

DVO
DEVELOPED SUSPENSION

TRAVEL CHANGE GUIDE

DVO | DIAMOND

FOR RIDERS BY RIDERS

This manual will guide you step by step performing a travel change on the DVO Diamond. Please follow each instruction carefully to achieve the best and safest results.

*Always wear your safety gear while working on suspension products.We care about you, make sure you wear your safety glasses and protective gloves while servicing DVO Suspension Products.



WEAR SAFETY GEAR!

Quick Tips before you start!

This procedure can be done on or off the bike. If you are doing this on the bike, make sure you remove the front wheel. You don't want to get oil on the rotor.

*Make sure you use a thin wall socket or you will scratch the top cap and OTT Adjuster!!

Tools needed:

Small allen key- 2-4mm
32mm thin wall socket
18mm thin wall socket
Rubber Mallet
Oil Measuring Container
Heat Gun
Pin Spanners
Shock Pump

IMPORTANT!

USE A THIN WALL SOCKET
OR DAMAGE MAY OCCUR

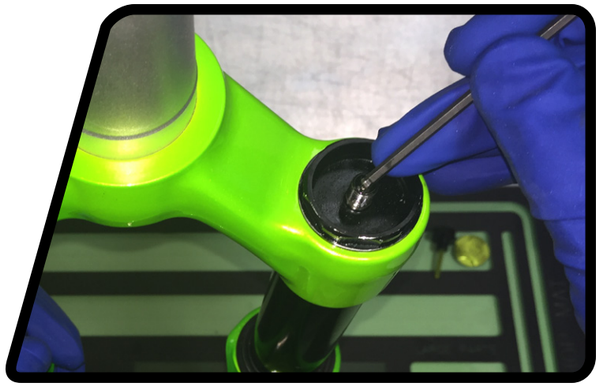
1.

Remove air cap on left side of fork. (Riders Perspective)



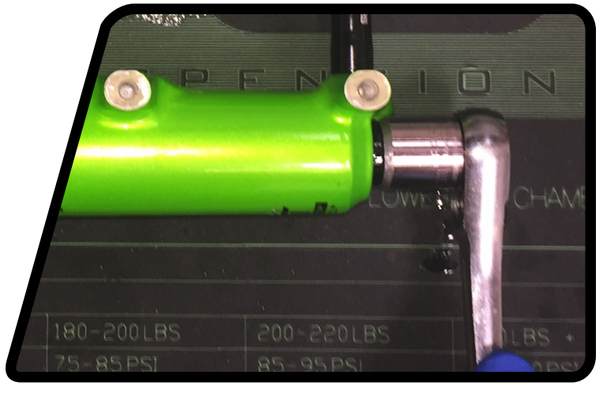
2.

Use a small allen key to release air pressure from fork. Place a towel over the valve to keep oil from spraying.



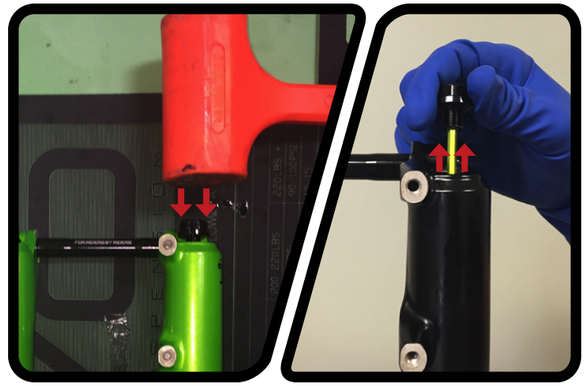
3.

Lay the fork on it's front. Use an 18mm socket to unthread the OTT adjuster. (Do not Remove)



4.

Use a rubber mallet to tap on the OTT adjuster until it bottoms out on the casting. Then remove OTT adjuster from fork.



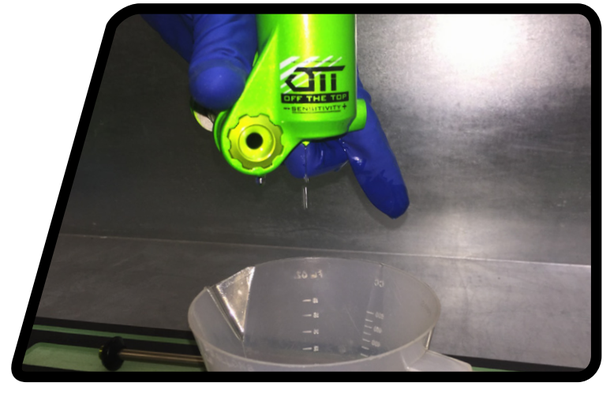
5.

With a 32mm thin wall socket, break the air side top cap loose. Do not remove.



6.

