

DEVELOPED SUSPENSION

SEAL SERVICE & CASTING CLEANING

DVO | DIAMOND

FOR RIDERS BY RIDERS

This manual will guide you step by step performing a seal service and casting cleaning on a 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.

Tools needed:

Allen key- 2.5mm
32mm thin wall socket
18mm thin wall socket
Rubber Mallet
Oil Measuring Container
35mm Seal Press
Suspension Clean
7.5 wt Oil
18mm Open end Wrench



WEAR SAFETY GEAR!

IMPORTANT!

USE A THIN WALL SOCKET
OR DAMAGE MAY OCCUR

// Intro

1.

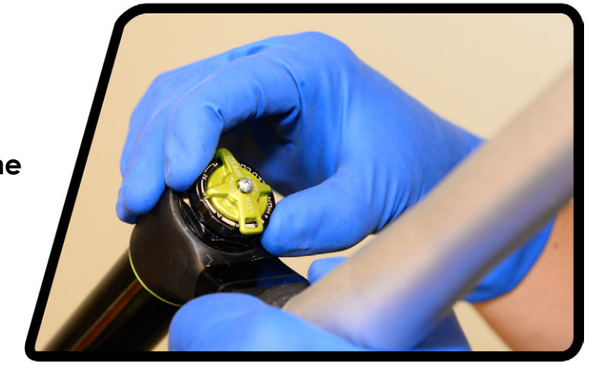
Remove 2.5mm bolt from low speed adjuster.



2.

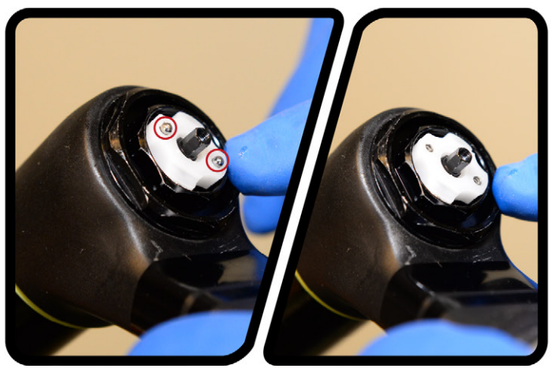
Lift the high and low speed compression adjusters up to reveal the detent insert.

Tip: Remove the adjusters slowly to keep the detents from falling.



3.

Remove the two detents from the detent insert.



4.

Use the 32mm socket to loosen damper side top cap. Do not completley unthread.



5.

Use the 32mm socket to loosen air side top cap. Do not completley unthread.



6.

Use the 18mm socket to loosen the rebound side footnut.



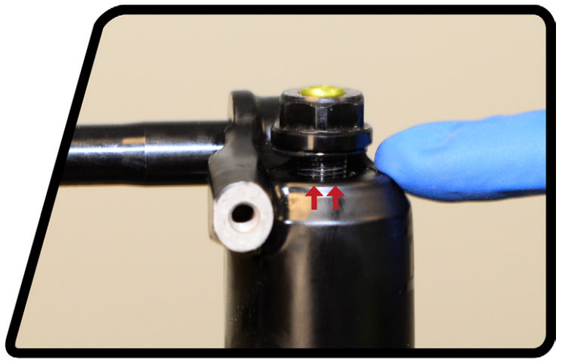
7.

Use the 18mm socket to loosen the air side footnut.



8.

Do not completely remove the footnuts from the casting. Make sure there is a gap as shown.



OTT Adjuster/Air Side

9.

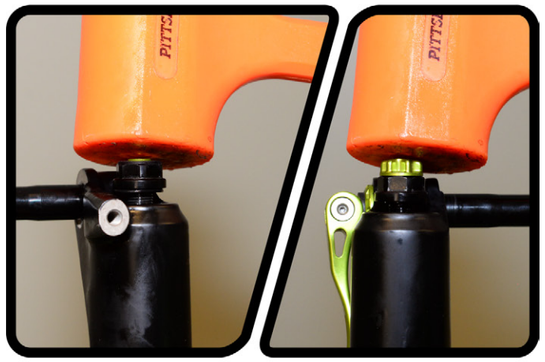
Do not completely remove the footnuts from the casting. Make sure there is a gap as shown.



Rebound Adjuster/ Damper

10.

