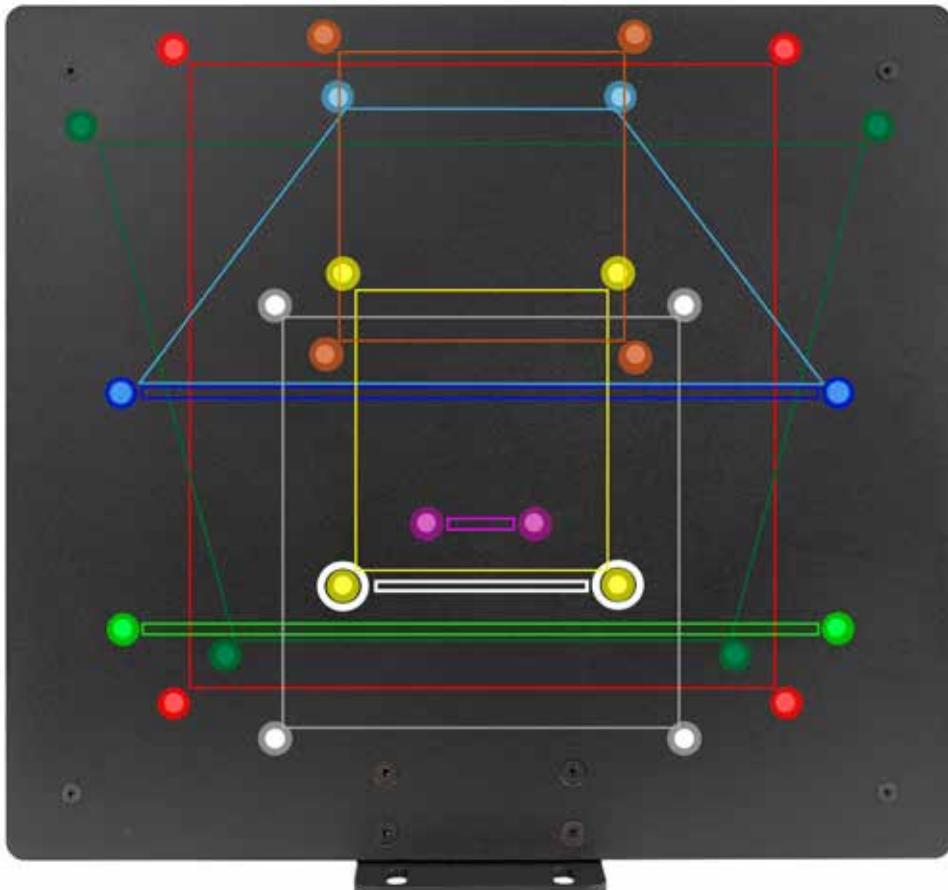
MFG CrossWind

VKB Sim and Turtle Beach Velocity One

CH Products - use Velcro strips

Slaw Device Viper

WinWing Skywalker



4. Thrustmaster TFPR rudder pedals holding tabs installation.
Align rudder pedals along with plate mounting holes and clamping marks as indicated on pedals.

Clamping holding tabs elsewhere may damage pedals plastic.



5. VirPil Collection / Interceptor rudder pedals.

⚠ Remove factory base bracket held by four bolts and mount pedals to OpenWheeler rudder pedal plate.