With the fork still laying on it's face, plug the OTT adjuster hole with your finger. Lift the fork up, and drain the 15cc's of oil into a graduated cyclinder.



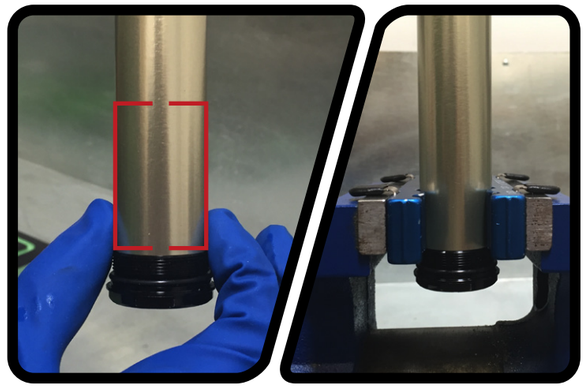
7.

After draining the oil, lay the fork back down on it's front. Unthread the air side top cap and completely remove the air cartridge.



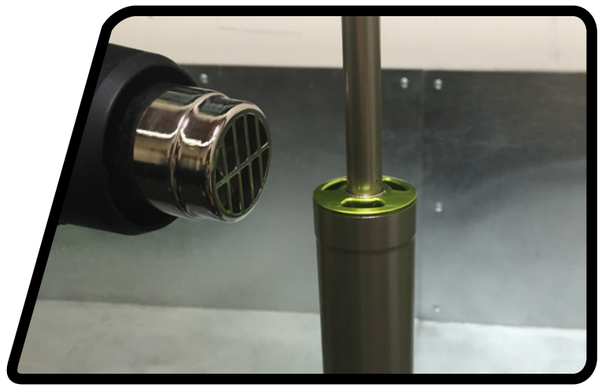
8.

For the next step, you will need 30mm shaft clamps. Clamp the air cartridge body in the area closest to the top cap. (shown in the red lines)



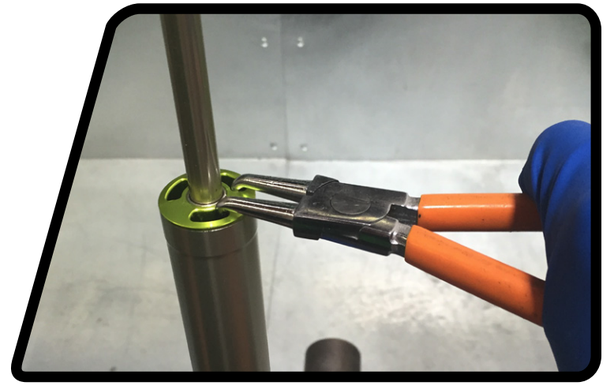
9.

Use a heat gun on a medium setting to melt the loc-tite in the cap. Heat the cap for roughly one to two minutes.



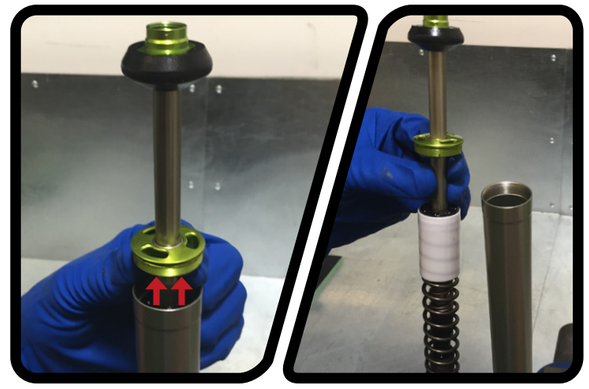
10.

Using a pair of pin-spanners, unthread the cap from the cartridge body.



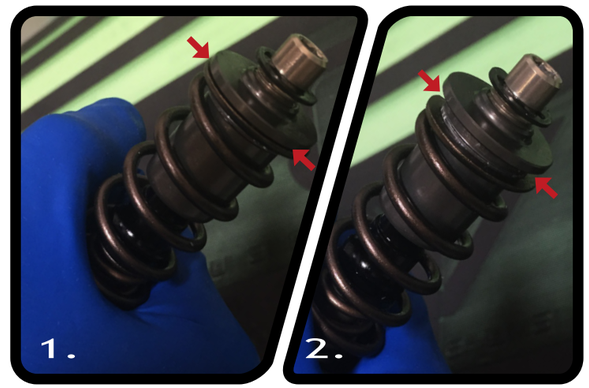
11.

Completely remove the OTT/Negative Spring from the cartridge body.



