

# Reverb Rebuild

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**DISCLAIMER: the parts 1 to 4 are based on the RockShox videos, use it on your own risk, if uncertain, please check the RockShox Videos:**

Part 1: Taking apart [https://www.youtube.com/watch?v=XxgUK3gC\\_Fk](https://www.youtube.com/watch?v=XxgUK3gC_Fk)

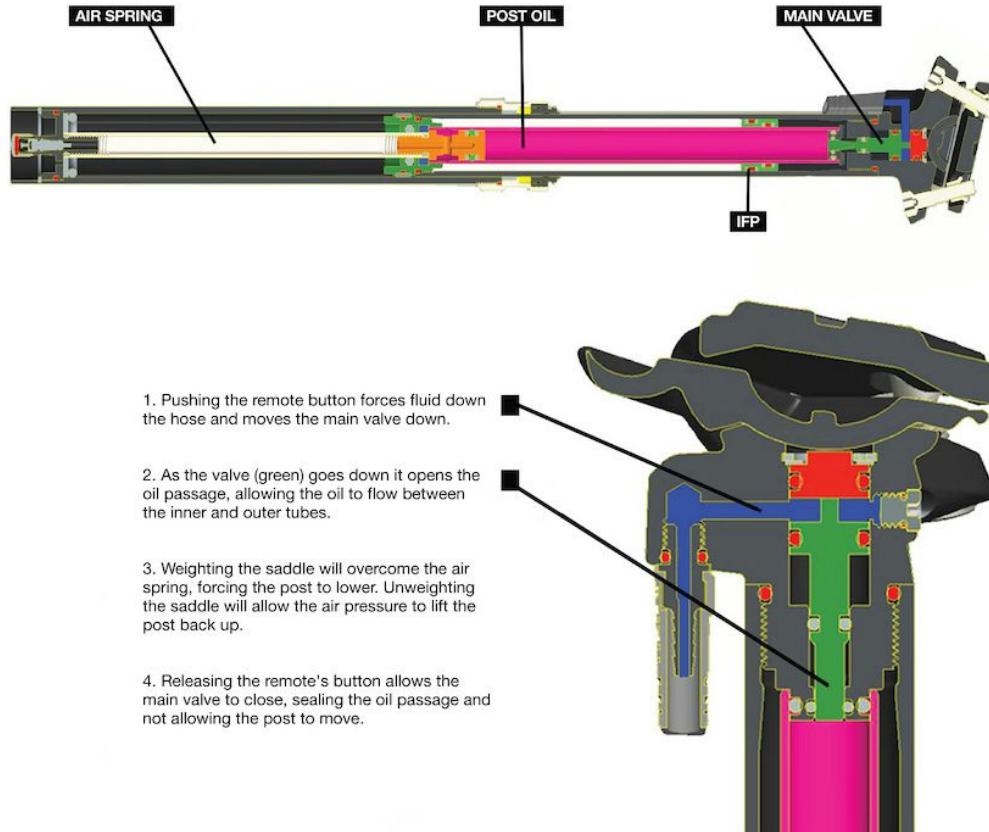
Part 2: Seals <https://www.youtube.com/watch?v=w65kpbuxKP4>

Part 3: Bleeding <https://www.youtube.com/watch?v=rbHc4V6Ei14>

Part 4: Reassembly <https://www.youtube.com/watch?v=KAmhSLir8hY>

## Misc stuff

<http://www.pinkbike.com/news/rockshox-reverb-review-2011.html>



## Links

IFP bleed example @ mbr

<http://forums.mtbr.com/all-mountain/rock-shox-reverb-ifp-bleed-procedure-785890.html#post9268280>

Reverb internals service

<http://forums.mtbr.com/components/rockshox-reverb-thread-660853-41.html#post8907680>

## IFP tool size

<http://singletrackworld.com/forum/topic/reverb-ifp-height-tool>

Rockshox Reverb IFP height tool

A small metal tube.

- 170mm long
- 19mm external diameter
- 16mm internal diameter

With height markings from the bottom.

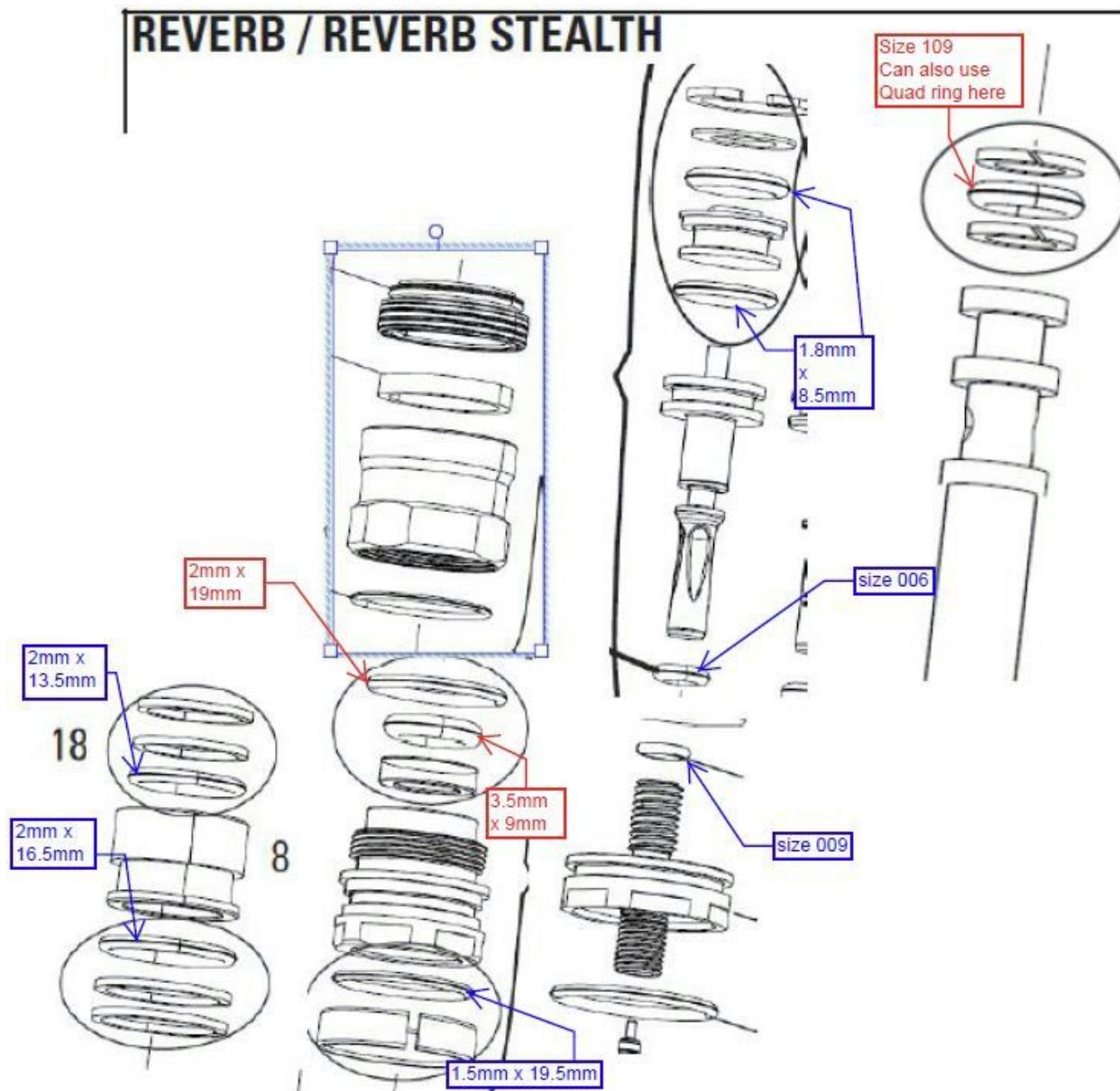
- "Stealth all" (30mm)

- "Reverb 100mm travel" (100mm)
- "Reverb 125mm travel" (125mm)

## Some seal types

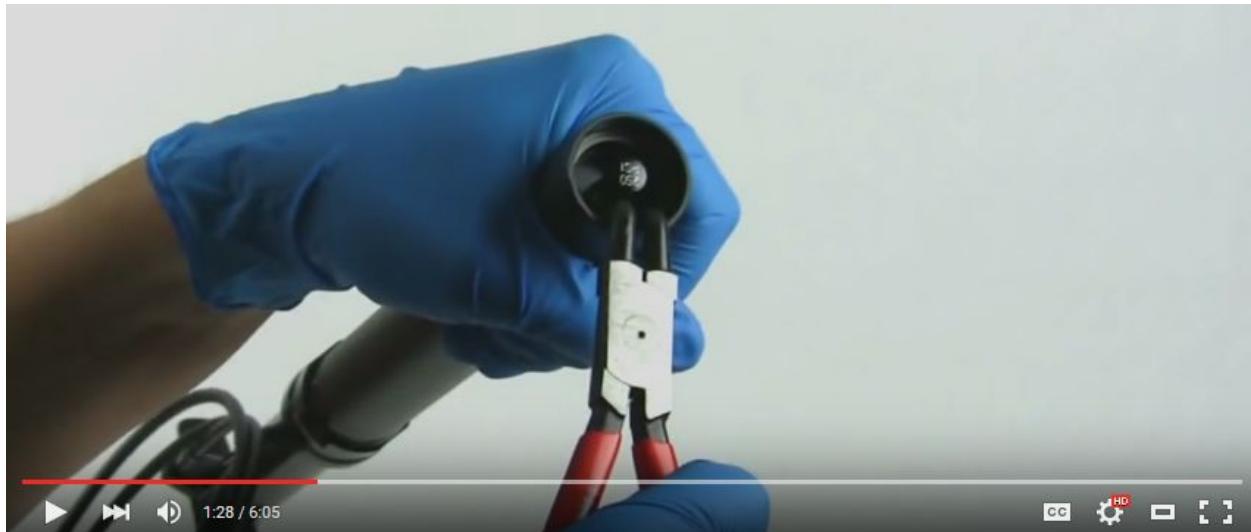
<http://forums.mtbr.com/components/rockshox-reverb-thread-660853-69.html#post10921149>

red seal



## Part 1: taking apart

[https://www.youtube.com/watch?v=XxgUK3gC\\_Fk](https://www.youtube.com/watch?v=XxgUK3gC_Fk)