6. VirPil Torq rudder pedals holding tabs installation.

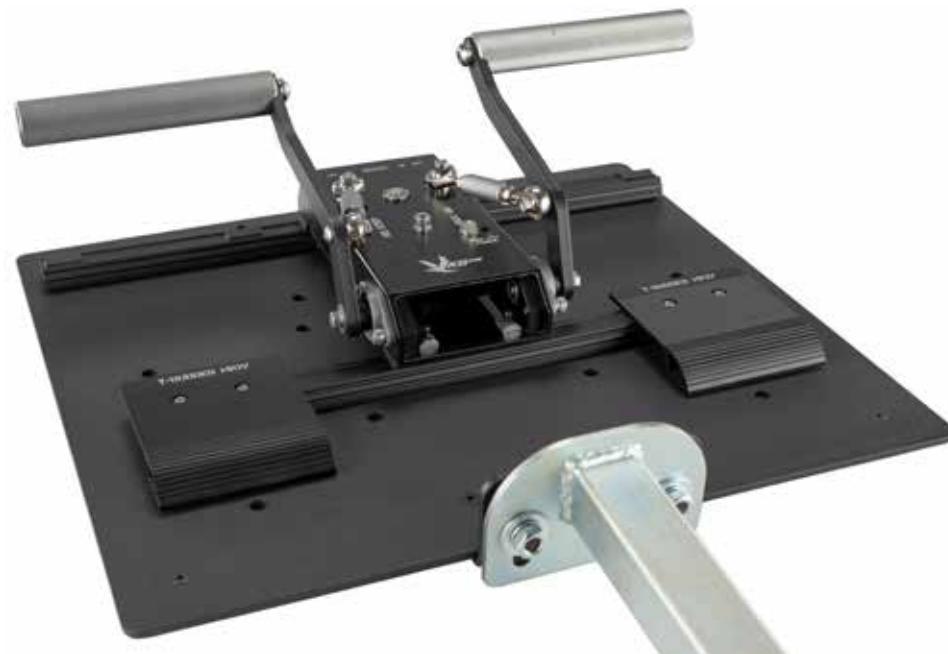
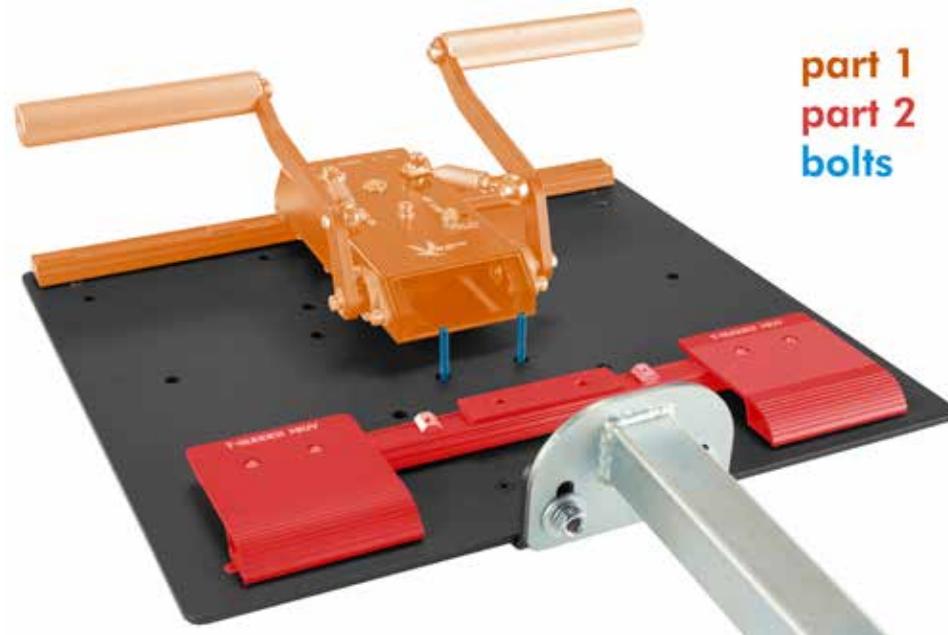
⚠ Use holding tabs and hardware to secure rudder pedals to plate.



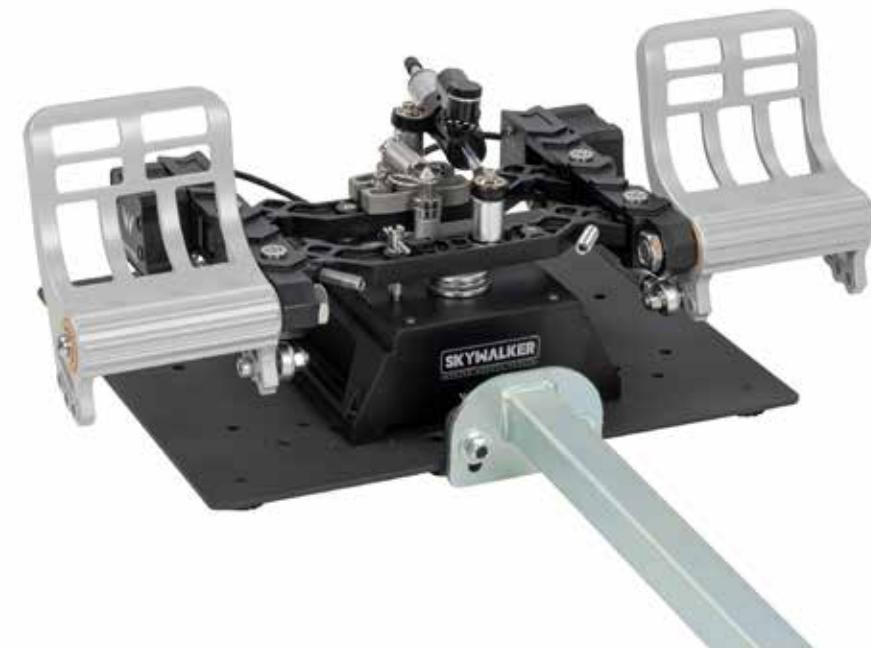
7. VKB T-Rudders Mk.IV rudder pedals.

⚠ Remove factory inserts and bolts holding rudder rear feet as shown, and replace them with hardware as labeled through pedal plate.





8. WinWing Skywalker (Orion) rudder pedals.
Use rudder kit hardware, bag 4A: 4 bolts M6x25mm, 4 washers, 4 nuts.
⚠️ WinWing rudder pedals are the only ones with bolts installed right side up: bolt head top of rudders, washers and nuts bottom of plate.



