



DVO
DEVELOPMENTSUSPENSION

INDE

OWNER'S MANUAL



Congratulations!

Thank you for purchasing DVO Suspension for your mountain bike. DVO Suspension products are designed by riders for riders. It is very important for your safety that you follow the guidelines, instructions and set-up information provided in this owner's manual or on our website

www.dvosuspension.com

Register Your Product

Log on to www.dvosuspension.com and click Register. DVO Suspension wants you to achieve the highest level of performance out of your suspension. Let us know which products you have so we can keep you updated with the latest set up and tuning information. Please visit our website tech.dvosuspension.com for more detailed information and tuning videos.



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WARNING!

**Failure to comply with these warnings and instructions may cause
SERIOUS INJURY, DEATH, or DAMAGE TO YOUR PRODUCT.**

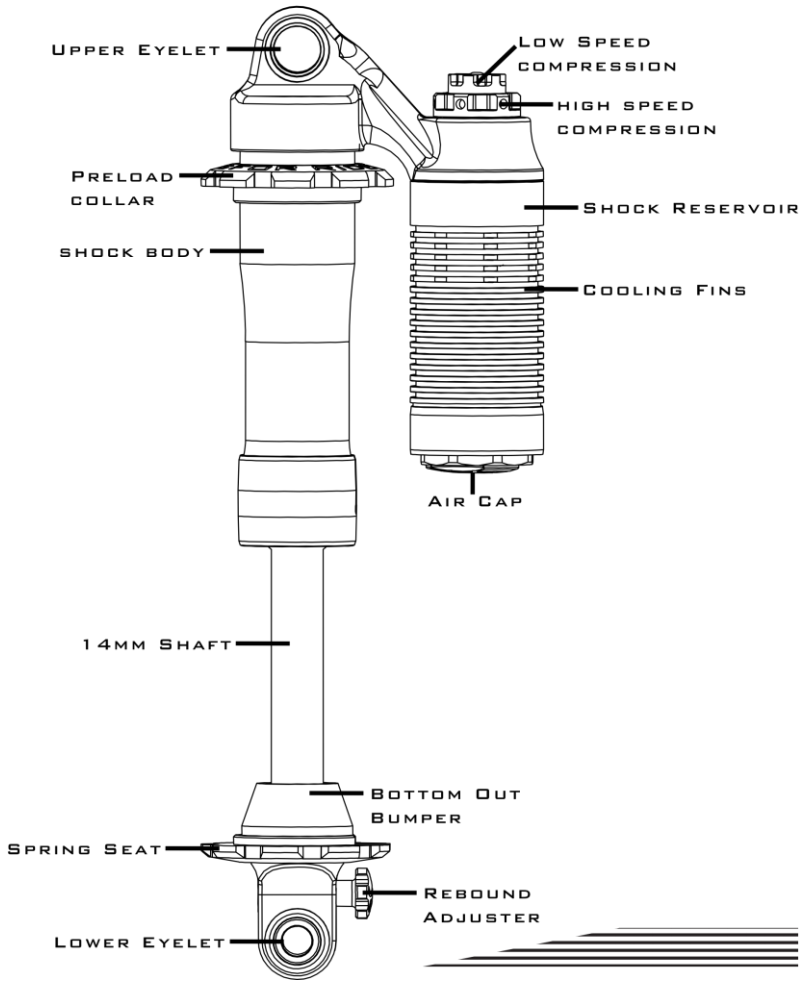
- Be sure to read this manual carefully before using your suspension rear shock. Throughout this manual, reference is made that “an accident” could occur. Any accident may cause damage to the product, **SERIOUS INJURY, OR DEATH.**
- These instructions contain important information about the correct installation, guidelines for set-up, service and maintenance of your suspension rear shock. Nevertheless, please be informed that special knowledge and tools are essential to install, service and to maintain DVO Suspension rear shocks. Common mechanical knowledge may not be sufficient to repair service or maintain your shock. Therefore we strongly recommend getting your shock installed, serviced and/or maintained by a trained and qualified bicycle mechanic. Improper installation, service or maintenance can result in an accident.
- Suspension rear shocks contain fluids and air under extreme pressure. **DO NOT** attempt to disassemble any portion of a DVO Suspension product unless instructed to do so by a DVO Suspension authorized technician.
- Only use genuine DVO Suspension replacement parts. Modification, improper service, or the use of aftermarket replacement or spare parts may result in an accident and **VOIDS** the warranty of your rear shock.
- DVO Suspension rear shocks are designed for the usage by a single rider only. **DO NOT** use DVO Suspension products on any motorized bicycle, or motorized vehicle.
- Always be equipped with proper safety gear. This includes a properly fitted and fastened helmet. According to your riding style you should use additional safety protection. Make sure your equipment is in flawless condition.
- Make sure you select the correct rear shock according to your frame, size and your riding style. Installing a rear shock that does not match the geometry of your frame could result in a failure of the rear shock itself and void the rear shocks warranty. Installing a suspension rear shock will change the geometry and handling of your bike. Learn how to ride and train your skills. Know your limits and never ride beyond those.
- Study all other manuals provided with your bicycle and make yourself familiar with all components mounted to your bike.



