

## VERY IMPORTANT - PLEASE READ

Please use the illustration of our cockpit as a guide to help with the main cockpit assembly

DO NOT unbox all the internal packaging as it is numbered to aid you with assembly

All hardware is located in box#1 and the hardware needed is mentioned on the relevant step. If washers are called for they go on the nut side in this order, flat washer, spring washer, nut

Please keep all frame bolts loose until the cockpit is fully assembled as the cockpit is made to very tight tolerances to increase stability.

Please watch our assembly videos located at [http://www.obutto.com/r3v\\_assembly\\_videos.html](http://www.obutto.com/r3v_assembly_videos.html)

### Step 1: Front section of the cockpit

Parts: Main spine (box#2), right & left front halves (styrofoam wrapped)

Hardware: 8ea M8x18mm socket cap bolts  
Instruction: attach the two halves to the main spine, leave bolts very loose (fig1)

**\*NOTE:** If you purchased the tabletops, this is the time to attach it's mounting bracket (see separate instructions)

Parts: Base runners left/right (box#3)

Hardware: 4ea M8x80mm socket cap carriage bolt, 4ea M8 flat washer, spring washer, nuts

Instruction: attach the front assembly to the base runners as pictured (fig1)



### Step 2: Rear section of the cockpit

Parts: Left and Right seat rails (styrofoam wrapped)

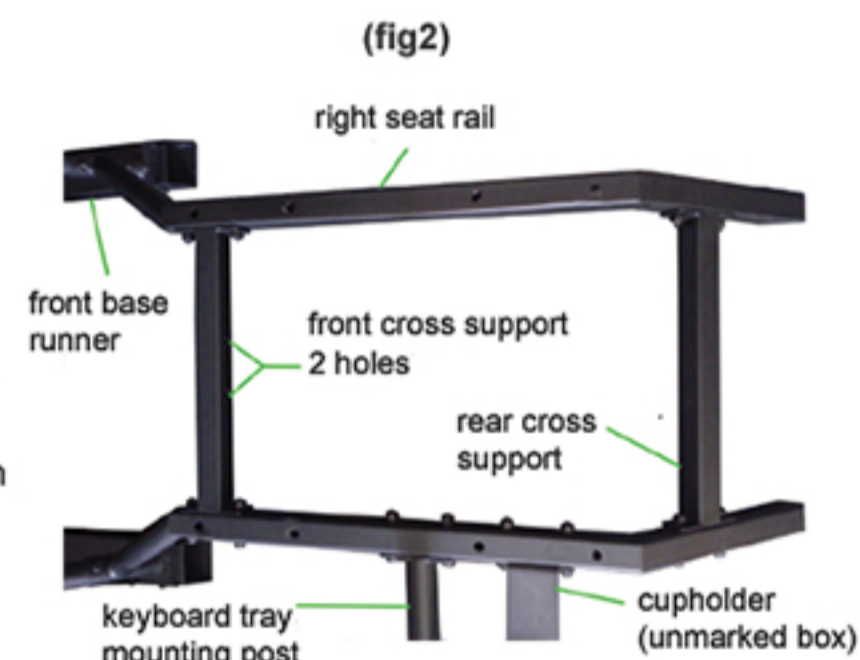
Hardware: 4ea M8x45mm socket cap bolt, 4ea M8 flat washer, nuts

Instruction: Attach seat rails to the lower two holes on the rear legs of front section of the cockpit. (fig2)

Parts: Cross supports (box#4)

Hardware: 8ea M8x45mm socket cap bolt, 8ea M8 flat washer, spring washer, nuts

Instruction: Attach cross supports in between the left & right seat rails. Cross support with two holes in the middle is used in the forward position which is holes 1&2 of the seat rails. Other using the top two holes on the rear legs of the seat rails. (fig2)



### Step 3: Mounting the seat

**\*\*CAUTION: be very careful when manually moving the sliders with your fingers, and do not put your fingers inside the sliders at anytime or you could hurt yourself\*\***

Parts: Seat (separate long box)

Hardware: 4ea M8x45mm FLAT HEX HEAD BOLT, 4ea M8 flat & spring washers, nuts

Instruction:

1) Lay seat on it's side and manually slide the sliders to the maximum rear by pulling the handle and moving the sliders with your hand. Slot 1 M8x45mm FLAT HEX HEAD bolt through each side's last hole.

2) Slide the sliders all the way forward exposing the first holes. Slot 1ea M8x45mm FLAT HEX HEAD bolt through each side's first holes. Make sure each side of the sliders are at equal length (easiest way to do this is by counting the teeth on the exposed part of the slider). **\*\*Note: There are two mounting locations for your seat (fore & aft). In general, use the first series of holes if you are 170cm (5'5") or shorter. Use the second series of holes if you are taller than 170cm (5'5")...but this really comes down to preference.**

3) With the 4 bolts hanging through the sliders carefully lift your seat up by holding the seatback. Hover it over your seat rails and drop the bolts down through your desired set of holes.