Flight Simulation Add-on Kit
Configuration #6
Centered Flight Stick Lower Mount Bracket
Assembly Manual
And
Add-on Accessories



Assembly instruction manuals available at:

V4.4 102924

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

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WARNINGS:



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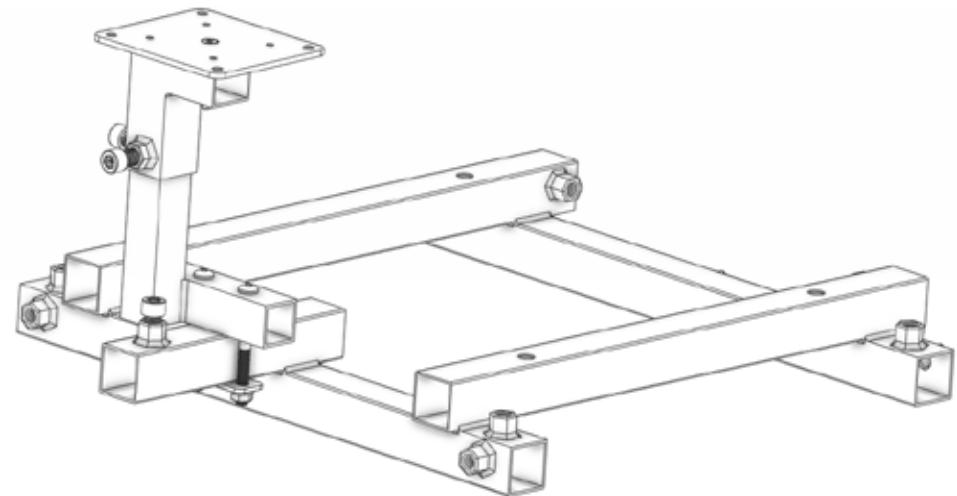
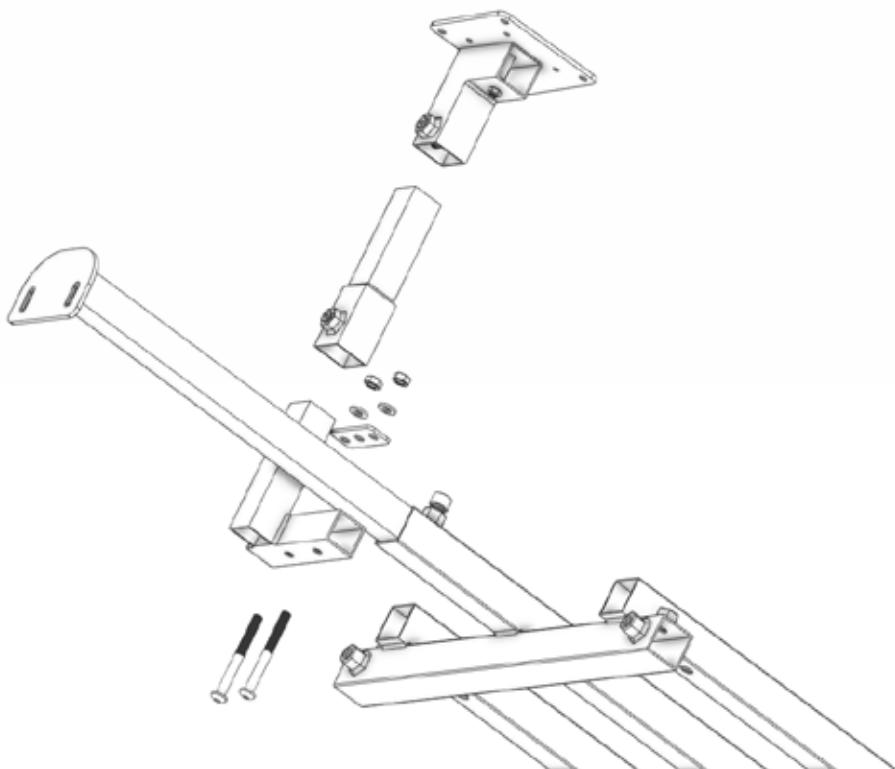
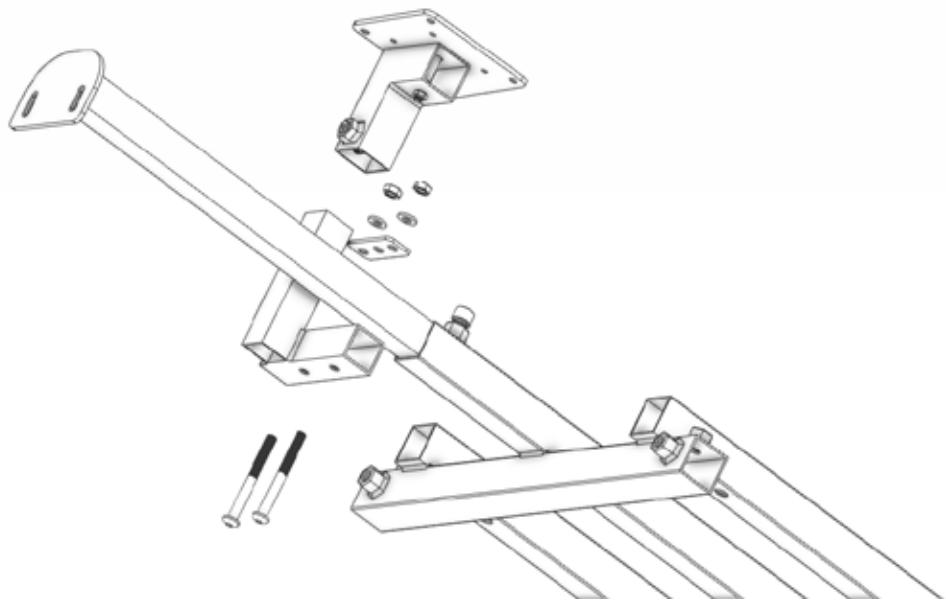