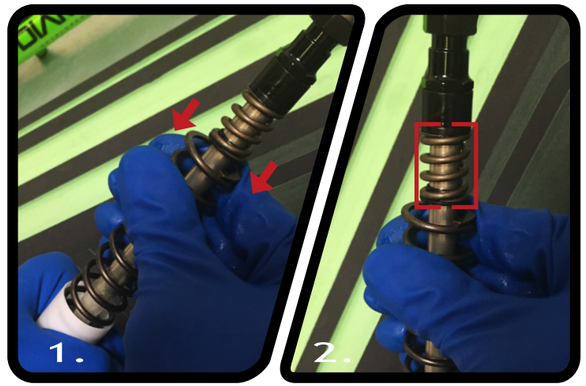
12.

For the next step, you are going to un-seat the negative spring. In photo 1, you can see the spring is seated. With a counter-clockwise twist of the negative spring, you can un-seat the negative spring. (photo 2)



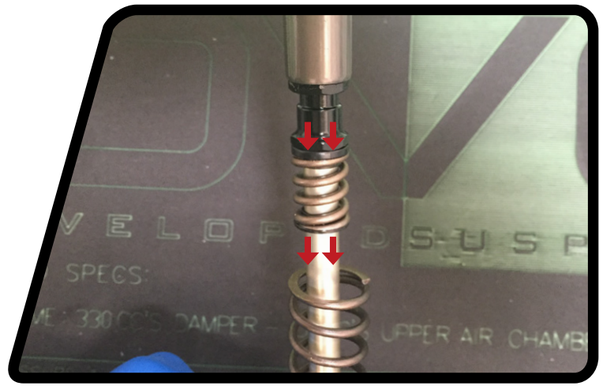
13.

Pull the negative spring (photo 1) down to expose the top out spring (photo 2)



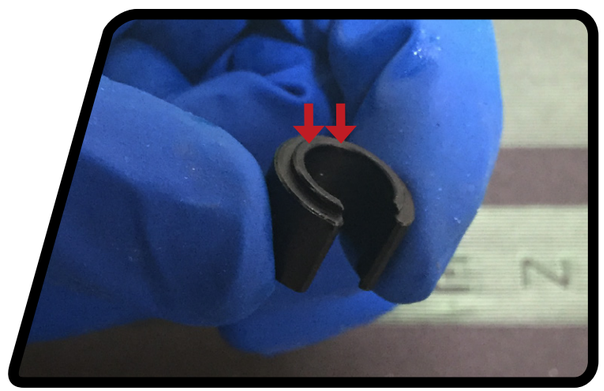
14.

Slide the top out spring down. Get your travel reduction spacers ready.



15.

Your travel reduction spacers are directional. The part with the ridge faces the negative spring. Adding one will make your fork 150mm's, two spacers will make it 140mm's. Each spacer equals 10mm's of travel reduction.



16.

Go ahead and add your desired amount of travel reduction spacers to the negative spring assembly. Remember, the ridge faces the negative spring.



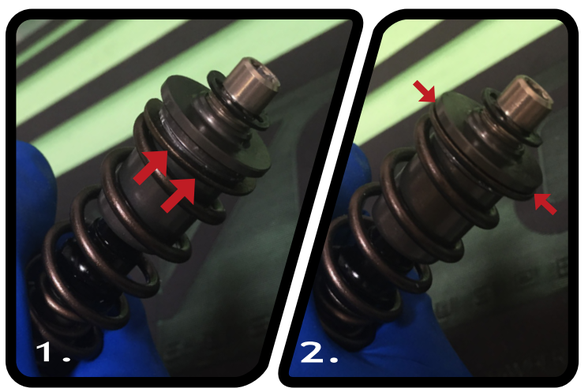
17.

Slide the top out spring up until it seats with the travel reduction spacers.



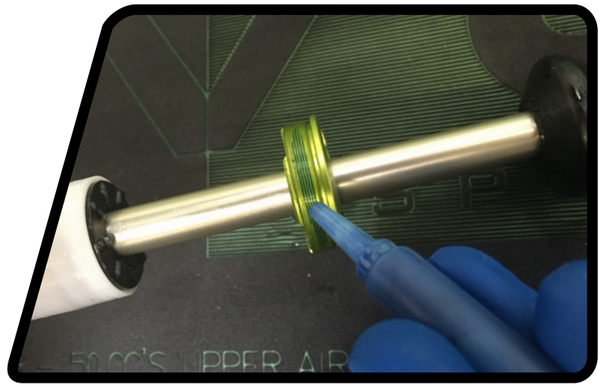
18.