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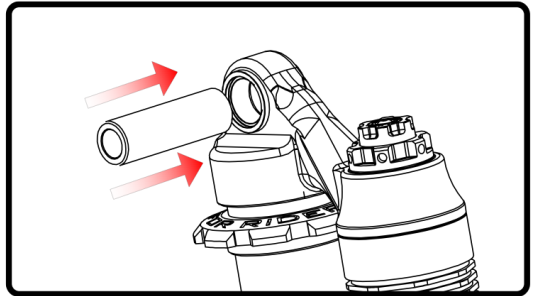
PRODUCT OVERVIEW



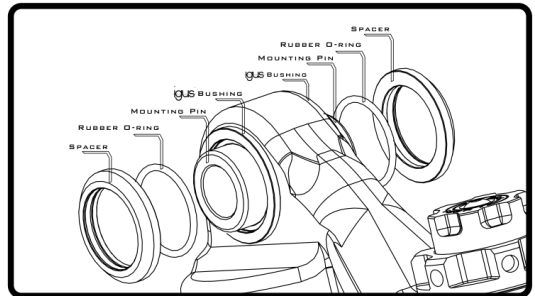
HARDWARE INSTALLATION

The Jade Coil comes equipped with high performance, low friction igus bushings and mounting hardware specific to your frame manufacturer's specifications. The igus bushings contain a dry lubricant; they do NOT need to be lubricated.

1. Insert pin into upper and lower eyelet. Make sure the pin is spaced evenly in shock eyelet.



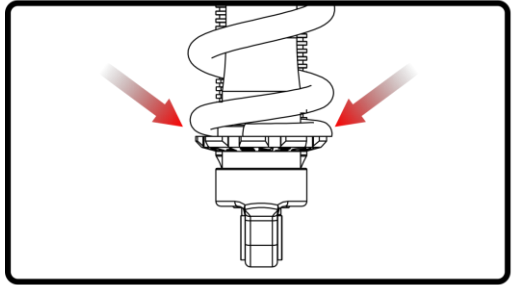
2. Insert hardware in the order shown. Apply a light layer of grease to the rubber O-Ring before putting on the mounting pin.



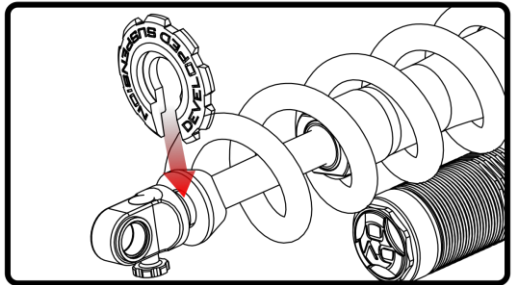
SPRING INSTALLATION

Installing your spring correctly is extremely important for performance. If installed incorrectly, the shock can experience unnecessary wear.