**\*\*CAUTION: be careful as the seat can fall off the seat rails before the bolts are put through their respective holes\*\***

4) Hand tighten your flat washers, spring washers

### Step 4: Keyboard tray, Shifter mount, Cupholder

Parts: Keyboard tray & shifter mount mounting posts (box#5), Shifter mount (styrofoam wrapped), Cupholder (marked as cupholder)

Hardware: 6ea M8x45mm Socket Cap bolt, 6ea M8 flat & spring washers, nuts, 2 plastic knobs

Instruction:

- Attach your keyboard tray mounting post anywhere between holes 5-8 of your seat rails, on whichever side you prefer....see below left (fig2)
- If you sim-race attach the other mounting post to any holes between 1-4 on the opposite side. Then slot in your shifter mount into the appropriate mounting post. **\*\*NOTE: Tighten these mounting posts very tight with a 13mm wrench.**
- Insert a plastic knob into each mounting post.
- Attach cupholder to whichever side you prefer... see below left (fig2)

Parts: Articulating keyboard tray arm (box#6)

Hardware: included on arm (1 bolt, 1 plastic washer)

Instruction: Remove the bolt & washer from the first joint, then set the keyboard tray mounting plate so that the links line up, secure by hand.

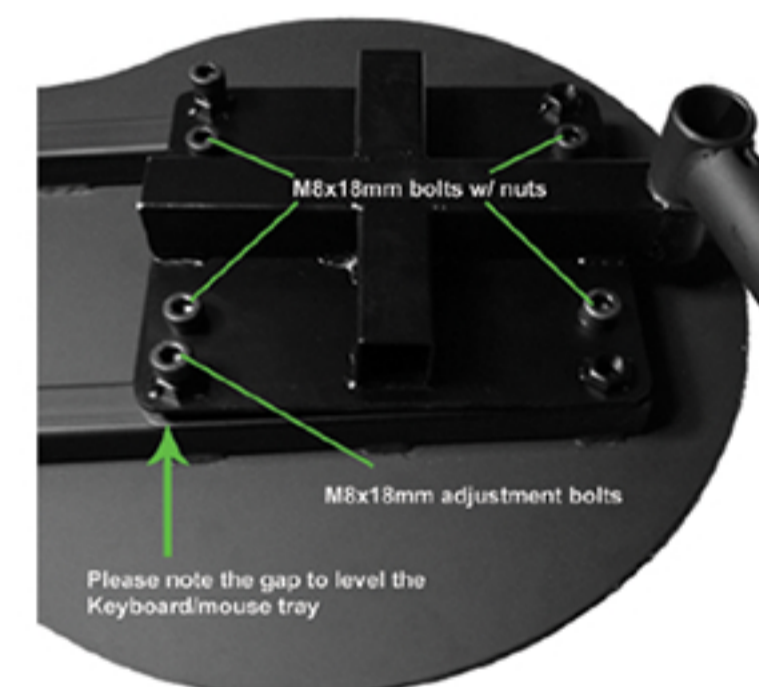
Parts: keyboard tray (box#7)

Hardware: 6ea M8x18mm socket cap bolt, 4ea M8 nuts

Instruction:

- Put the keyboard tray upside down and orient it like the picture below left. (fig4)
- Line up the articulating arm so that it is on the outside, and run four M8x18mm bolts through the inner bolt holes (the ones WITHOUT welded on nuts). Secure with nuts by hand but leave very loose. **\*NOTE: These are for securing the keyboard tray to the mount.**
- Thread two M8x18mm bolts into the inside welded on nuts as pictured until you have appx 7-10mm gap between the two sheet metal plates. **\*NOTE: These are for adjusting the amount of tilt/lean.** (fig4)
- Slot your keyboard tray assembly into it's mounting post and check to see if it is level. Adjustments can be made by tightening or loosening the two M8x18mm bolts that thread into the welded nuts. **\*NOTE: Be sure to loosen the 4 other nuts before doing any adjustments as you can warp the sheet metal plates**
- Hand tighten the 4 nuts to secure

(fig4)



### Step 5: Monitor Stand

Parts: Monitor mount connector w/ Articulating arms & VESA mounting plate (box#8), 2 inserting posts (box#9)

Hardware: 2ea M8x45mm Socket Cap bolt, 2ea M8 spring washer, nuts.

Instruction:

- Attach the monitor mount connector by inserting the posts where any of the 3 holes can line up with the holes on the mount connector, these control monitor height. First try middle holes unless you are mounting a very large monitor 32"+ Once your desired holes are lined up run two M8x45mm through and secure them with spring washers & nuts. (fig5)
- Attach the VESA mounting plate to the bracket on the end of the articulating arms with the already attached M8 flat hex head bolt, flat & spring washer, by pushing it through the bracket and in to the VESA mounting plate and threading it into the welded nut on the inside of the VESA mount bracket (fig5.1)

Parts: Monitor stand base runners (box#10), Monitor stand legs (styrofoam wrapped)

Hardware: 4ea M8 Socket cap bolts, 4ea M8 flat & spring washers, nuts, 4ea M4 socket cap bolts, 4ea M4x8mm (or 20mm), 4ea M4 washers,

