



**DUVO**

FORK

**SET UP GUIDE**

2020



## PRE-RIDE CHECK

1. Do not ride your bicycle if any one of the following test criteria is not passed! Riding your bike without eliminating any defect or carrying out the necessary adjustments can result in an accident, serious injury or even death.
2. Do you notice any cracks, dents, bent or tarnished parts of your suspension fork or any other part of your bicycle? If so, please contact a trained and qualified bicycle mechanic to check your fork and/or complete bike.
3. Do you notice any oil leaking out of your fork? Check hidden areas like behind the fork arch under the crown and main seals. If so, please consult a trained and qualified bicycle mechanic to check your fork or bike.
4. Make sure your wheels are perfectly centered in order to avoid any contact with suspension fork or brake system.
5. Make sure the axle system is secure. There should be no play between hub and fork lower.
6. Compress your fork with your body weight. If it feels too soft, inflate to the proper pressure to achieve accurate SAG, inflate until your SAG is between 15-20%. Please also refer to SAG section for more details.
7. Make sure your brakes are properly installed/adjusted and work appropriately. This also applies to every other part of your bike like handlebars, pedals, crank arms, seat post, saddle, etc.
8. Check the cable length and routing of your components. Make sure they do not interfere with your steering actions or full compression and extension of your fork.

## SOME HELPFUL TIPS:

1. All of these settings are just starting points to get you close. Don't be afraid to use your adjusters or change up your settings to make it perfect for you.
2. Write down your settings! Modern suspension forks have a ton of adjustment which is awesome, but you can get lost. When you find a good spot, write it down so you can always go back to it.
3. Dedicate time to setting your bike up for the trail, not the parking lot. It's a good idea to get out on the trail and find a section you can repeat. Try different settings to truly feel what the adjusters are doing. Once you truly understand what they do and feel like, you'll know when to use them in any situation.
4. Balance is key! This is a big one. Try your best to get your fork and shock feeling equal. If the rebound in the rear shock is way faster than fork, the bike won't have a very predicable ride. Feel to make sure the rebound, spring rate, and compression are having similar feelings front and back. This will provide a predictable and confidence inspiring ride.
5. If you have questions, don't hesitate to ask. Give us a call, shoot us an email, we'll get you dialed in!



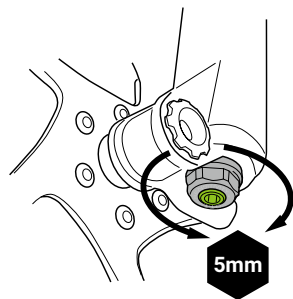
## STEP 1: OTT SETTING

OTT is a DVO Exclusive Performance Feature that delivers amazing traction, comfort & control matching a wide range of riders weights & skill levels. OTT allows the rider to fine tune the small bump sensitivity without affecting the mid-stroke or end-stroke.

**D1 / E1 Models:** Externally Adjustable OTT    **D2 / E2 Models:** Internally Adjustable OTT    **D3 / E3 Models:** No OTT Feature

### D1 / E1 OTT Setting

Our D1/E1 models come with an externally adjustable OTT. This is a 5mm allen key adjustment located on the bottom of the left fork leg. When adjusting the OTT, go by full rotations not by clicks.



**Important: Let the air out of the fork before adjusting OTT!**

| Rider Weight | Number of OTT Rotations Starting From Open |   |   |   |   |   |   |   |   |    |    |    |
|--------------|--|---|---|---|---|---|---|---|---|----|----|----|
| LBS          | 1  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 120-140      | ■  | ■ | ■ |   |   |   |   |   |   |    |    |    |
| 140-150      |  |   | ■ | ■ | ■ |   |   |   |   |    |    |    |
| 150-160      |  |   |   |   | ■ | ■ | ■ |   |   |    |    |    |
| 160-170      |  |   |   |   |   |   | ■ | ■ | ■ |    |    |    |
| 170-180      |  |   |   |   |   |   |   |   | ■ | ■  | ■  |    |
| 180-190      |  |   |   |   |   |   |   |   |   |    | ■  | ■  |
| 200+         |  |   |   |   |   |   |   |   |   |    |    | ■  |



**HEAVIER RIDERS NEED MORE OTT  
LIGHTER RIDERS NEED LESS OTT**

As a general rule of thumb, the heavier or aggressive rider will use more air pressure & more OTT. A lighter or less aggressive rider will use lower air pressures and less OTT.