Use the rubber mallet and tap on the footnuts until they are flush with the casting.



11.

The footnuts are now flush with the casting. The cartridges are now free from the casting.



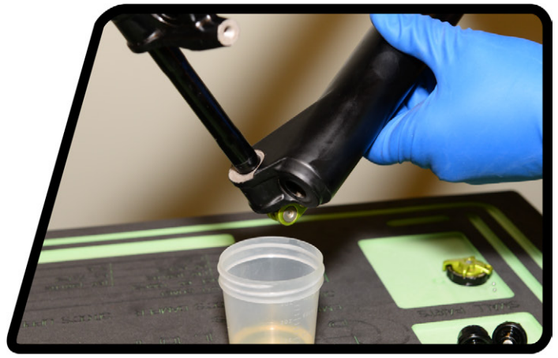
12.

Remove both adjusters from the casting.



13.

Drain the oil from both sides of the casting.



14.

Once the oil has been drained, remove both cartridges completely.



15.

With one hand grab the arch, and with the other hand, pull the upper assembly upward.



16.

Completely remove upper assembly from the casting.



17.

Use an 18mm open end wrench to remove the seal from the casting.



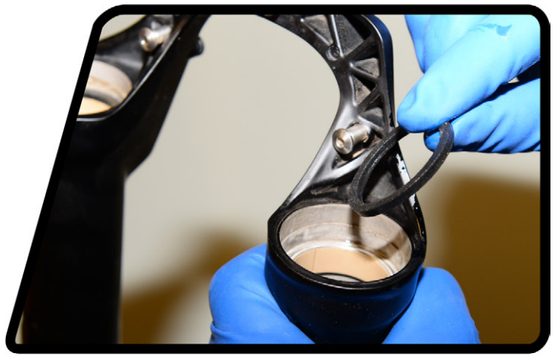
18.

Make sure the seal is completely removed.



19.

After both dust seals have been removed, remvoe the foam rings from the casting.



20.

Use suspension clean to remove any contaminents from inside the casting.



21.

Wipe clean with a paper towel.



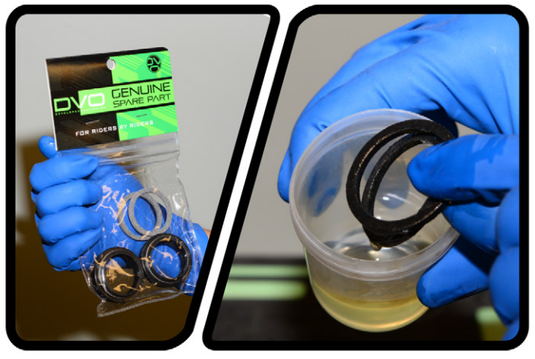
22.

Make sure the seal area and upper bushing is thoroughly clean and free of any debris.



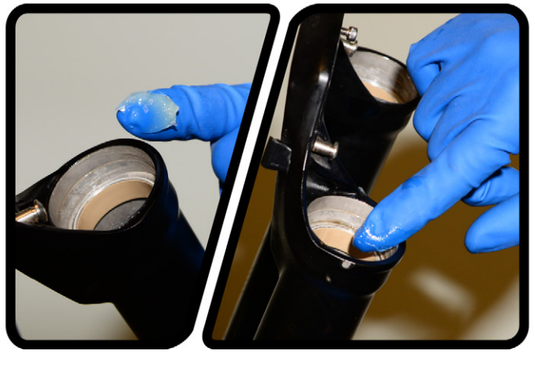
23.

Grab the new foam rings and soak them in 7.5 wt oil.



24.

Lightly grease the inside of the casting where the new seal will sit.



25.

Use the 35mm seal press to install the new seal.



26.

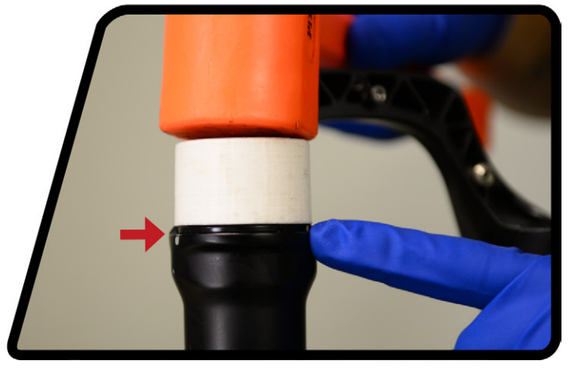
Use the rubber mallet to press in the new seal.