Introduction

Centered stick lower mount bracket is dedicated to 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 beneath main support tube. With added extension tube, as high as 16.5" from floor to base plate, with bracket mounted over main support tube. 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).
- Plates are pre-drilled to accommodate the following sticks and stick bases: Thrustmaster Warthog, all Virpil, VKB, WingWin.
- Bracket is clamped beneath or over main support tube. Optionally it can be clamped on seat frame center tube.





Installation

1. Mount lower bracket beneath tube for lowest height adjustment. Clamping bolts are mounted upside down. Recommended clamp on bracket on seat frame center tube for closest arm reach. Replace top mounted knob with supplied bolt for clearance. Use 17mm open wrench to tighten or loosen bolt without removing bracket. Ensure bracket is clamped far enough from side knob to allow knob release if needed.

Clamp on bracket on main support tube optionally.

⚠ Ensure clamping bolts have equal tension and clamping tab lays flat against main support tube.

⚠ Ensure tab and bracket are square to tube they are clamped on.

Mount lower bracket on top of main support tube for highest height adjustment.

⚠ Clamping bolts are mounted right side up.

⚠ When center mounted stick is not being used, remove upper bracket along with the stick attached to it and leave lower bracket clamped on seat frame.

Bracket clamped beneath frame center tube. Clamping bolts are installed upside down.



Bracket installed at lowest setting with longest grip extension (configuration #7)



Bracket installed on top of tube for taller setting. Bolts are installed right side up.



Bracket extension added for high mount setting of stick base. Use extension if necessary.,



62

Stick without grip extension installed with bracket high mount setting.



63

Install bracket extension tube if necessary to achieve highest height adjustment. Normally used when stick is used without grip extension. Gently tighten down set screws pre-installed on two adjacent sides of tube extension until tube is secured and straight. Do not over tighten set screws.

Stick lower plate installation

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

⚠ Illustration below shows plate mounted to side bracket. Principle is the same as center bracket. Ensure plate has centered relation to rudder plate shaft.



5. Remove stick base factory plate from Warthog, VirPil and VKB flight sticks and replace it with SimFab 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.

Stick mounting hardware

10. Stick upper plate (stick base cover) to lower plate hardware:
bolts (4); washers (4); lock washers (4); nuts (4)

11. Stick mounting hardware:

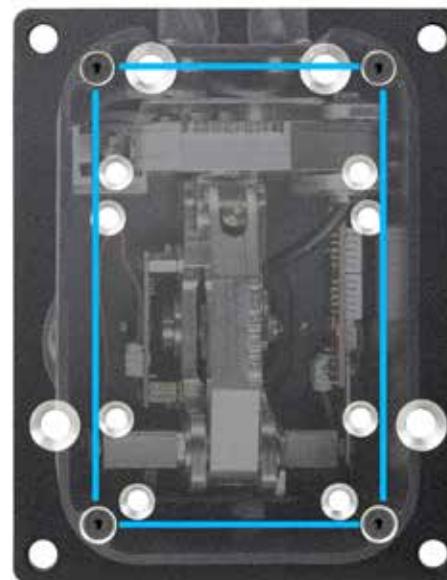
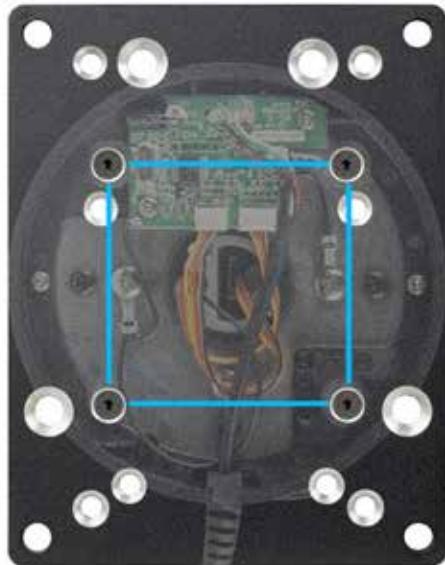
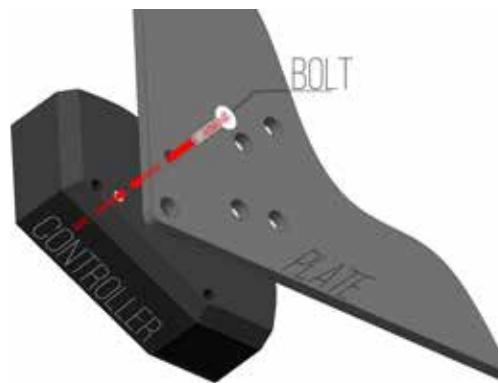
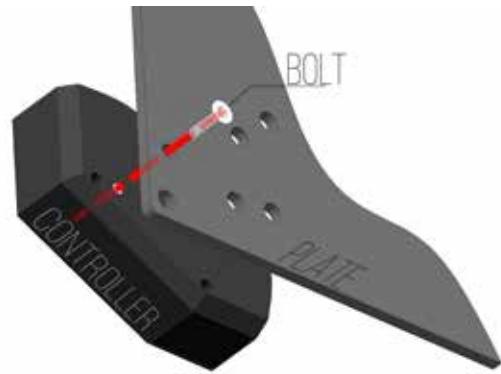
- a) Thrustmaster Warthog, VirPil, VKB, WinWing Orion2 sticks mounting hardware:
bolts (4); 2.5mm hex key
- b) WinWing Super Taurus stick mounting hardware: bolts (4)