1. Insert spring onto shock body. Make sure the spring is seated evenly on the preload collar. (upper eyelet shown)



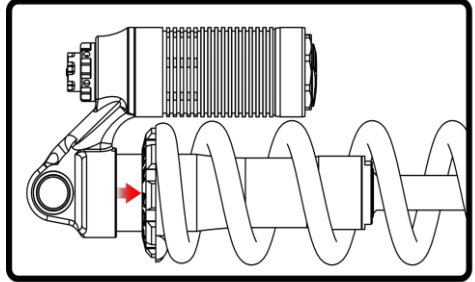
2. Move the spring away from the lower eyelet by turning the preload collar. Then insert spring clip.



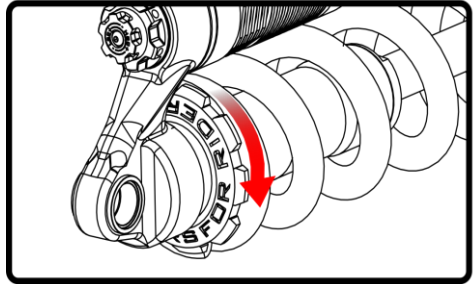
PRELOAD

By adjusting the preload, we change how much the shock initially resists being compressed.

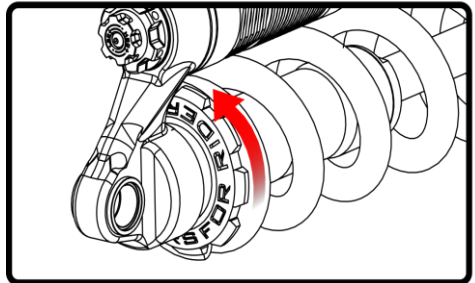
1. The maximum amount of preload length is 5mm. Going further can cause the spring to be loaded outside of its intended design that could result in a failure and void the manufacturer warranty.



2. Rotating the preload collar clockwise will increase spring preload.



3. Rotating the preload collar counter-clockwise will decrease spring preload.



SAG

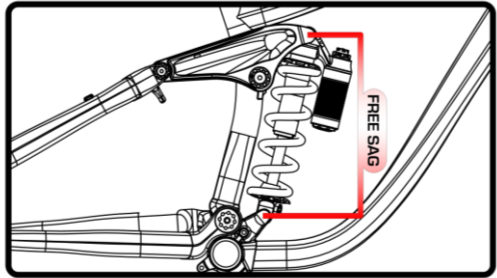
SAG is the amount your shock compresses under your body weight. Since this is a Downhill specific shock, measure SAG by mounting your bike in the “attack position”. Proper SAG is 25-30%.

The formula for calculating sag is:

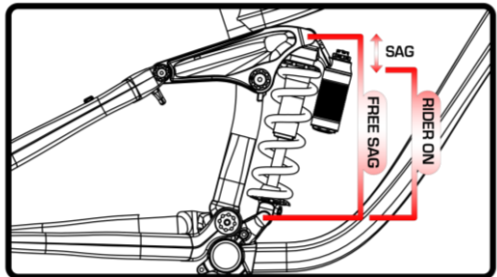
Uncompressed eye to eye length – Compressed eye to eye length = Sag[mm]

$\text{Sag[mm]} \div \text{Total Shock Stroke[mm]} \times 100 = \text{Your Sag[\%]}$

1. First measure the Uncompressed eye to eye length.



2. Mount the bike in your attack position. Measure the distance from the upper to lower eyelet. The difference between your first measurement (uncompressed) and the second one (compressed) is your SAG.

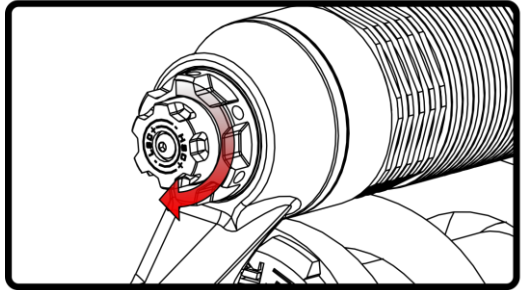


ADJUSTMENTS

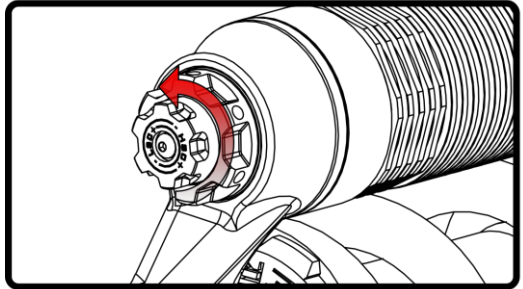
High Speed Compression

HSC controls the damping force under faster suspension movements regardless of the riders speed. This effects drops, big hits, take offs, landings, and square edge hits.