27.

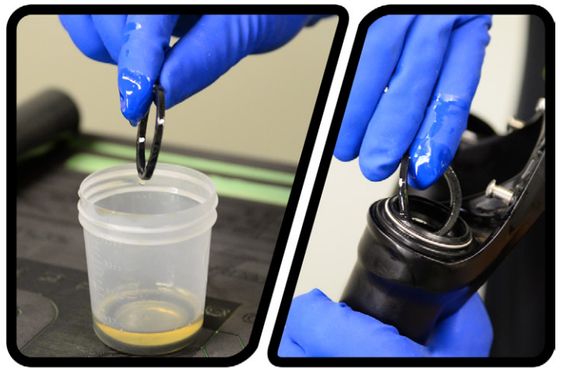
The new dust seals should sit flush in the casting. Make sure the edges of the seal are evenly pressed into casting.

Repeat steps 24-27 for the second seal.



28.

Grab the foam rings from the oil container to insert them under the seal.



29.

The foam ring will sit under the seal and right above the upper bushing.



30.

Apply a thin layer of grease on inside of the seal.



31.

Reinsert upper assembly into casting. Start with the stanchion tubes at a slight angle as shown.



32.

Once the stanchion tube has passed the dust seal, insert straight down.



33.

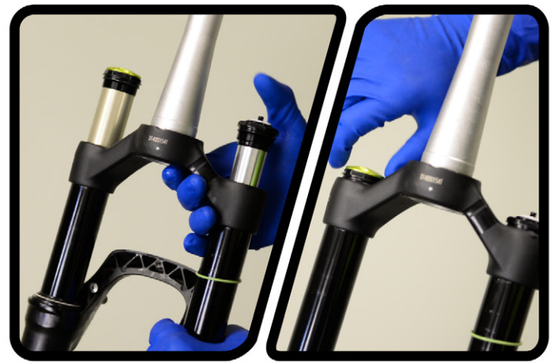
Now insert both cartridges.



34.

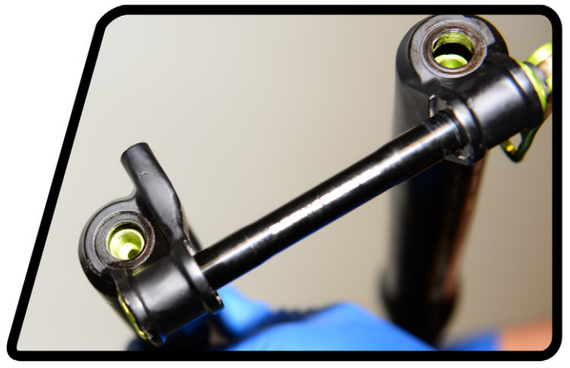
Raise the upper assembly until the crown touches the top caps of the cartridges.

Hand tighten top caps into crown.



35.

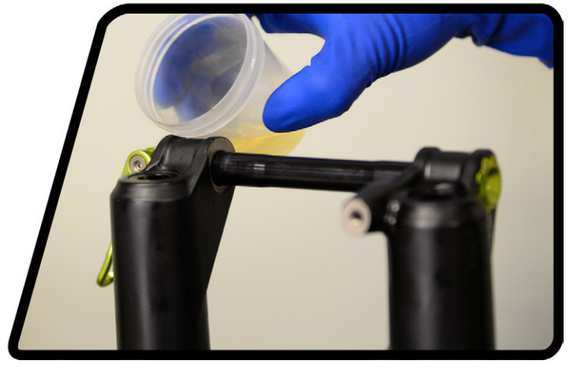
Flip the fork upside down and it should look like this.



36.

Insert 35cc's of 7.5 wt. oil into the damper side.

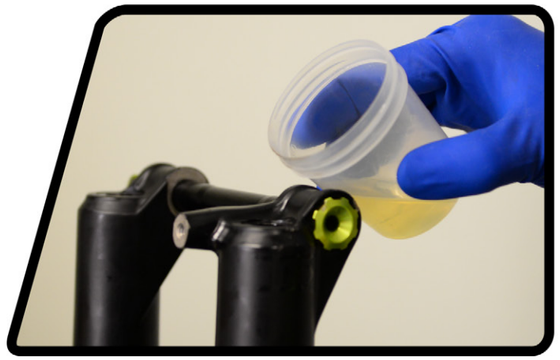
Tip: Pull up on the casting to make room for the oil to pour in.