Controls mount pattern:

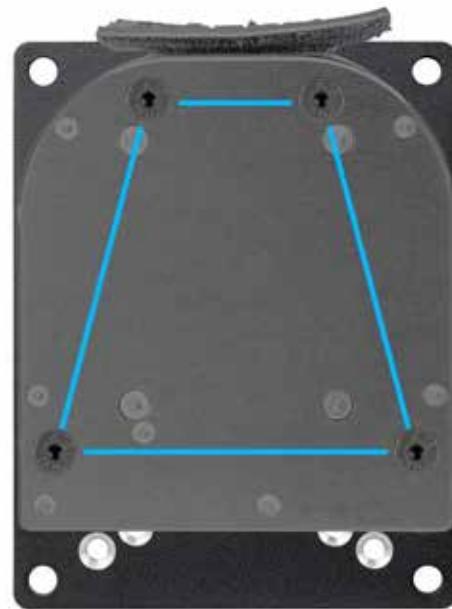
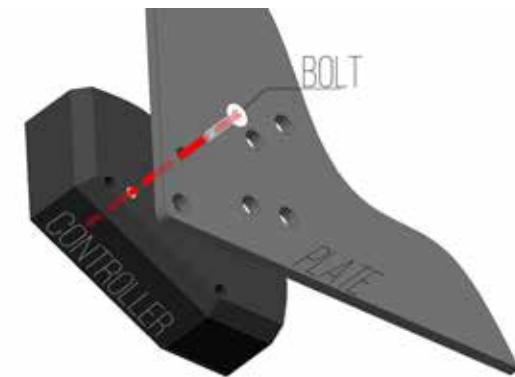
Thrustmaster Warthog and WinWing Orion stick

⚠ Thrustmaster Warthog stick shown below, WinWing Orion stick has same mounting pattern. Cover plate may need to be rotated at 90 degrees depending on control model and mount pattern.



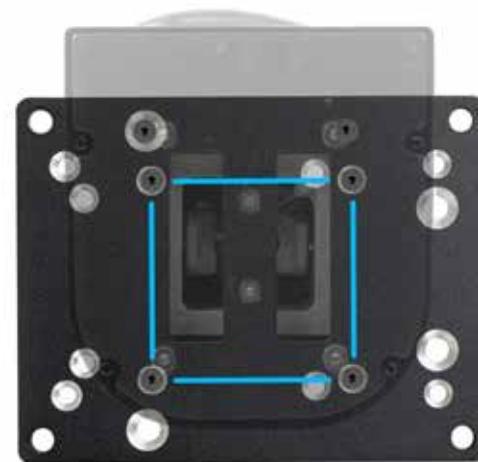
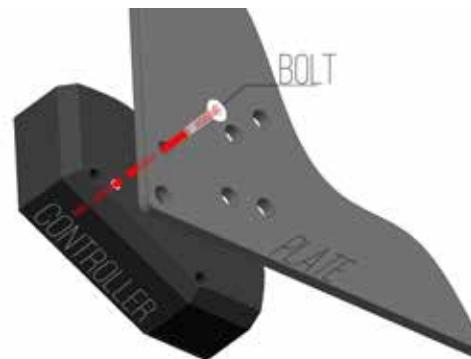
WinWing Super Libra stick

⚠ WinWing flight stick does not require factory plate removal.