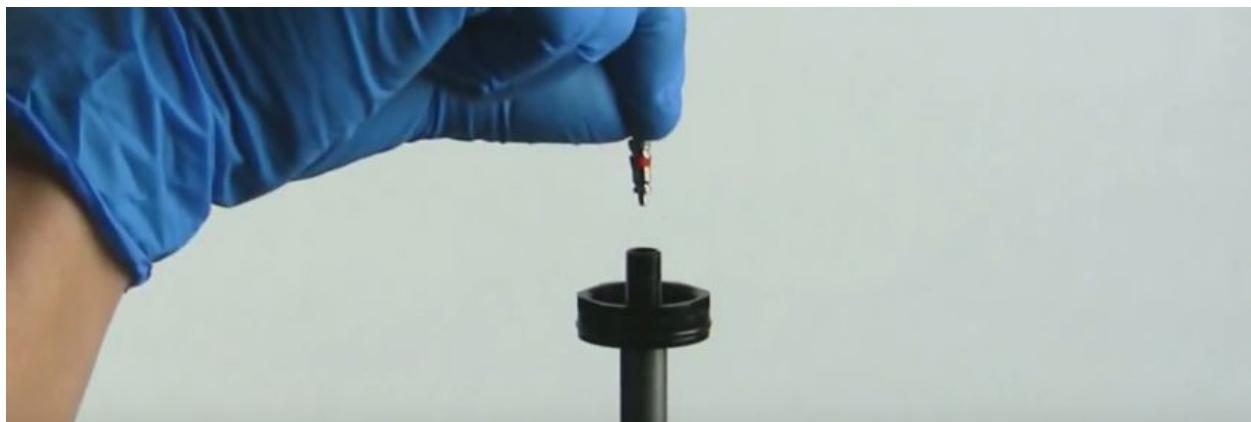
Push the lower post over the upper post until it stops



Release air pressure



remove valve core



clamp inner shaft to soft jaw vice



remove outer seal head and foam washer



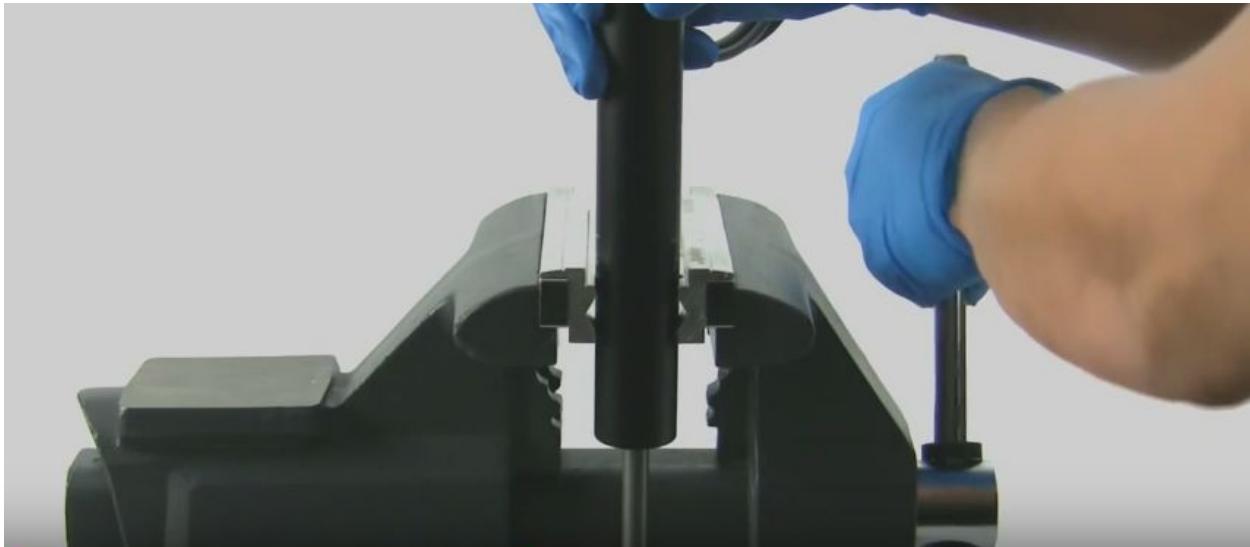
if bottom-out o-ring is loose, remove it too



if the bottom-out o-ring was not loose, remove it now



clamp the lower post to soft jaw vice below the minimum insertion line, just enough to keep the post from spinning



pull up on top post until it stops



un-thread the top cap from lower post



remove the upper post assembly



push the false bottom insert out



### 420 mm or 355 mm Post

remove the three brass keys



note the number of lines



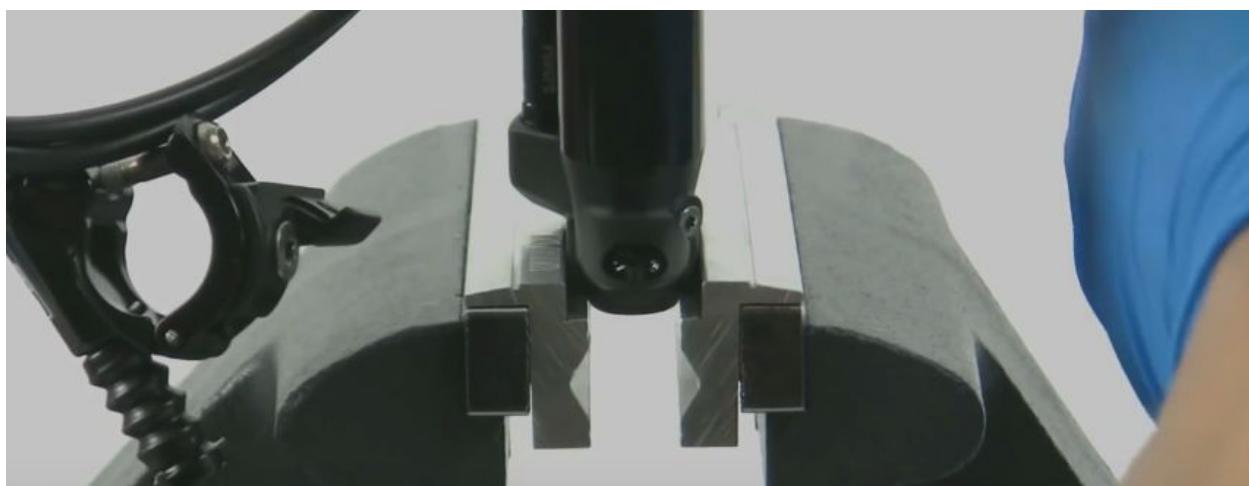
remove the external bushing from internal seal head