1. Turning the knob clockwise will increase the amount of low speed compression. (making it firmer.)



2. Turning the knob counter-clockwise will decrease the amount of high speed compression. (making it softer.)

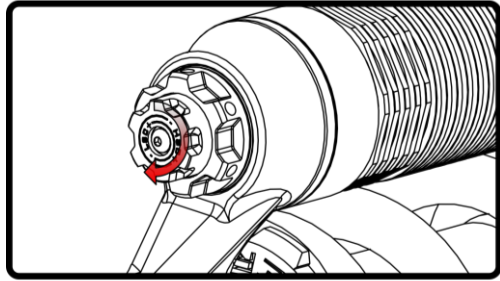


ADJUSTMENTS

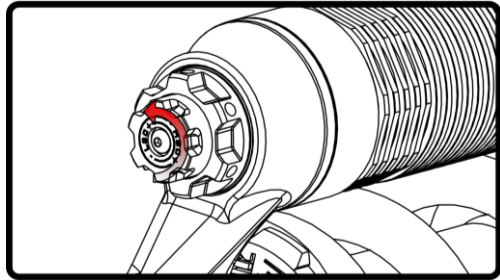
Low Speed Compression

LSC controls the influence of the rider's weight and the bike's attitude under slower suspension movement regardless of riders speed. Low Speed controls suspension performance in braking bumps, pedaling, & slow technical trails.

1. Turning the knob clockwise will increase the amount of low speed compression. (making it firmer)



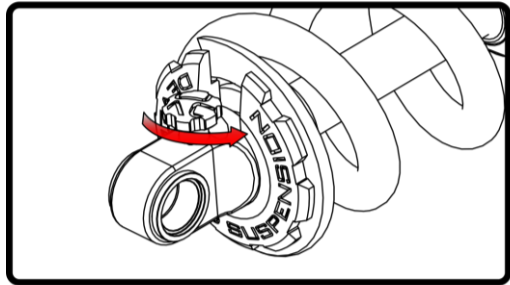
2. Turning the knob counter-clockwise will decrease the amount of low speed compression. (making it softer)



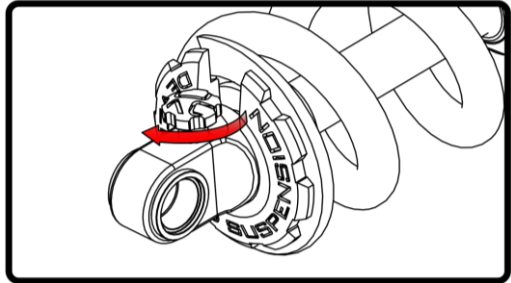
ADJUSTMENTS

Rebound controls the speed at which the fork extends after compression. Rebound damping control is relative to the spring rate used. Higher spring rates require more (slower) rebound damping and a lower air pressure will require less (faster) rebound damping so please adjust accordingly.

1. Turning the knob counter-clockwise will decrease the amount of rebound damping. (making it faster)



2. Turning the knob clockwise will increase the amount of rebound damping. (making it slower)

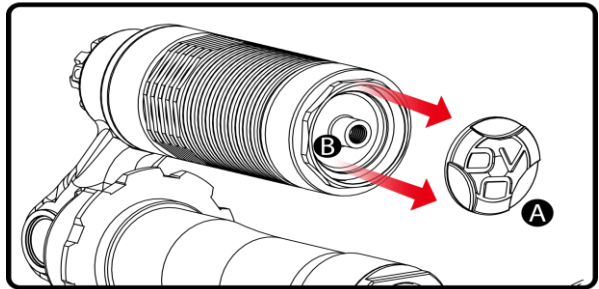


AIR PRESSURE

The Jade Coil features a bladder in place of a traditional IFP (Internal Floating Piston) for optimum small bump sensitivity. The purpose of the bladder is to separate the air from the oil in the reservoir. To achieve the best performance and durability, it is extremely important to set the air pressure to the proper range.