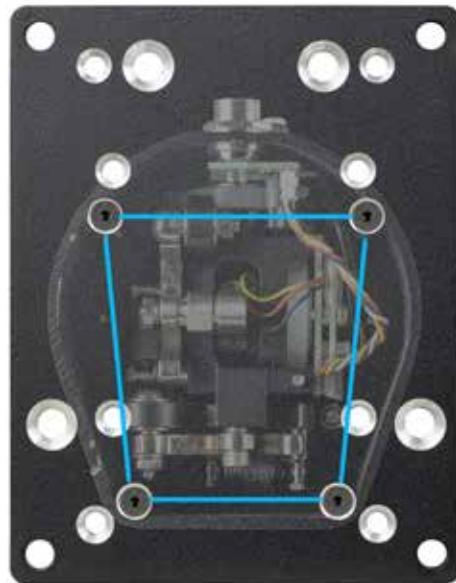
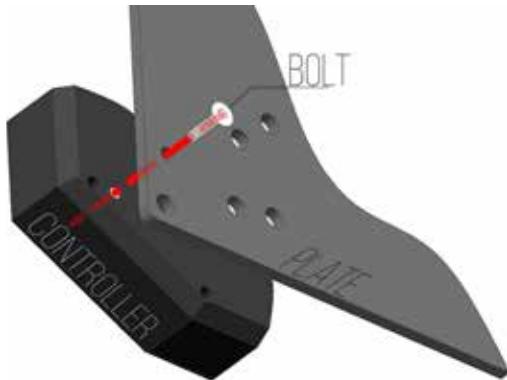


WinWing Orion Stick bases

⚠ Turn cover (upper) plate at 90 degrees and find matching holes. Use Thrustmaster Warthog and alike bases mounting hardware: M4x12mm countersink bolts.



VKB Gunfighter Stick



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

⚠ Illustration below shows plate mounted to side bracket. Principle is the same as center bracket. Ensure plate has centered relation to rudder plate shaft.

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



Sit comfortably on the seat and make final adjustments if necessary.

- Often used accessory with lower mount bracket is flight stick grip extension.



Flight Simulator Add-on Kit Configuration #11

Helicopter Collective Universal Mount Bracket Assembly And Optional Accessories



Assembly instruction manuals available at:

V2.3 110124

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

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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.

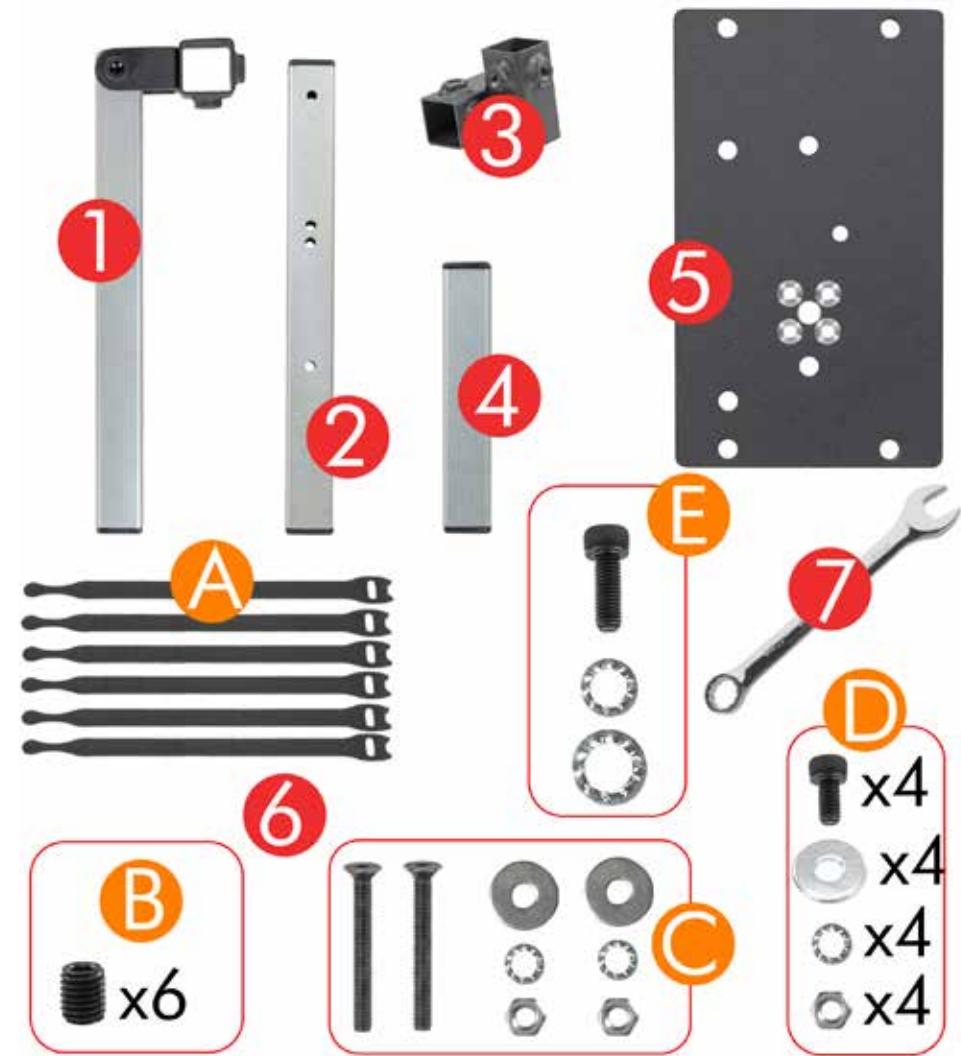
We prioritize your comfort, offering modular, fully compatible setups that adapt seamlessly to all major brands and control makers. Starting with affordable yet uncompromised quality base models, our products cater to both novice pilots eager to explore flight simulation and seasoned racers seeking upgradeable, 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.