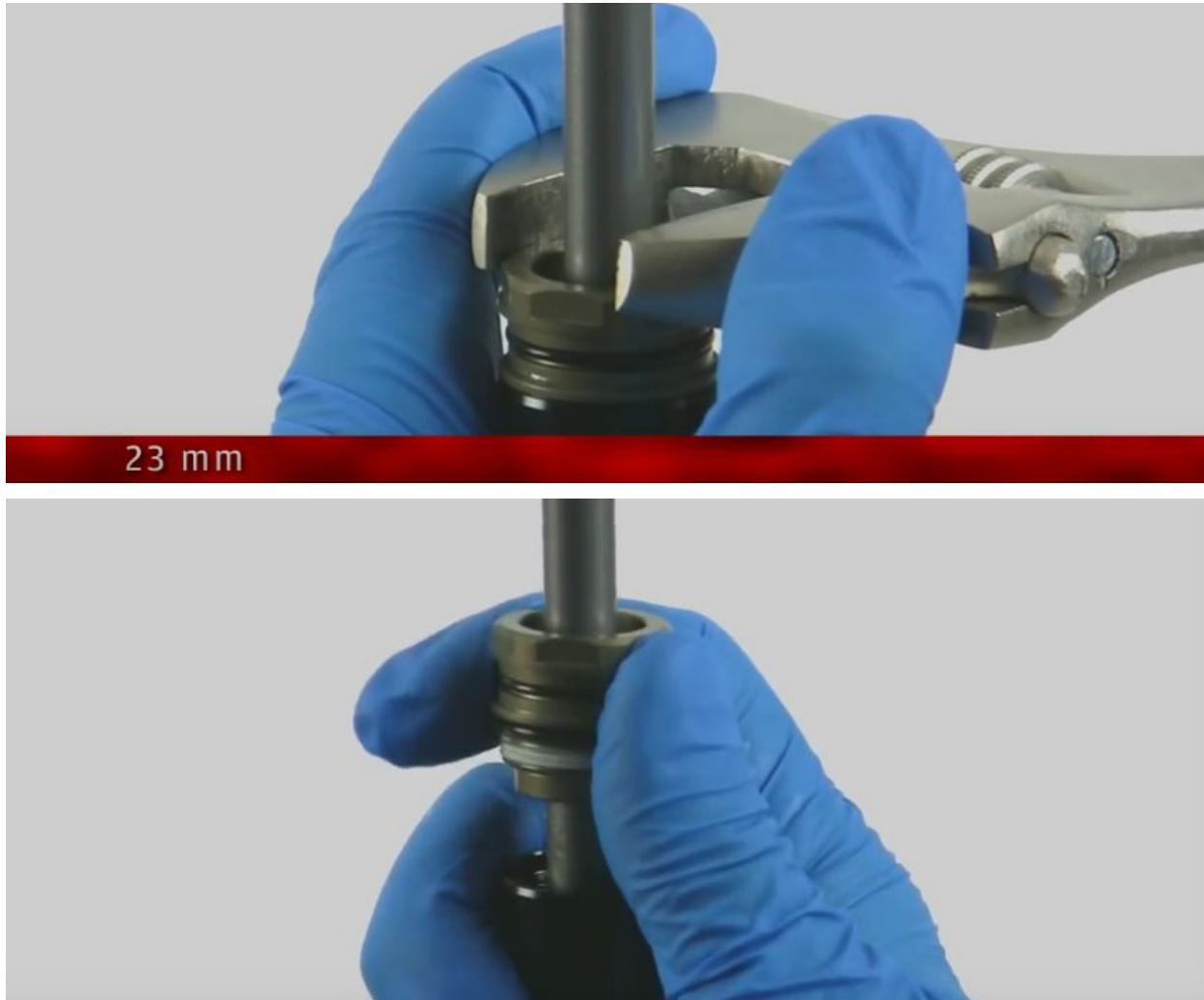
remove the top cap



clamp the top tube to the soft jaw vise at the flat section of the post head



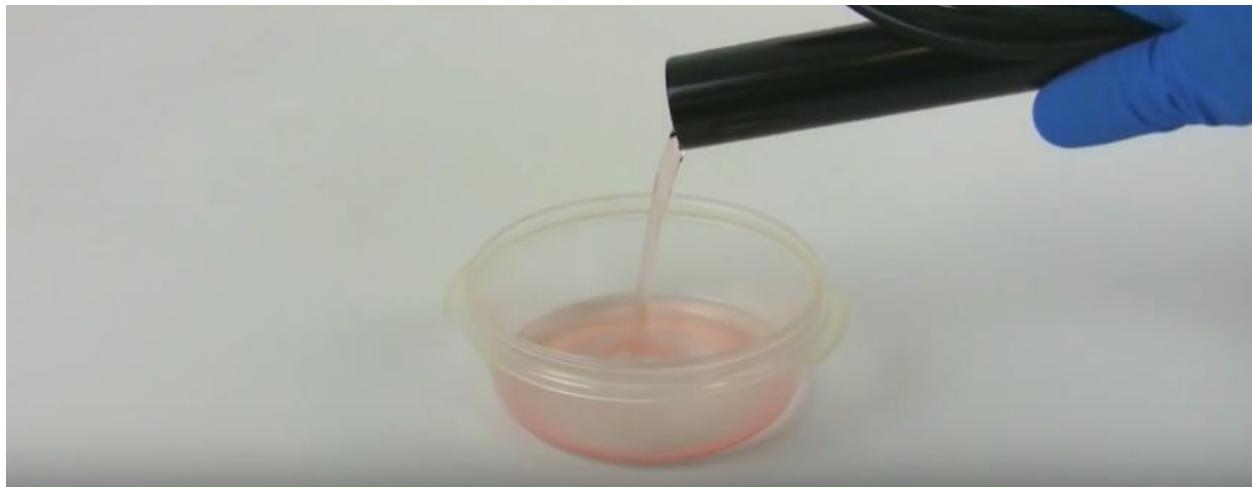
unscrew the internal seal head, **use caution, installed to very high torque value**



remove shaft and seal head from the upper post



pour fluid from the upper post



insert 1.5mm hex wrench to inner sleeve holes and remove the inner sleeve with pliers



insert 20cm zip-ties through the IFF to bottom of the upper post



(7-10 should be enough)