37.

Pour 25cc's of 7.5 wt. oil into the air side.

Tip: Pull up on the casting to make room for the oil to pour in.



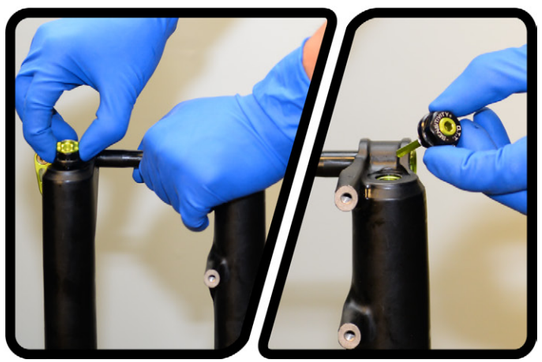
38.

Pull the casting down until the bottom of the cartridges are touching the floor of the casting.



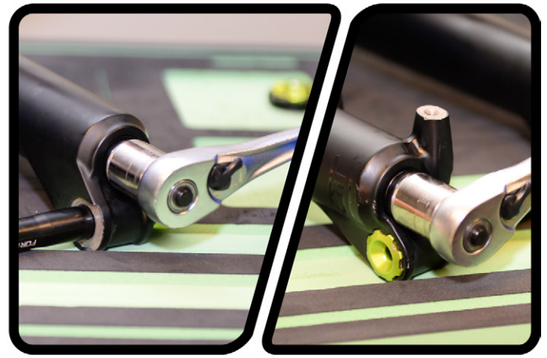
39.

Insert both adjusters.



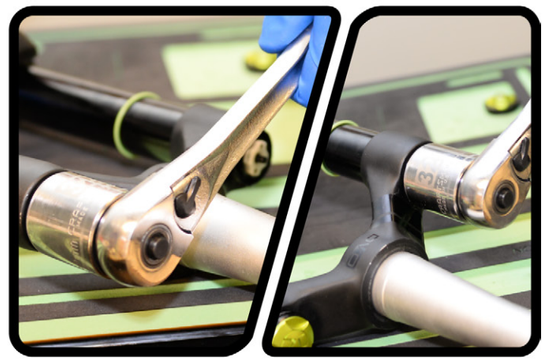
40.

Use the 18mm socket to tighten both footnuts to 10nm.



41.

Use the 32mm socket to tighten both top caps to 20nm.



42.

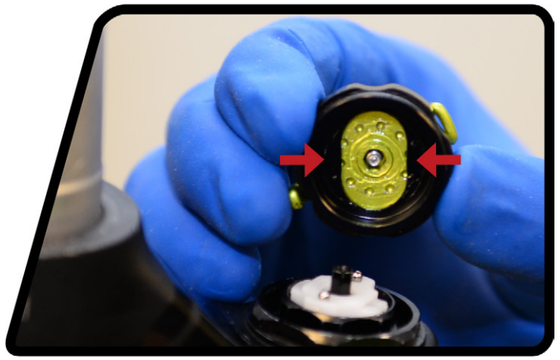
Reinstall the two detents into the detent insert.

Tip: You can apply some grease to the detents to keep them from falling out.



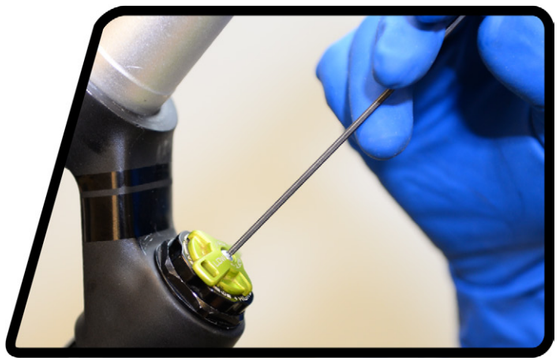
43.

Line up the flat edges of the compression adjusters with the flat edges of the detent insert.



44.

Use the 2.5mm allen key to tighten the compression adjusters.



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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