Slide your Negative spring all the way up. (photo 1) With a clockwise twist, seat the spring to the adjuster. Make sure that the negative spring is properly seated. (photo 2)



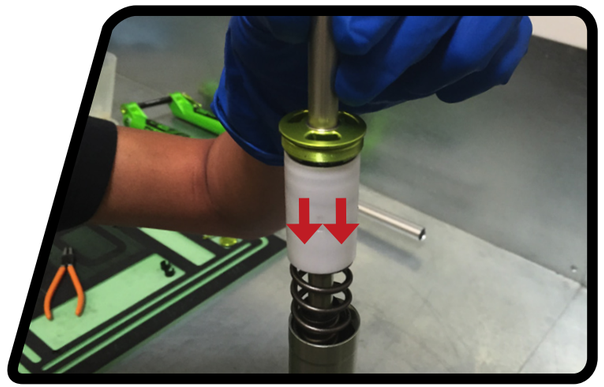
19.

Before re-installing the air spring system into the cartridge body, add a fair amount of blue Loc-Tite to the air spring end cap.



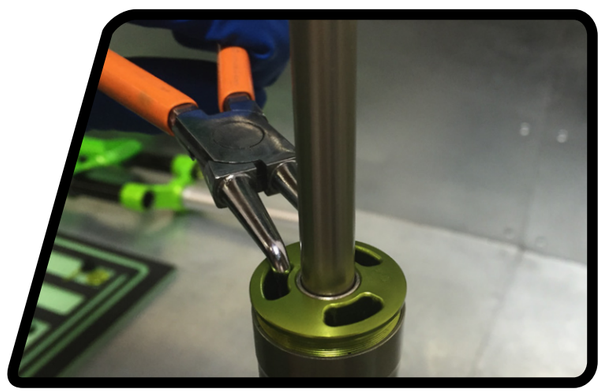
20.

Re-install the air spring into the cartridge body.



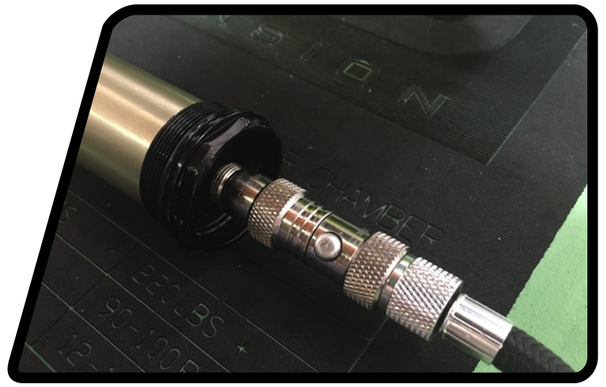
21.

With the pin-spanners, tighten the end cap. Make sure it's tight.



22.

Before installing the catridge back into the fork, inflate the air system to 80psi to extend the cartridge.



23.

Insert the air cartridge into the fork. Pull the casting to extend fork.



24.

With the 32mm socket, tighten to 20 Nm



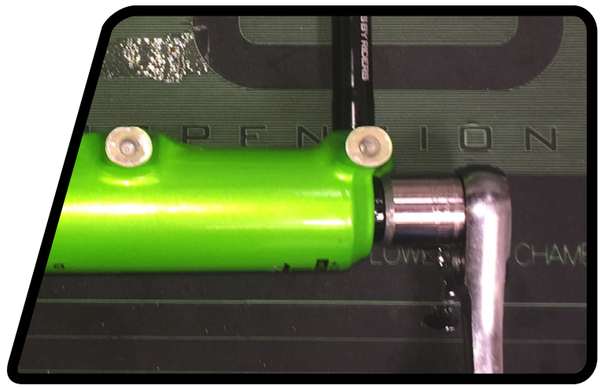
25.

Use the graduated cyclinder and add 15cc's of suspension oil into the casting.



26.

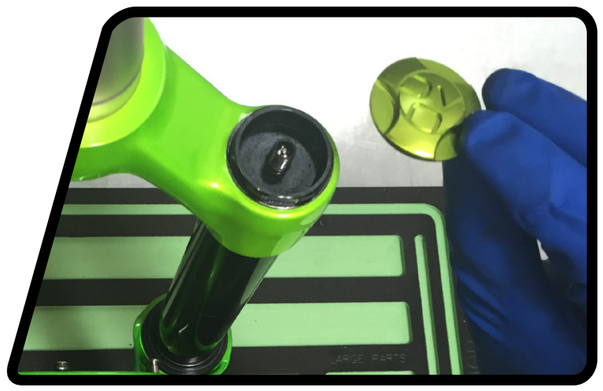
Insert the OTT adjuster. Use the 18mm socket to tighten the foot-nut to **10 Nm**



27.

Inflate the air system to your desired PSI and insert air cap.

You're ready to ride!



FOR RIDERS BY RIDERS

Thank you for choosing DVO Suspension!

If you have any further questions please email **support@dvosuspension.com**

For all other technical information please visit **www.tech.dvosuspension.com**

www.DVOSUSPENSION.COM