pull from the ties to remove IFP



slide the inner seal head from the shaft

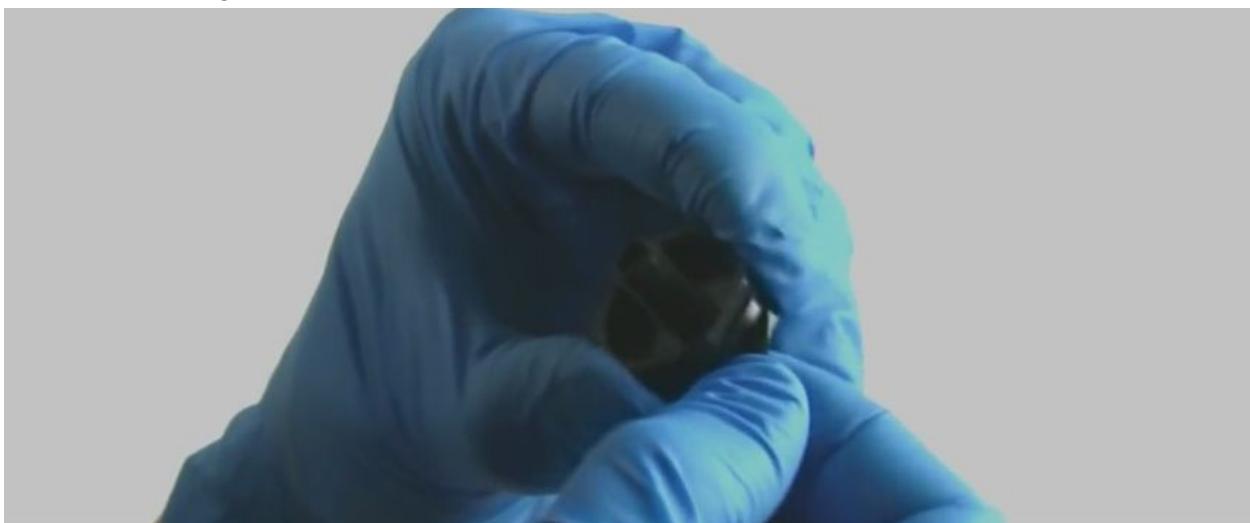


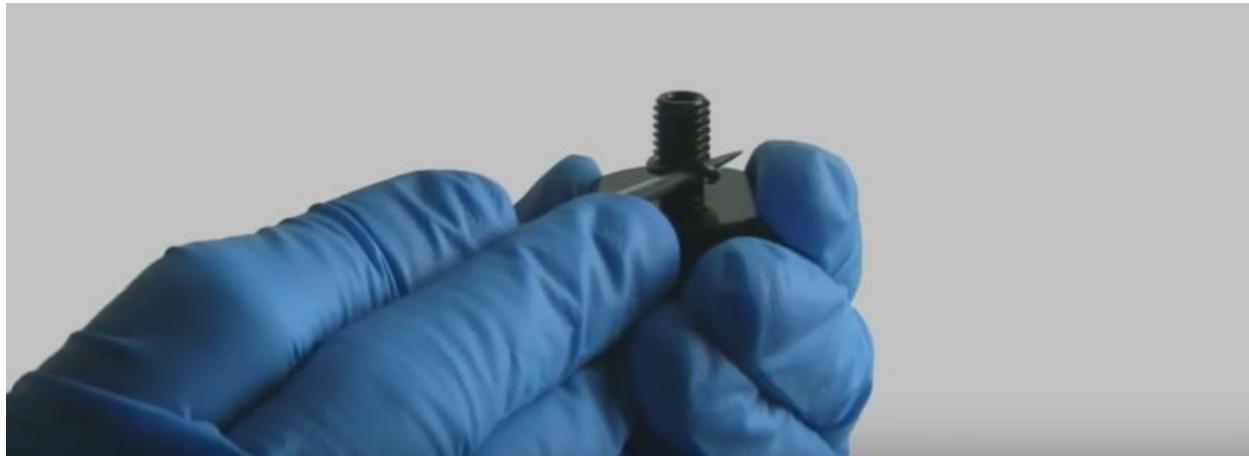
## Part 2: Seals

<https://www.youtube.com/watch?v=w65kpbuxKP4>

### Seal head

replace two o-rings on seal head





### Top cap

if the top cap bushing is loose, you will need to replace the top cap assembly



remove the o-ring and foam ring





remove the dust wiper with tyre lever



install new o-ring



saturate foam ring in reverb oil and install it above the bushing



carefully remove the energizer ring from the new dust wiper



insert the dust wiper into the lower tube



use the lower tube to press the dust wiper into the top cap



re-install the energizer ring



### Internal seal head

remove three o-rings and top out bumber from internal seal head

**Be careful not to scratch the seal head**

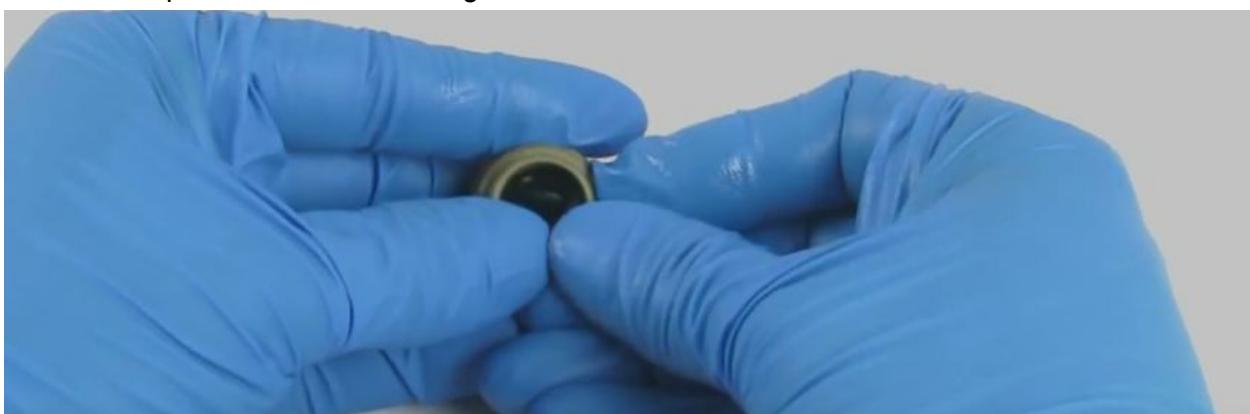


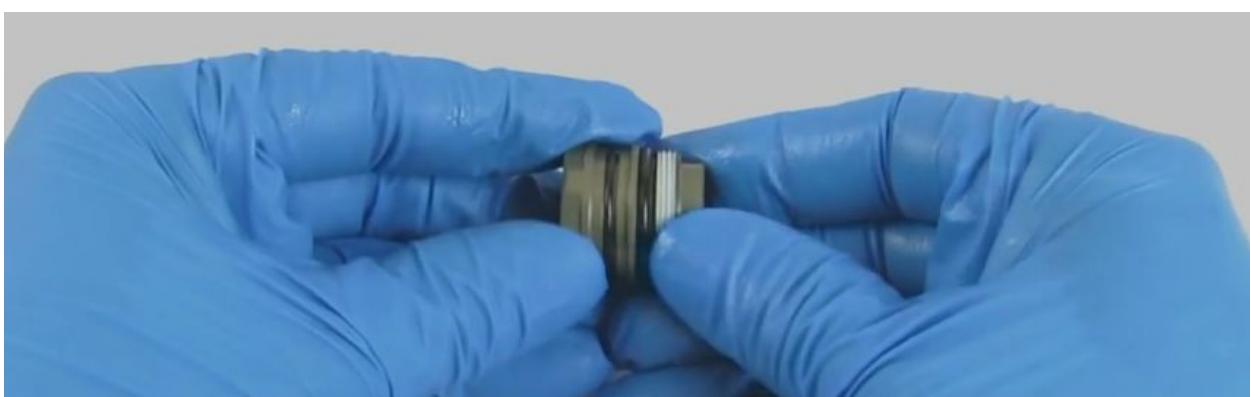
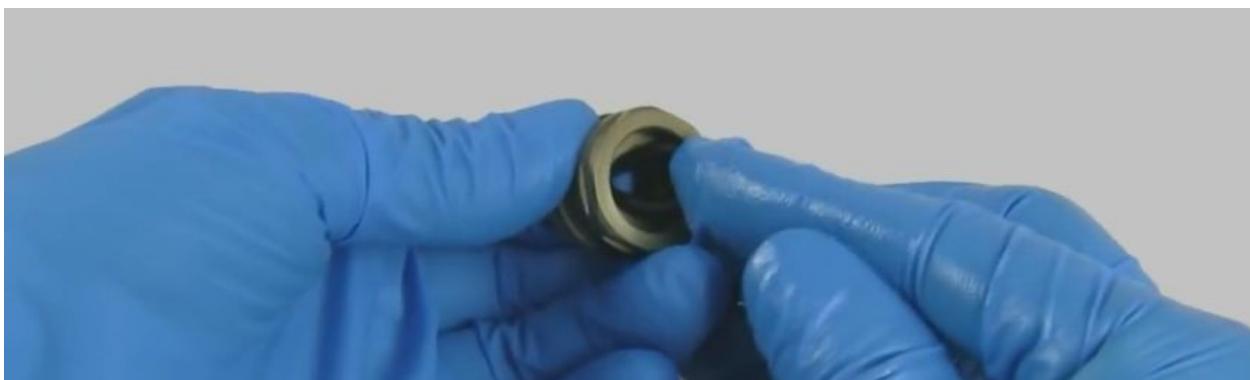


clean the inner seal head



insert new top out bumber and o-rings





**IFP**

remove the four glide rings and two o-rings from the IFP



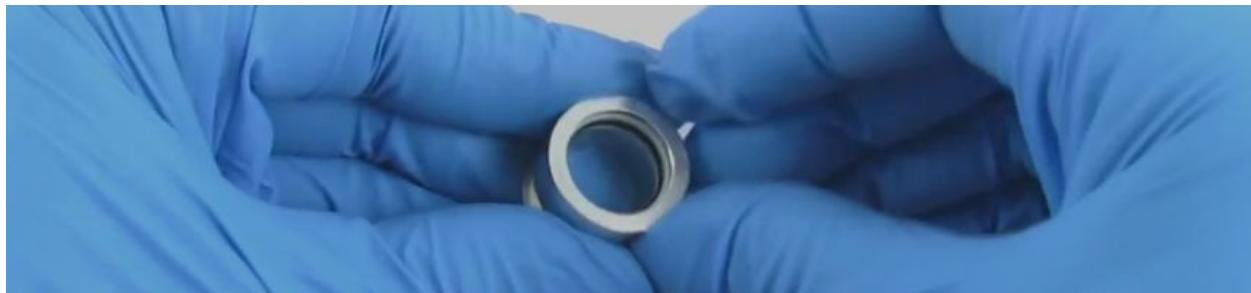


clean the ifp



install new glide rings and o-rings





## Piston

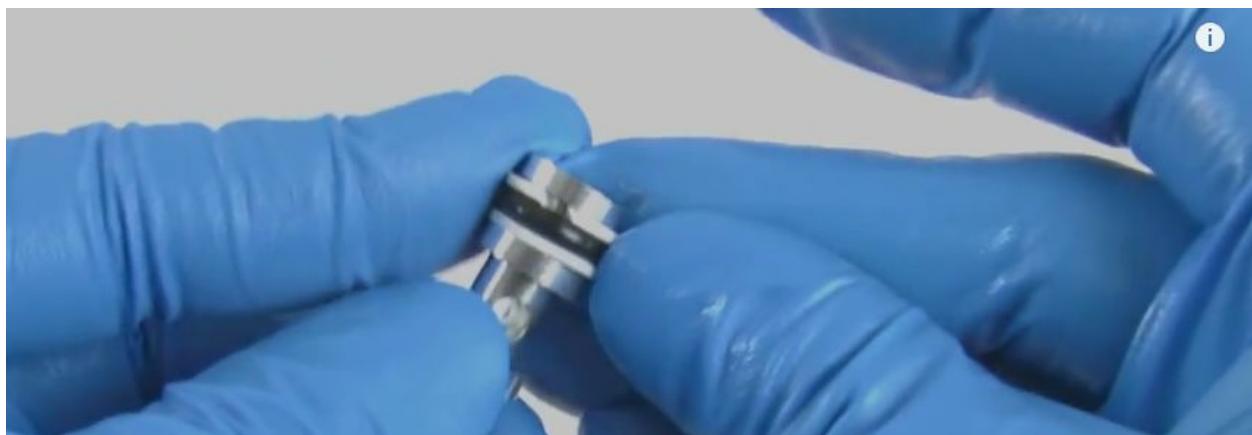
remove the two glide rings and o-ring from the shaft-piston



