



## rEvo Rebreather Stand Instruction Leaflet (version 2.0)

**Please read these instructions PRIOR to fitting the new rEvo stand to your rebreather unit**

### Components of the rEvo Rebreather Stand

1. A base frame, four legs, a mounting plate with a 90-degree spine, 4 hex screws, a hex-tool and a small amount of grease. Ref. Photo 1
2. A set of nuts and washers to for the rEvo back plate that allow it to secure the spine of the stand. Ref. Photo 2
3. A set of slotted machine screws, nuts and washers to fasten the rEvo outriggers to the stand. Ref. Photo 3
4. If the optional D-rings were ordered, they will come with their own slotted machine screws, nuts and washers, as shown in Photo 4

### The major steps of the assembly and mounting are

1. Assembly of the stand
2. Mount the stand behind the rEvo back plate
3. Fix the outriggers and tighten the back plate
4. Adjust the cylinder mounts

### Step 1: Assembly of the stand

Please grease all the threads on the legs and the countersunk bolts on the base frame with the grease provided.

Screw all four legs into the base frame. Place the mounting plate on top of the legs with the 90-degree spine facing upwards and towards the wings of the base frame as shown on Photo 5. Do pay attention to the orientation of the slotted spine towards the wings because it is easy to use the incorrect orientation and will require time-consuming corrections at a later stage; Photo 5 shows the correct assembly.

Fix the mounting plate using the 4 hex-screws and the hex tool. If you purchased the optional D-rings, now is the right moment to fix them using the slotted machine screws, washers (at the bottom) and the Nylox nuts. Photo 5 shows the D-rings fixed to the outrigger support arms of the mounting plate: this is just one position where they can be fixed. Alternatively the D-rings can be fixed in pre-drilled positions closer to the spine. Consider whether you want to strap an Argon cylinder under the mounting plate and whether the access remains sufficient when deciding your preferred position for the D-rings.

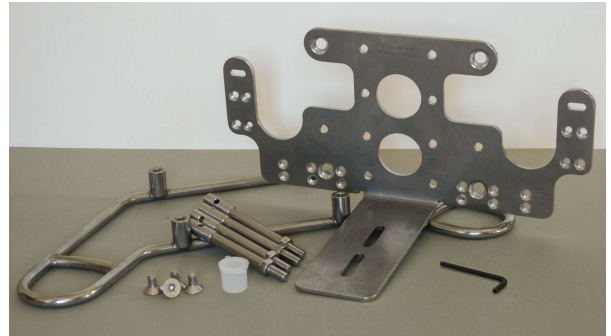


Photo 1



Photo 2



Photo 3

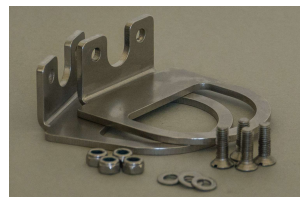


Photo 4



Photo 5



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Step 2: Mount the stand behind the rEvo back plate  
Place your rEvo unit with the scrubber facing down.

First remove the "Rubber Bung(s)" on the ends of the left and right outriggers. On some units there is only one rubber bung on either (left/right) side facing towards the surface on which the rEvo stands in an upright position. On other units the factory fitted 2 rubber bungs on each outrigger; one towards the support surface and one towards the cylinder valve. All rubber bungs on the ends of the outriggers should all be removed at this point, but leave the rubber bungs under the main case of the unit; Photo 6 illustrates this state.

Remove the two nuts which hold your back plate to the rEvo unit. Photo 7 shows the (metal V-shaped) back plate lifted. Remove the large white back plate, the metal spacer washers and the small white spine plate.

Now let's insert the stand:

Position the stand ready-to-deploy; on its back with the spine plate facing upward and pointing towards the bottom of the rEvo. Lift the Cordura fabric of the wing high enough above the bolts and slip the spine of the stand underneath the Cordura, directly onto the rEvo backplane casing metal. The bolts will fit through the long slots in the spine of the stand. Then allow the Cordura of the wing to come down onto the spine metal. Seat the small white spine plate around the 2 bolts on top of the Cordura and insert the 2 spacer washers atop. This state is shown in Photo 8.

Re-insert the large white back plate and you're ready to lower the rEvo back plate around the bolts.

Secure the back plate using penny / mudguard washer, spring washer, either the full nut, the half nut or the dome nut according to your preference). Please leave slightly loose until later final adjustments.

At this point it's good to verify that the wings of the stand are pointing upward before proceeding.

Which nuts to use and whether washers should be used, depends on the length of back plate bolts that were installed by the factory in your unit. Photo 10 shows the bolts on the demonstration unit are very short (protruding 5.5mm above the back plate) and therefore allow only a half nut + penny washer (Ref. Photo 11) or a dome nut. Based on a longer thread, the dome nuts were given preference by the owner of the demo unit (ref. Photo 9).



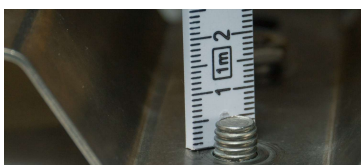
Photo 6



Photo 7



Photo 8





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### Step 3: Fix the outriggers and tighten the back plate

Rubber bungs under cylinder valves represent shock absorbent value even if the factory did not originally mount bungs under the valves in your unit. While the shock absorbent function makes them desirable, the down side is the tight space: the bung raises the valve, thus it raises the first stage to where there is even less space due to the increasing width of the scrubber unit. rEvo micro units have a reduced body width compared to mini or standard model rEvo units; therefore micro units have the tightest fit and require more extreme measures to allow sufficient comfort space during cylinder mount/unmount procedures.

Under Step 4 measures are described to shift your cylinders and thereby reduce the mount problems due to lack of space around the first stages.

The fixing kit contains two different lengths of M4 Slotted Machine Screws to allow for different configurations with a single, two, or no rubber bungs. Use the small washers inside the rubber bungs to distribute the tightening force evenly. Use the large washer to cover the slotted hole in the stand's outrigger arm if you choose not to use a rubber bung on the bottom side and fasten with the M4 Nyloc nut as shown in Photo 12.

Please now tighten the two back plate nuts referred to in Step 2 of this instruction leaflet.

### Step 4: Adjust cylinder mounts

Asymmetrical bending of the rEvo's cylinder quick release clamp arms (Ref. Photo 13), will shift the cylinders towards the side of the rEvo unit (Ref. Photos 14 + 15), thereby creating more space for the first stage and thereby ease the mount/unmount process of cylinders.

In addition some DIY (Do It Yourself) stores sell low-profile bung replacements or when experiencing extreme difficulties you can consider to operate your rEvo without rubber bungs facing off to the cylinder valves (The factory ships many rEvo Micro units with metal screw-heads making direct contact with the valve heads without rubber)

Furthermore, note that you may need to slightly adjust your cylinder bands to relock the bracket into the correct position on the case. This is due to ensure that there is no flexing due to the new outrigger.



Photo 12



Photo 13



Photo 14



Photo 15



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If you have any queries regarding these instructions, please do not hesitate to contact us on +44(0)1227 700374 or via e-mail at [sales@divingproducts.co.uk](mailto:sales@divingproducts.co.uk) .