Parts list

1. Pivot bracket assembly
 2. Collective arm bar
 3. 4way coupler
 4. Short connecting bar
 5. Collective universal plate
 6. Hardware
 - A. Cable management tie wraps (6)
 - B. M10x12mm set screws (6)
 - C. Plate mounting hardware:
M6x40mm bolts (2), wide washers (2), lock washers (2), nuts (2)
 - D. WinWing collective mounting hardware:
M6x15mm bolts (4), washers (4), lock washers (4), nuts (4)
 - E. VirPil collective base M8 retaining tooth washer.
VirPil collective counterweight spring kit bolt: M5x15mm and
M5 tooth washer.
 7. 8mm flat open wrench
- Use tools included in base package SimFab cockpit, not included in this kit
1. 17mm open wrench
 2. 10mm open wrench
 3. 8mm Allen key
 3. 5mm Allen key
 5. 4mm Allen key



Installation

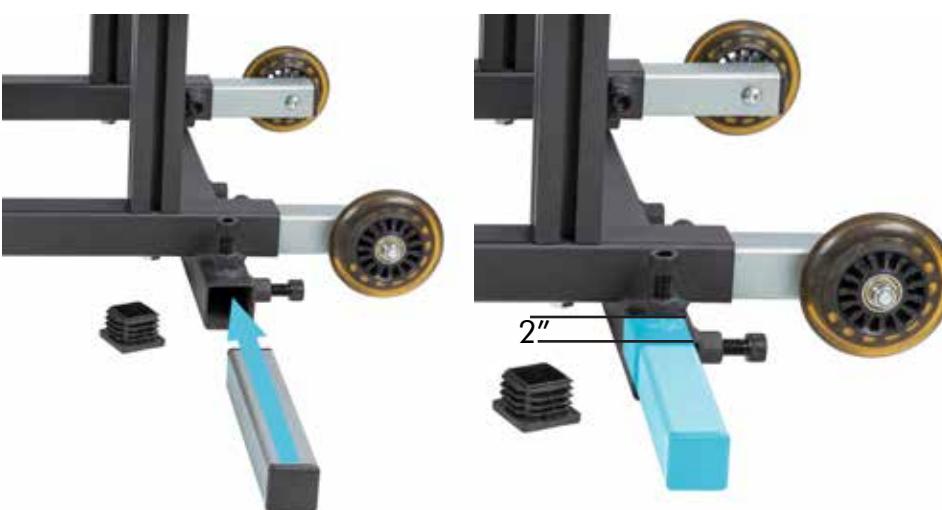
Bracket to seat frame installation.

Stand alone bracket (without "advanced modular side mount kit").
For installation with AMSM kit, skip to page 28.

1. Pry out frame side end cap at rear left corner of frame and pre-install pair of M10x20mm bolts.



2. Slide in short connecting bar to frame approximately 2 inches and tighten down both bolts. **⚠** Ensure there is enough tube inside frame to secure bolt to it.



3. Slide in pivoting adapter bracket to short connecting bar at the end and tighten down pivoting bracket by pair of M10x12mm set screws.

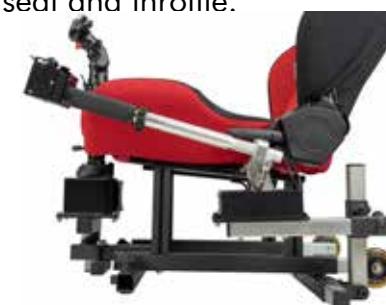


4. Slide down 4way coupler approximately half way and secure it to pivoting bar by pair of M10x12mm set screws.

⚠ Ensure 2way coupler is installed in the same direction as shown.



⚠ When collective control is used on stand alone bracket as illustrated above, it is recommended removing the fighter jet throttle bracket or using longer arm of lower L bracket mounted to seat frame for wider range of adjustment sideways, to make room for collective between seat and throttle.



Bracket to seat frame installation with “advanced modular side mount kit”.

5. Slide out AMSM assembly out of seat frame and slide in collective pivoting bracket assembly to rear T-extension approximately two inches in. Secure bracket by pair of M10x12mm set screws.



6. Slide down 4way coupler approximately half way and secure it to pivoting bar by pair of M10x12mm set screws.

⚠ Ensure 2way coupler is installed in the same direction as shown.



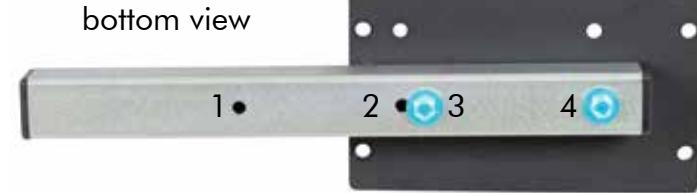
7. Next steps apply for both stand alone collective installation or collective with AMSM kit.