clean the shaft piston



install new glide rings and o-ring

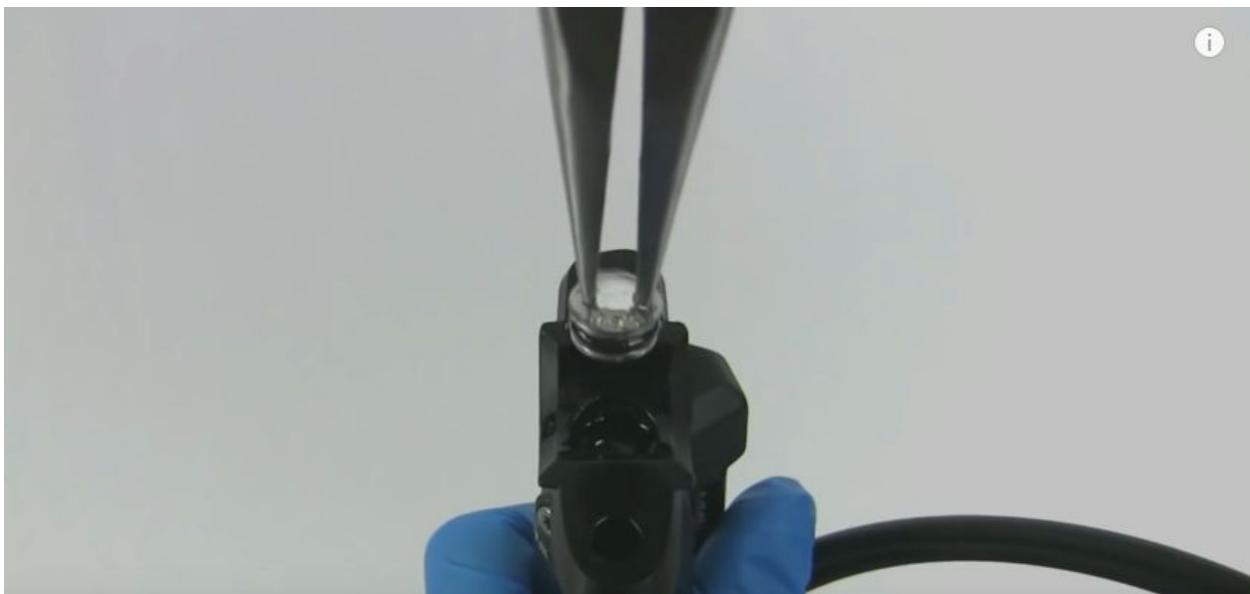


### Plug and pop-it-open valve

remove the snap ring from the top of the post



Remove plug and washer from the top



Remove pop-it-valve from the top



### Pop-it-valve

remove two o-rings from the pop-it valve



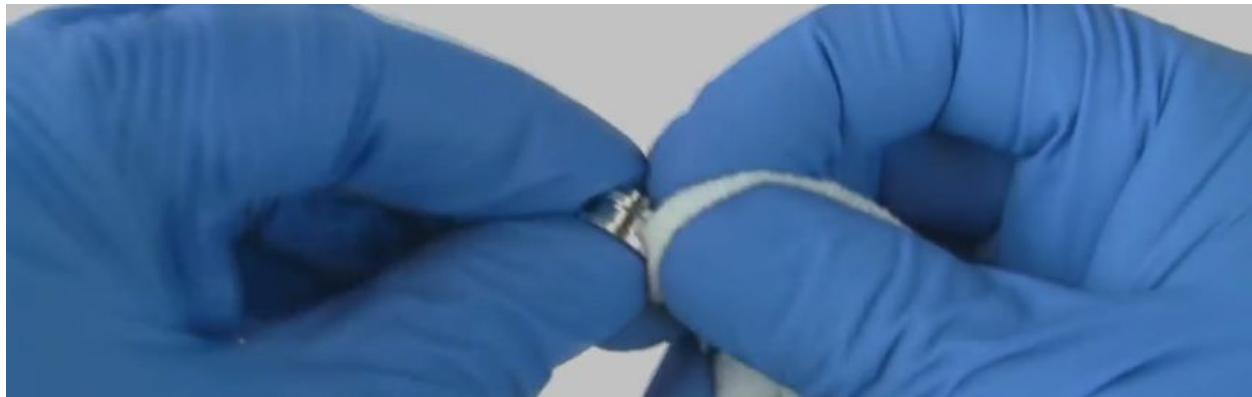
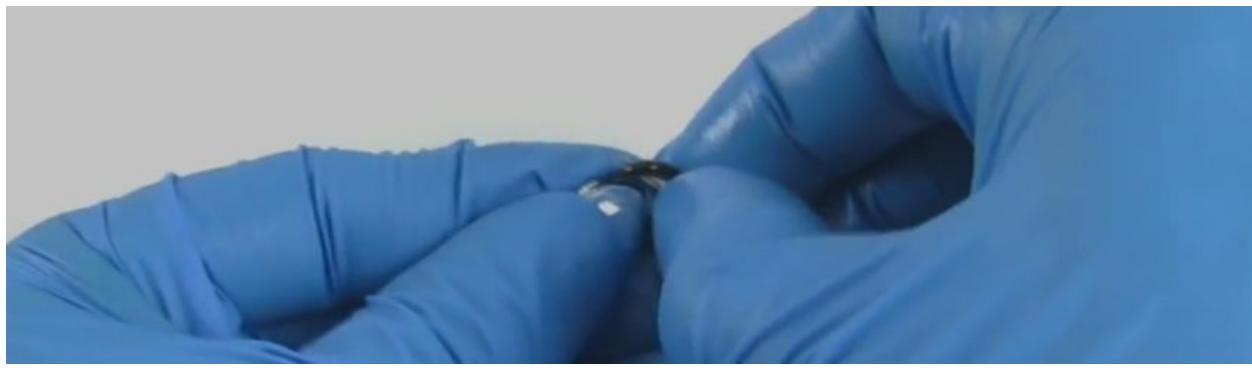
clean the pop-it-valve and install new o-rings