Instruction:

- Attach the legs to the runners, use the pic on the right for orientation (fig5), the 45deg ends face the user
- Attach your monitor to the VESA mounting plate (using the M4x8mm bolts if your monitors back casing is flat, or use the M4x20mm bolts if your monitors have inset bolt patterns) **\*NOTE: do not thread your bolts in more than 5mm into your monitors or you can damage your monitor.**
- Then insert the monitor stand, with your monitor attached, into the monitor stand legs.....do NOT use the plastic knobs on the monitor stand legs as they are not needed, just make sure you fully seat the inserting tubes all the way down into the top of the legs. (fig5)

**\*\*CAUTION: be mindful of the articulating arm allowing your monitor to move\*\***

**\*Note: to slightly raise or lower you monitor just loosen the horizontal M8x70mm bolt and then turn the vertical M8x50mm bolt to raise or lower the your monitor. Don't forget to re-tighten the horizontal bolt...the tighter the better for this bolt.**

**\*\*NOTE: To adjust the tilt of your monitor just loosen the horizontal bolt, tilt monitor to your preference and then re-tighten the bolt with a wrench....the tighter the better.**

**\*\*\*NOTE: To adjust the level of your monitor loosen the M8x20mm FLAT HEX HEAD bolt on the bracket, level your monitor and then re-tighten with a wrench....the tighter the better.**

### Step 6: Pedal tray and Main mount

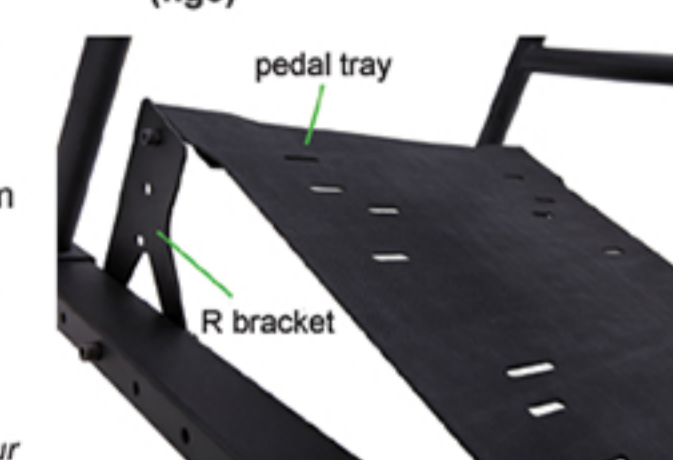
Parts: R brackets & Pedal tray (box#11)

Hardware: 4ea M8x80mm, 2ea M8x100mm, 2ea M8x18mm Socket cap bolts, 8ea M8 flat washers, nuts

Instruction:

- Attach the R brackets to the base at your desired location using 4ea M8x80mm bolts washers & nuts (fig6)
- Line up your pedal tray and bolt in the front edge with 2ea M8x18mm bolts, and the rear with 2ea M8x100mm bolts. Secure all with M8 flat washer and nuts. **\*\*NOTE: if there is a gap in the front, just tilt your cockpit up on the opposite base and press down to close the gap. There should be a gap at the rear of the pedal tray.**

(fig6)



Parts: Main mount (box#12, box#13)

Hardware: 4ea M8x18mm Socket cap bolts, flat & spring washers, nuts, 1 plastic knob

Instruction:

- Assemble the Main mount, using 4ea M8x18mm bolts, washers & nuts (fig6.1). **\*NOTE: the mount tilts off the rear bolt hinge, so loosen all four, tilt to your preference, and then re-tighten with a wrench very securely.**
- Main mount is held in place by threading in a plastic knob underneath. To adjust the distance/height of the wheel, loosen the knob & push/pull to your preference, and re-tighten.

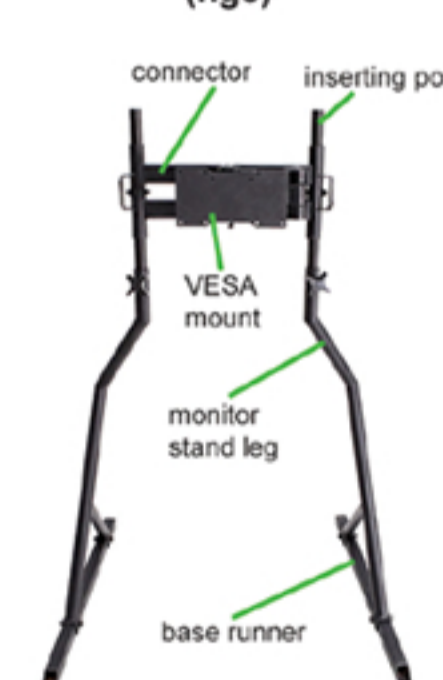
(fig6.1)



### Step 7: Finishing up

- Go back and tighten down all frame bolts, no need to overtighten
- Stick on the self adhesive Keyboard tray cover, Main mount & Pedal tray cover. Some of these may require a bit of stretching
- The M6x15mm bolts are for hard mounting controllers

(fig5)



(fig5.1)