AIR PRESSURE RANGE 160-200PSI

1. Remove air cap (A) to access air valve (B). Thread on a suspension specific pump and apply air pressure within the proper range. 160-200 psi.



WARNING

Only use a suspension specific hand pump. DO NOT use compressed air to inflate shock.



LIMITED TWO (2) YEAR WARRANTY

If any component of your DVO Suspension product is found to be defective in materials or workmanship within the term of this Limited Two Year Warranty (the "Agreement"), the defective component will be repaired or replaced, at the option of DVO Suspension free of charge, within thirty (30) days after receipt of the Suspension product by an authorized DVO Suspension dealer, freight prepaid, together with the original retail invoice or other evidence of the date of purchase.

NOT COVERED: This warranty does not cover damage resulting from accidents, alteration, neglect, misuse, abuse, or improper use, lack of reasonable or proper maintenance, improper assembly, repairs improperly performed or replacement parts or accessories not conforming to DVO Suspension's specifications, modifications not recommended or approved in writing by DVO Suspension activities such as acrobatics, stunt jumping, ramp riding, racing, commercial use, and / or normal wear or deterioration occasioned by the use of the product. Items subject to normal wear or deterioration include but are not limited to oil, dust seals, oil seals, and bushings. In addition, this warranty is void in the event that the forks are used with any rental bicycles, unless DVO Suspension provided prior approval in writing for such use. This warranty also does not include any expenses related to the transportation of the DVO Suspension product to or from an authorized DVO Suspension dealer, labor costs to remove the DVO Suspension product from the bicycle, or compensation for inconvenience or loss of use while the DVO Suspension product is being repaired. This warranty will be automatically void if serial number of the DVO Suspension product is altered, erased, defaced or otherwise subject to any tampering.

PURCHASER. This warranty is made by DVO Suspension with only the original purchaser of the DVO Suspension product and does not extend to any third parties. The rights of the original purchaser under this warranty may not be assigned.

TERM. The term of this warranty shall commence on the date of purchase and shall continue for a period of two (2) years from the date of the original purchase.

PROCEDURE. In event of a defect covered by this warranty, the purchaser should contact an authorized DVO Suspension dealer or a DVO Suspension Service Center.

ENTIRE AGREEMENT. This warranty supersedes any and all oral or express warranties, statements or undertakings that may previously have been made, and contains the entire agreement between the parties with respect to the warranty of this DVO Suspension product. Any and all warranties not contained in this warranty are specifically excluded.

DAMAGES. Except as expressly provided by this warranty, DVO Suspension **SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ASSOCIATED WITH THE USE OF THE DVO SUSPENSION PRODUCT OR A CLAIM UNDER THIS AGREEMENT, WHETHER THE CLAIM IS BASED ON CONTRACT, TORT OR OTHERWISE.** The foregoing statements of warranty are exclusive and lieu of all other remedies. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.

DISCLAIMER. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL IMPLIED WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OF TRADE, BY STATUTE OR OTHERWISE, IS HEREBY STRICTLY LIMITED TO THE TERM OF THIS WRITTEN WARRANTY. This Agreement shall be the sole and exclusive remedy available to the purchaser with respect to this purchase. In the event of any alleged breach of any warranty or any legal action brought by the purchaser based on alleged negligence or other tortious conduct by DVO Suspension the purchaser's sole and exclusive remedy will be repair or replacement of defective materials as stated above. No dealer and no other agent or employee of DVO Suspension is authorized to modify, extend or enlarge this warranty.

WARNING. Always install, repair and use your DVO Suspension product in strict compliance with its owner's manual.

OTHER RIGHTS. This warranty gives you the specific legal rights, and you have also other rights which vary from state to state (USA only).

APPLICABLE LAW. Any disputes arising out of this agreement or the use of this DVO Suspension product will be governed by the laws of the country of United States and will be decided by the Courts of California.



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