### Plug

remove the o-ring, clean and insert new o-ring

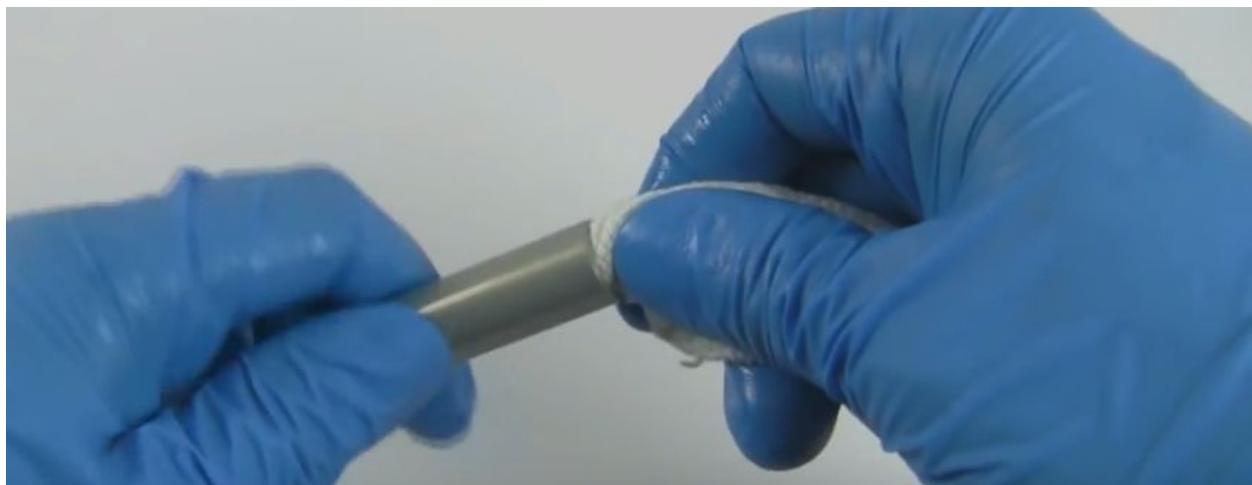


### upper and inner tube

clean the inside of the upper tube



clean in- and outside of the inner tube

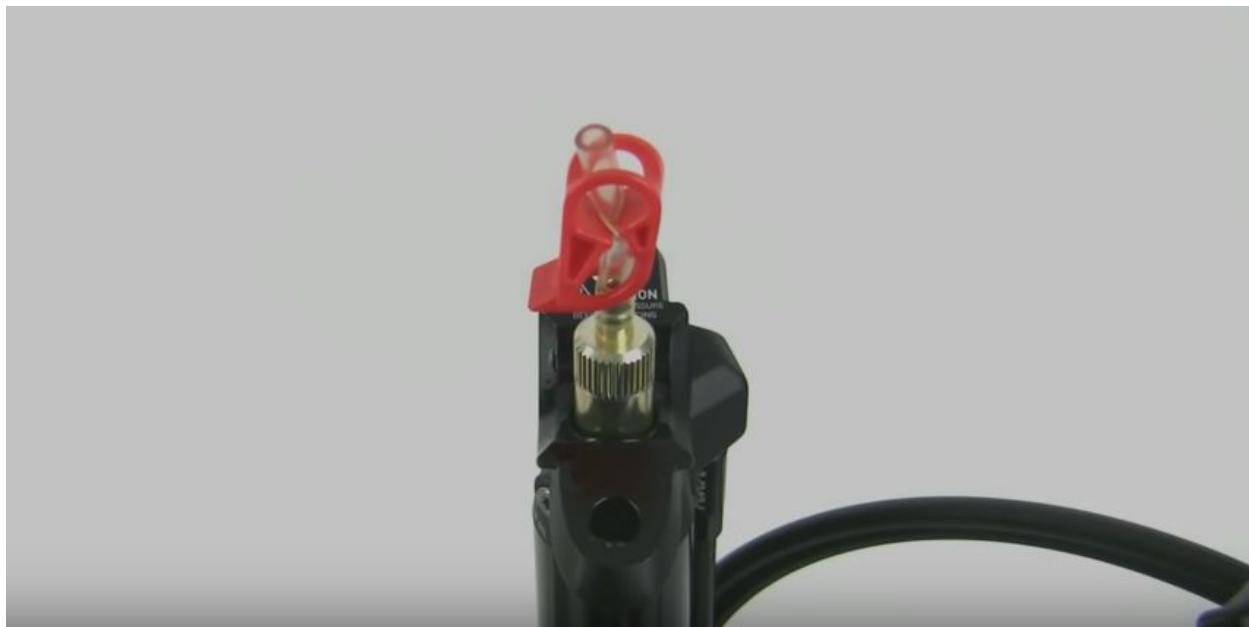




### Part 3: Bleeding

<https://www.youtube.com/watch?v=rbHc4V6Ei14>

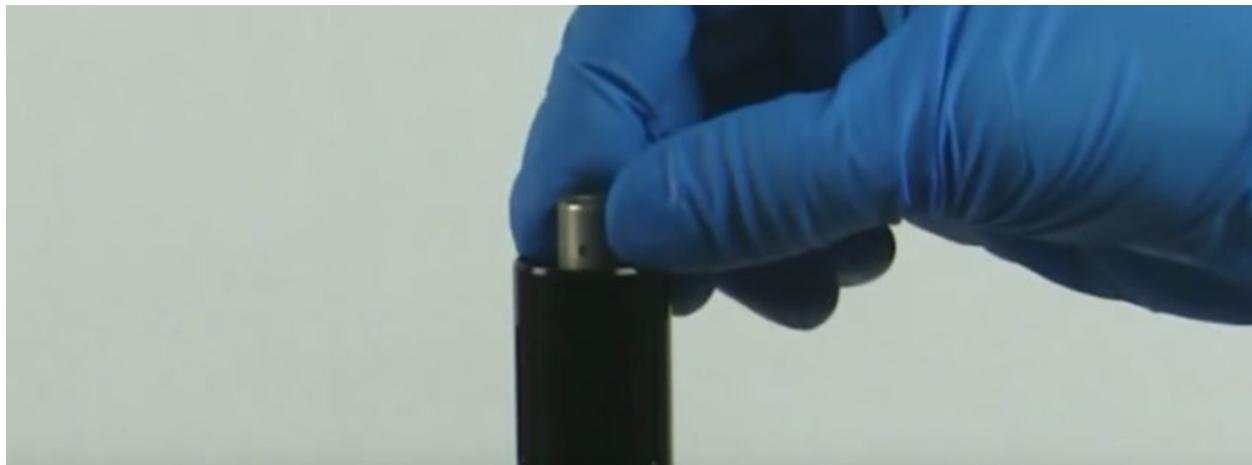
insert the bleed tool and clamp it shut



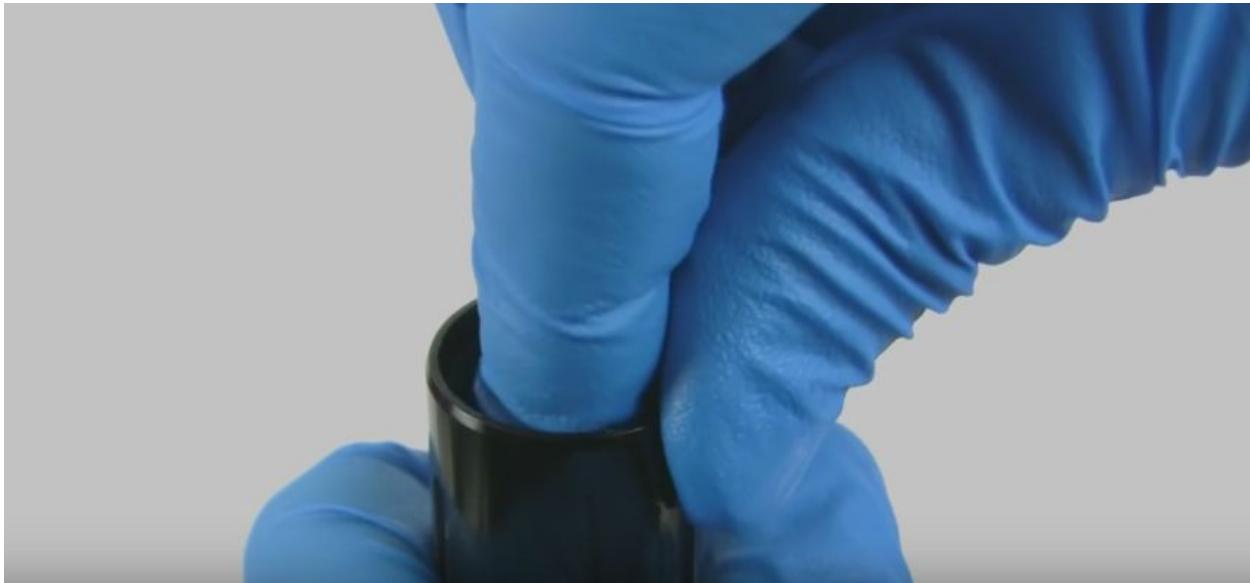
clamp the top post to the soft jaw vise from the flat section, **NOTE: do not clamp the bleed tool into the vise**



insert the non ported part of the inner tube to the upper post



press firmly until it snaps securely into the upper post



pour hydraulic fluid to the inner tube

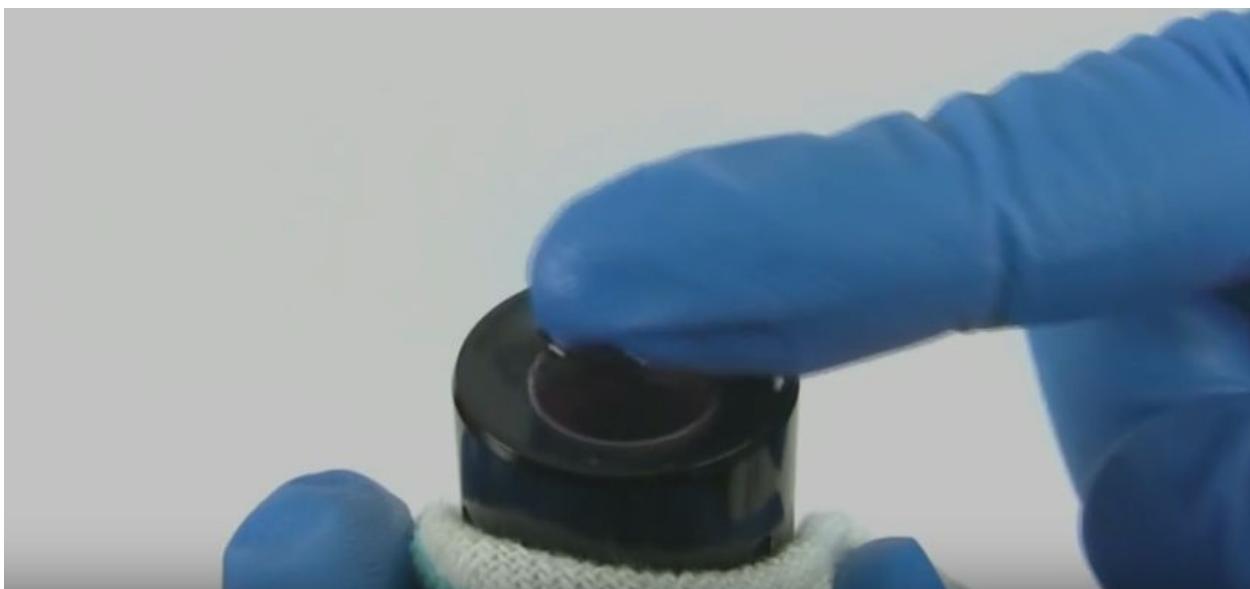


continue to pour until the fluid is level with the top of the post





remove bubbles from the surface



apply small amount of slick honey to internal and external glide- and o-rings of the IFP



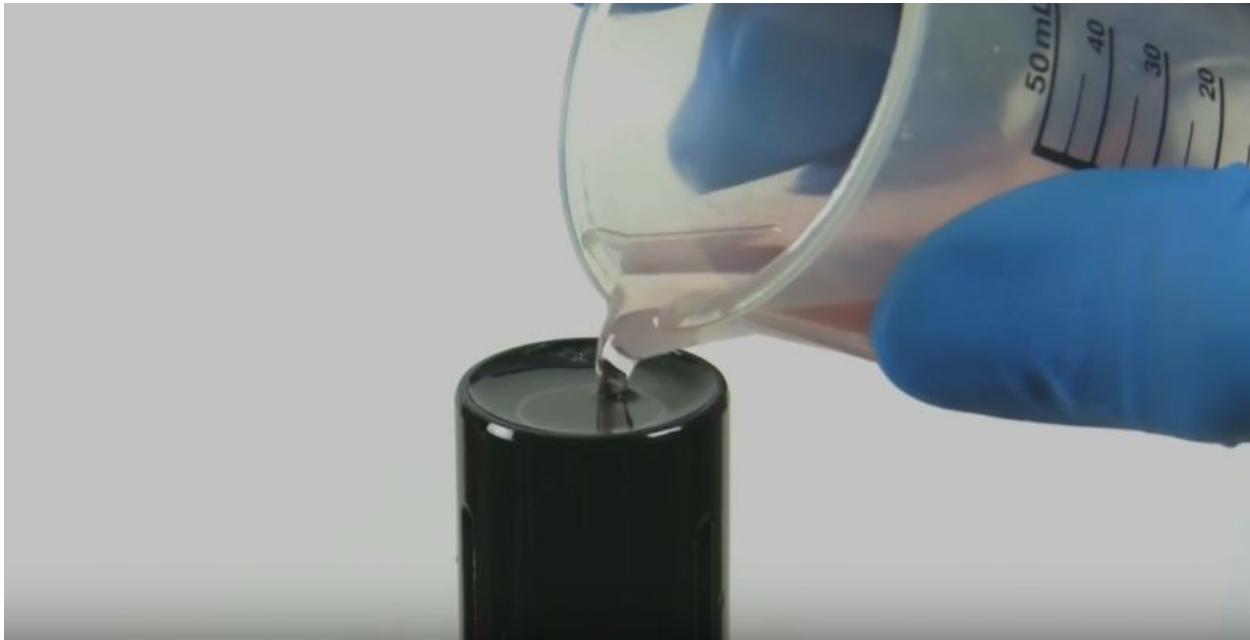
insert the IFP into the upper post



use IFP tool to push the ifp to 10-20mm



pour additional fluid and again remove the bubbles



apply slick-honey to the piston glide rings and o-ring



insert shaft piston into the upper post inner tube, just enough for the o-ring to contact the inner tube