WinWing collective installation

⚠ For VirPil collective skip to page 33.

Install adapter plate to collective arm bar at third and fourth holes left to right) by using pair of M6x40mm bolts, washers and lock nuts.

bottom view



top view



8. Install WinWing collective base to adapter plate by set of bolts/washers, lock washers and nuts.



9. Slide collective arm bar to 4way coupler and secure it by pair of M10x12mm set screws.



10. Mount AMSM assembly back to seat frame.

Adjust Throttle distance to collective by sliding Lower L brackets in/out.

Adjust collective distance to seat by sliding T-extension in/out from seat frame. Ensure T-extensions have enough tube inside the frame to lock quick release knobs.

Adjust collective between throttle and seat by sliding it in/out on rear T-extension.

⚠ Ensure parallel relation between side rail and seat frame.



11. Collective grip adjustment.

A) Arm reach. Loosen pair of set screws on 4way coupler to arm bar and adjust fore/aft. **⚠** Refer to page 32 for grip base install behind pivoting tube. Applicable for longer grips such as VirPil Apache grip.



B) Collective base height. Loosen pair of set screws on 4way coupler to pivoting bracket bar and adjust up/down.



C) Pitch control angle range adjustment. Loosen pivoting bolt/nut and tilt bracket forward/backward.



12A. Use of collective with short grip.

Relocate collective bracket assembly to front tube of seat frame.

Reverse arm bar installation to collective base backwards.

Reverse pivoting bracket installation in front of short tube or T-extension bracket.

 Same collective adjustments apply.



12B. Use of collective with extra long grip (Apache style).

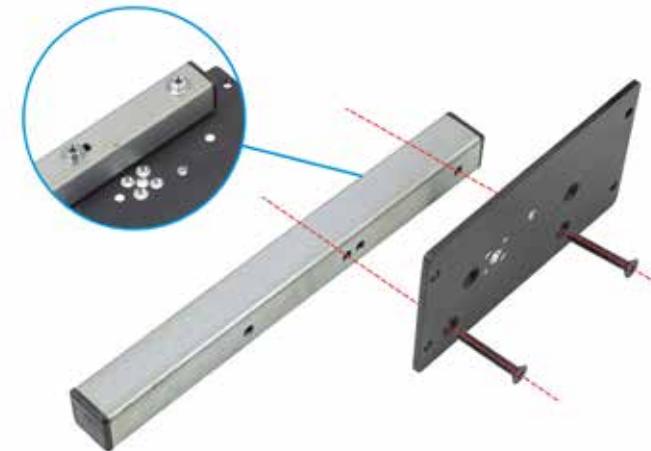
Mount collective behind pivoting tube as illustrated.

Mount arm bar in the mirror like reference to front of pivoting tube. Removal of plate and control is required to access bolts holding the arm bar.



13. VirPil collective installation with optional counterweight balance spring kit.

Install arm bar to plate by using pair of M6x50mm countersink bolts, washers, tooth washers and nuts. Use 5mm hex key and 10mm flat wrench.



Remove Virpil factory bracket held by M8 bolt (5mm hex key) and 4 Phillips head screws.



Remove pair of bolts by using 2.5mm hex key.



Install counterweight spring kit. Ensure loading block is set to upper position (loose spring) as illustrated.

Skip to next steps if kit is not being used.



Place counterweight spacer in spring coil with black keyway matching the direction of spring end and install SimFab adapter plate by using Virpil longer bolts. Add SimFab included tooth washer between M8 bolt and washer.



Install arm bar to 4way coupler. Tighten pair of set screws on 4way coupler by 5mm hex key.

⚠ Arm reach fine adjustments will be made last.



Ensure grip is set at highest pitch point for the lightest spring tension. Position spring end retainer washer with spring wire into the washer channel. Guide washer to plate hole with fingers and insert SimFab included M5x15mm bolt through plate and washer holes. Install Virpil included nut and SimFab included tooth washer to bolt. Tighten bolt by using 4mm hex key and 8mm flat wrench, both included in SimFab kits.



Adjust VirPil collective base friction bolts under rubber caps (top and bottom of base). Adjust counterweight spring mechanism by 5mm hex key.



Adjust pivoting tube tilt for balanced pitch range. Test highest and lowest grip position to find optimal setting to personal preference.

⚠ Ensure tilt bolt is tight.



Adjust arm bar for optimal arm reach.

Adjust 4way coupler on pivoting tube for optimal height adjustment.



17. Use Velcro tie wraps to run all cables neatly around brackets and tubes. Ensure cables are not getting pinched or over stretched during re-adjustment.



18. To break down, store away or move your SimFab flight pit, disconnect each peripheral module/attached bracket at easiest breaking points as shown.



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 previous installation instructions for collective control with short tube mounted to lower side/rear 4way coupler.

⚠ 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.



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>

