

Intend

Stiffmaster
- Manual 2019 -



Construction:

The Intend Stiffmaster is a special headset, which improves the stiffness of your 1 1/8" steerer tube.

Technical specs:

- **44mm or 49mm** framediameter (ZS44 or ZS49)
- **28,6mm** steerertube diameter
- **14mm** stackheight (+ spacer)
- **84g** incl. titanium bolt
- 1x **M4x12mm** Bolt
- **3mm** allen key

Torque:

The maximum torque of the clamping bolt is **3 Nm**.

Bearings:

1x 6806 2RS – 30 x 42 x 7mm

1x AXK 3047

2x AS 3047

Installing:

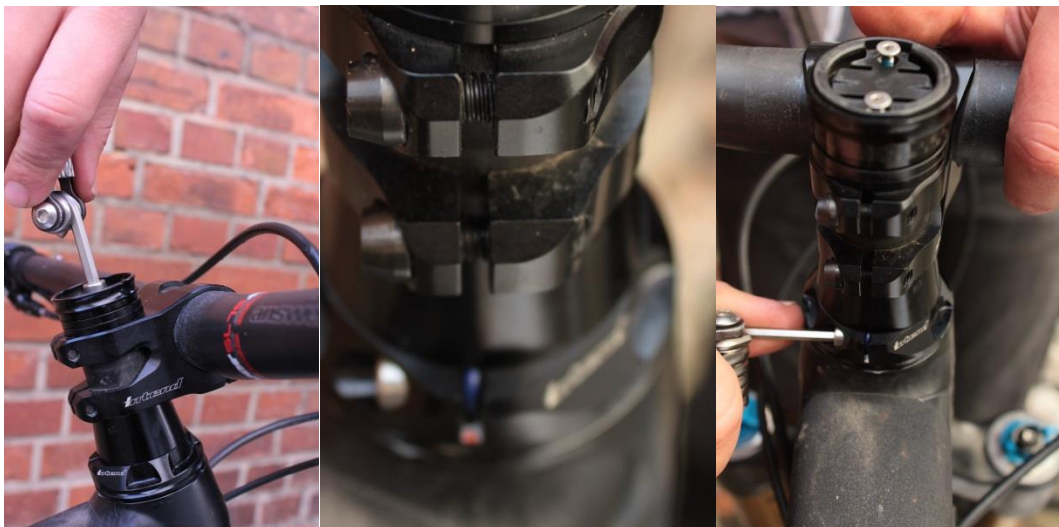
For installing the Stiffmaster it is not necessary to disassemble the headset unit. The bearings are strong enough to withstand the pressing force.

Please add a small amount of grease (doesn't matter which kind of grease) in the frame or the headset and press in the headset carefully with a soft-hammer or a special headset tool.



Put spacers, stem and headset on the steerer tube and preload the headset (as tight as possible without influencing a smooth run)

Try to align the Stiffmaster-cap and the clamp of your stem in one line (for optical reasons) and then fix the bolt with **3Nm**.



Service:

The bearings of the Intend Stiffmaster are NOT out of stainless steel. This is because this kind of axial bearings is not available in stainless steel from the industry. There is salt-water resistant grease everywhere inside the headset to avoid any wear and corrosion (I use Maxima waterproof grease). After a certain time of riding in wet and salty conditions, it can be necessary to disassemble the unit, to clean it and to regrease it again.

If so, you can do the following:

Step 1:

To disassemble the unit, press out the inner shell with a **22mm** (smaller than 30mm) nut and a 32mm nut on the bottom to push out the inner shell with a soft hammer like shown in the picture on the right.



You now have the two parts separated. As the bearings are not out of stainless steel it can and will be that you will find some rust on the bearings. I can't avoid this to 100%, although there are O-ring seals anywhere, but it is also not crucial for a good spinning headset. Just clean them up and they will work again. If this is not possible due to heavy rust, please replace the bearings.

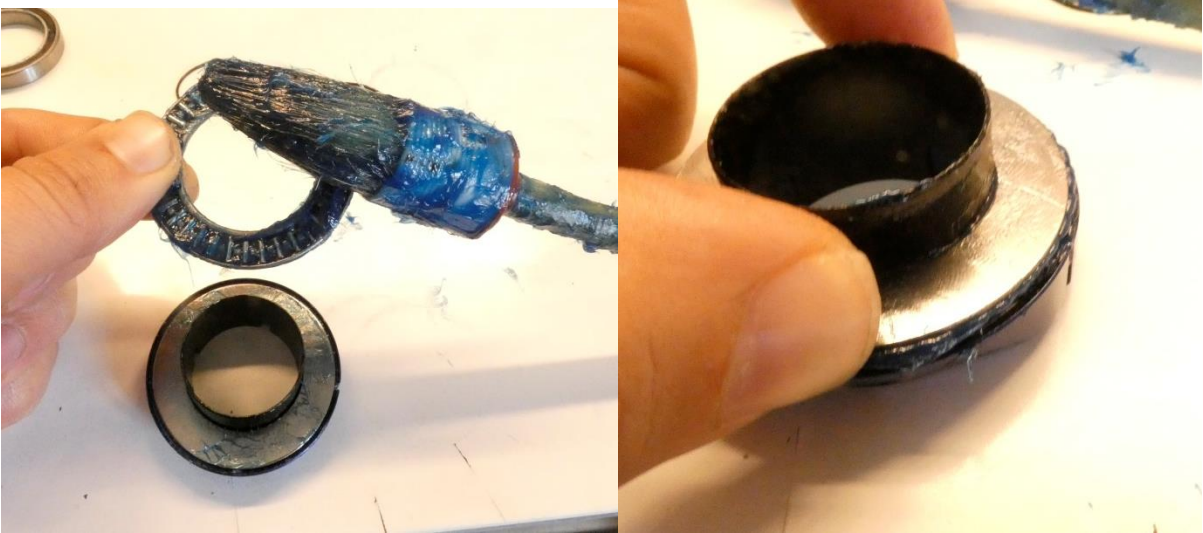
To deinstall the radial bearing it depends on the tolerances so it can be that you can pull it out by hand or you have to use a hot air gun and heat up the lower shell. Then it will be possible to pull the bearing out.



Clean all parts, put in the inner shell in the upper cup, put a small o-ring (the 2 small o-rings have the same size) around the inner shell and grease the inner surface of the upper cup with a salt-water resistant grease (I use Maxima waterproof)



Grease the axial bearing parts with a lot of grease and push them on the inner shell. The grease should make them hold there in this position.



The next step is to place the big o-ring in its groove. The o-ring is a little bit smaller than the groove. Always hold the axial bearing in place (otherwise the o-ring will pop between axial washer and the upper cup) and pull on the o-ring in the groove. I always use the nail of my finger to push it in the groove all around.



Grease the lower cup on the inside, put in the bearing and put in the o-ring in the groove and lubricate the o-ring a little bit with some oil (doesn't matter which kind of oil).



Now you can assemble the both halves: The inner shell should be in the position like shown and then you can push both halves together. Make it slow and carefully to prevent that the big o-ring comes out of the groove. Once it is in the correct position the o-ring will be safe in the groove as long the two halves stay in this position.



Take the 32mm nut and push in the inner shell. Always make sure that both halves are in this position (because the o-ring can pop between upper cup and washer)



Then you are done. Make sure that the big o-ring is still in place.

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