release the hose clamp on the bleed tool



place a drip container underneath



hold the shaft and use the IFP tool to push the IFP to correct depth (100mm for 100mm and 125mm for 125mm posts)



pour excess fluid out



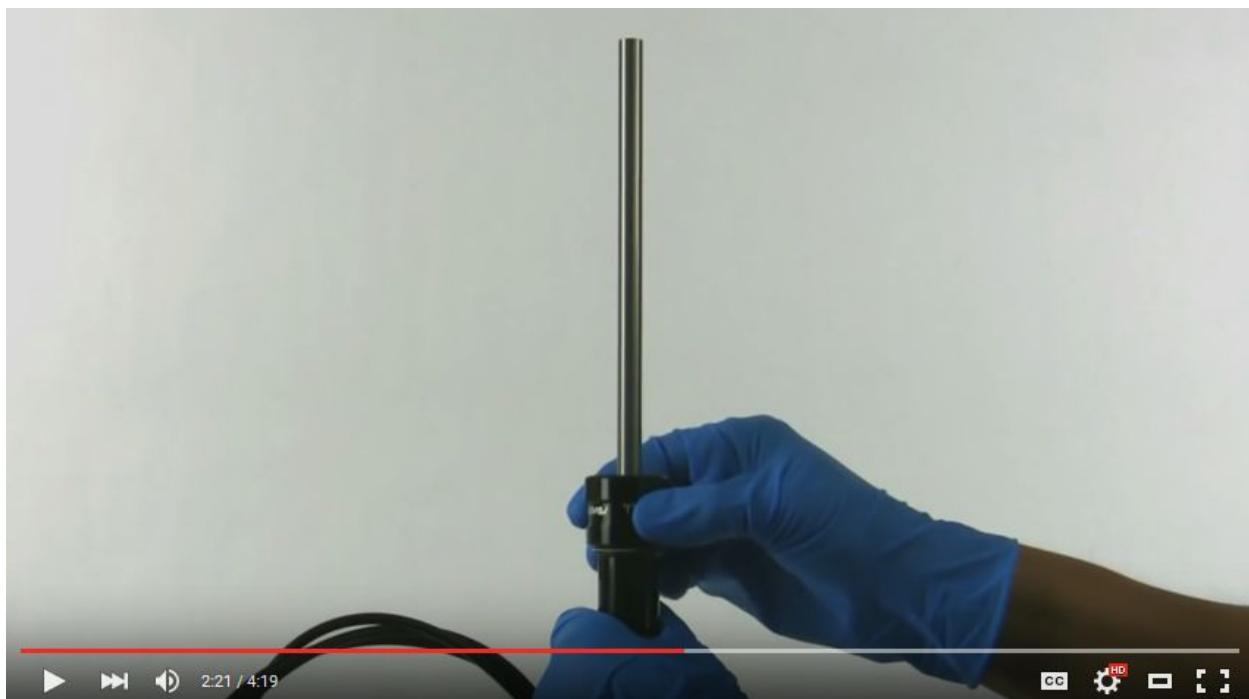
apply liberal amount of slick honey to the top cap seals and bushing



install the top cap to the upper post and slide it until it clears the key slots

# IMPORTANT

Do not move the shaft during top cap installation



apply liberal amount of slick honey to the inside and outside seals and bushing of the inner seal head



while holding the shaft in place, slide the inner seal head to place and thread it to upper post  
RECOMMENDED: use blue loctite on the threads





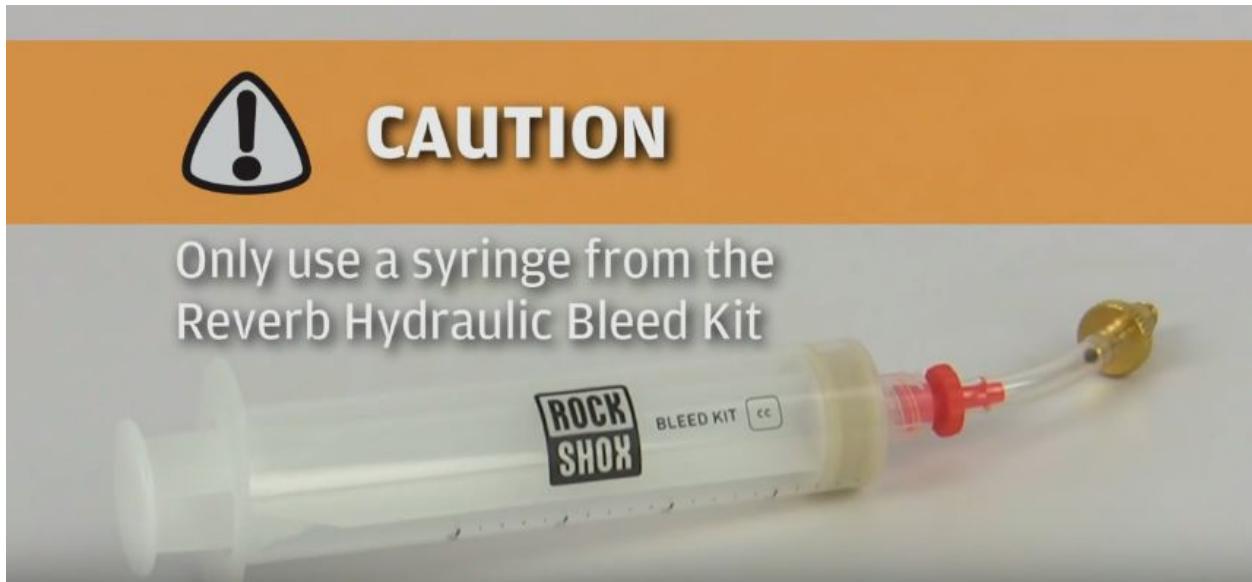
tighten the internal seal head



clamp the post from the internal seal head



remove the bleed tool and insert oil level tool





remove excessive oil



insert a small amount of slick honey into the o-rings of the pop-it-open valve



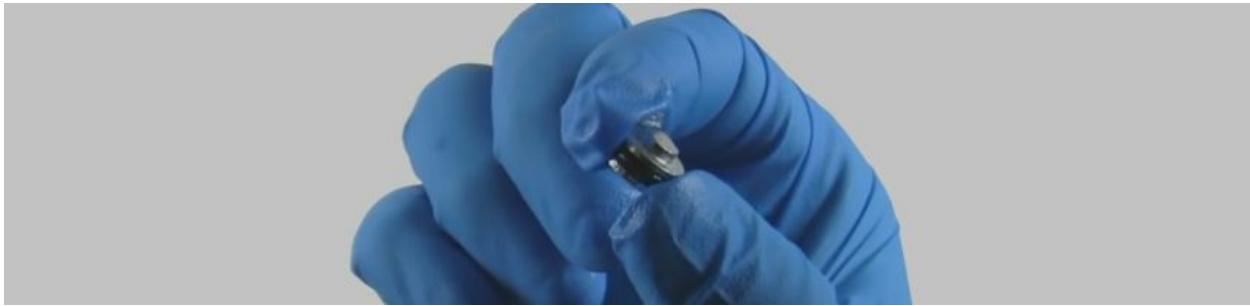
insert the pop-it to the post head



push firmly until it stops



apply small amount of slick honey to the plug o-ring



insert the plug into the post head and press firmly until it clears the snap ring groove



install the plug washer (make sure it also clears the snap ring groove) and insert the snap ring



check that the snap ring is properly seated by rotating it back and forth with the snap ring pliers

put together by <http://t3mppu.kapsi.fi/>



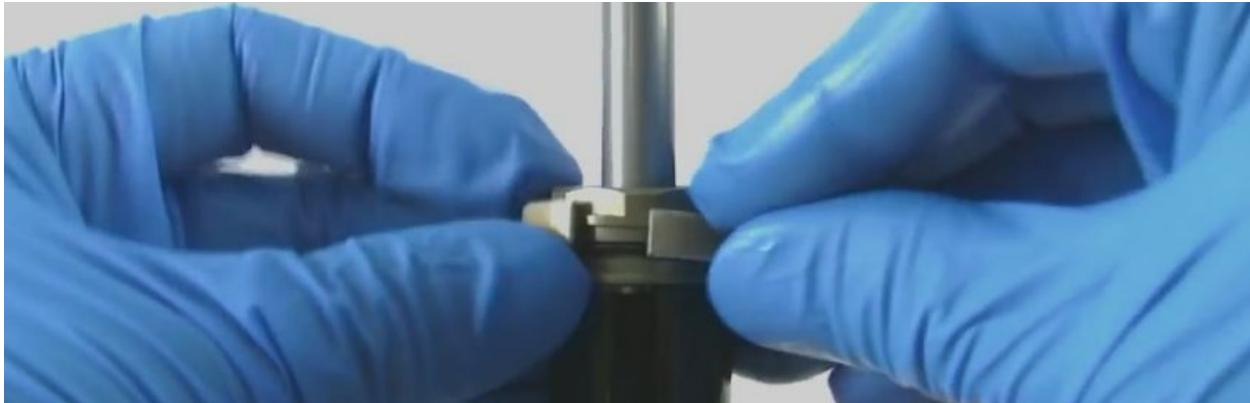
clean the post head



## Part 4: reassembly

<https://www.youtube.com/watch?v=KAmhSLir8hY>

install bushing to internal seal head



clean the inside of the lower post



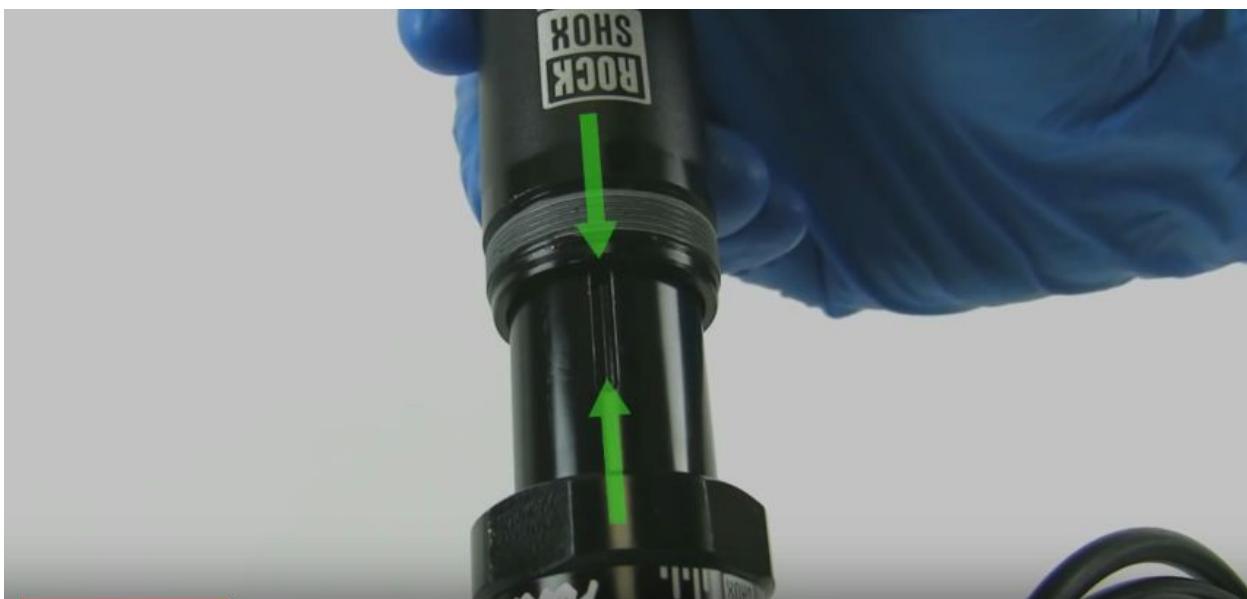
apply liberal amount of slick honey to inside of the lower post



while squeezing the bushing, slide lower post over the upper post until the lowe post starts to cover the key slots



rotate the lower post to align the key slots **NOTE the position if you wish to have the logo backwards**



apply liberal amount of slick honey to the key slots and insert the keys



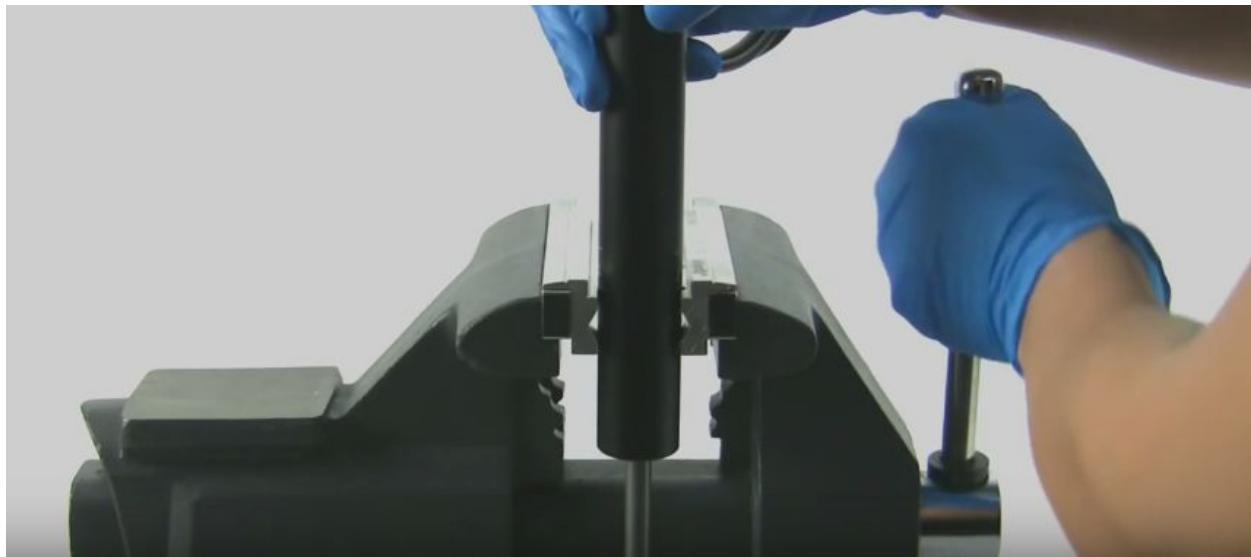
add liberal amount of slick honey over the keys



slide the lower post over the keys and against the top cap



clamp the post to soft jaws below the minimum insertion line, just tight enough to keep the post from spinning



thread the top cap on to the lower post



push teh lower post into the upper post until it stops



insert bottom out o-ring



**for 355 and 420mm posts:** apply small amount of slick honey to false bottom insert o-ring and insert the insert into the lower post (orientation, not critical)



355 mm and 420 mm Posts

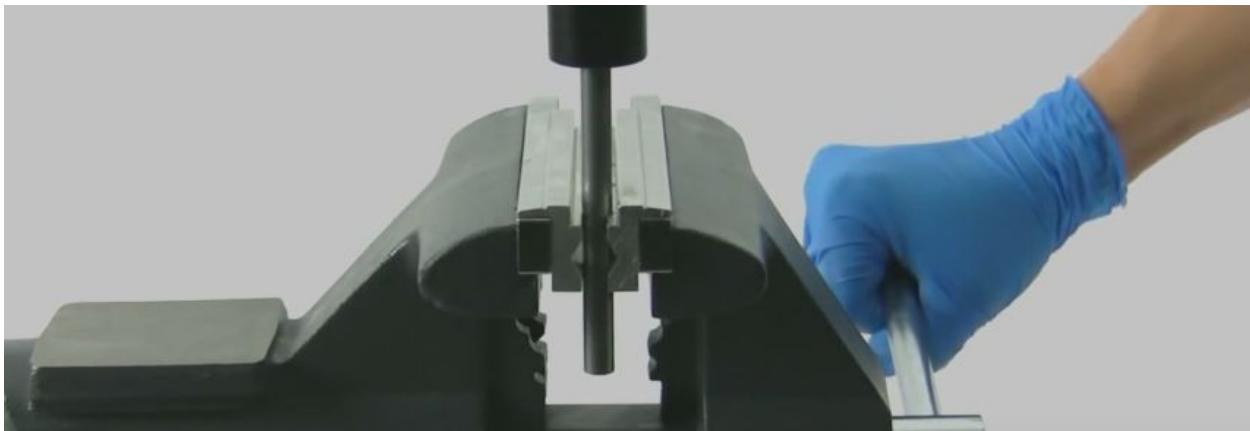


355 mm and 420 mm Posts

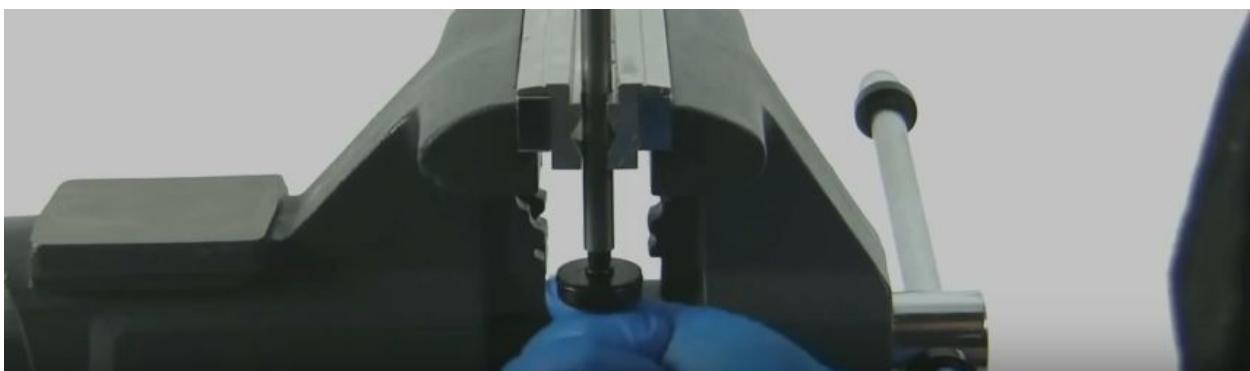
insert foam washer to the shaft



clamp inner shaft to the soft jaws



apply a small amount of slick honey to the outer seal head o-rings and install the outer seal head onto the inner shaft





apply small amount of slick honey to schrader valve and install the valve into the outer seal head



pressurize the seat post to 250psi (17 bar)



install the valve cap



push the lower post over the outer seal head until the snap ring groove is visible



insert the snap ring to the groove and check seating by rotating it back and forth with the pliers



clean the post to remove any slick honey or fluid



install the seat post to the bike and tighten the clamp



attach saddle



install the remote to the handle bar



Bleed the remote