### D2 / E2 OTT Setting

Our D2/E2 Models come with an internally adjustable OTT. This design provides three settings of OTT which is determined by the rider's body weight.

**Important:** Visit [tech.dvosuspension.com](http://tech.dvosuspension.com) to learn how to adjust your OTT setting.

| Rider Weight | OTT Setting  |                |             |
|--------------|--------------|----------------|-------------|
|              | Open Setting | Middle Setting | Max Setting |
| LBS          |              |                |             |
| 120-150      | ■            |                |             |
| 150-170      |              | ■              |             |
| 170-200+     |              |                | ■           |

### WHAT IS OTT?

OTT stands for "Off The Top" and it does just that. Allow you to tune how your fork feels off the top. OTT gives you the "Best of Both Worlds" for softer initial feel while being firm in the mid-stroke and end stroke... *Run higher air pressures without the harshness.*

### HOW DOES IT WORK?

OTT adjusts the preload on the negative spring inside the air cartridge. The negative spring on your OTT system is a traditional coil spring. You can preload the spring just like you would on a rear coil shock. This gives you the ability to fine tune the initial sensitivity without having it affect the mid-stroke or end stroke.

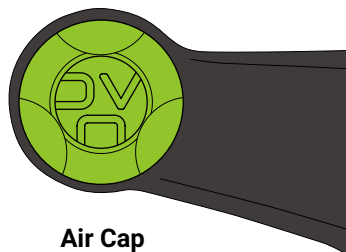
### HOW CAN I USE IT?

Higher air pressures allows fast moving riders to skip over bumps and holes but the downside is the harshness. With the OTT feature, the initial 30mm's of travel can be independently tuned regardless of air pressure. Heavier or fast riders can run higher air pressures while still having amazing small bump sensitivity & traction by simply increasing OTT. Lighter riders who run lower air pressures will use less OTT allowing use of all the travel without having the fork sack or hammock in the middle of the stroke. The Best of Both Worlds!



## STEP 2: AIR PRESSURE

Adjust the air pressure to attain your proper sag setting by removing the air cap and inflating the fork with a suspension pump. Refer to the chart below for your recommended starting pressure based on your rider weight.



### THINK DIFFERENTLY WHEN ADJUSTING PRESSURE

DVO Suspension requires a different mindset to properly adjust and get right. That's the idea of our products, to do things differently and in a better way. In other suspension products, riders can be timid to adjust the air pressure because of the negative effects it would have on different aspects of the travel. For example: If a rider is bottoming out too easily on medium hits, but loves the small bump sensitivity of the fork, they would most likely make a compromise and run the fork too soft. We see this all too often. The features and adjustments on DVO Suspension are there to remove any hesitation you may have or potential compromises you could make with set up. Take the time to set up your suspension and you will be rewarded!

**Do Not Exceed Maximum Air Pressure!**

- Diamond D1-D2-E1-E2: 170 PSI
- Diamond D3-E3: 150 PSI
- Sapphire 34 D1: 150 PSI
- Onyx SC D1-D2-E1-E2: 130 PSI
- Onyx DC: 140 PSI



Set your air pressure for mid-stroke and end stroke support only! Use the OTT feature to fine-tune the small bump sensitivity.

#### SAPPHIRE 34 D1

| Rider Weight |         | Air Pressure (psi) |    |       |    |       |    |       |     |       |     |       |     |       |     |      |
|--------------|---------|--------------------|----|-------|----|-------|----|-------|-----|-------|-----|-------|-----|-------|-----|------|
| lbs          | kg      | 55                 | 65 | 75    | 80 | 85    | 90 | 95    | 100 | 105   | 110 | 115   | 120 | 125   | 130 | 135  |
| 120-139      | 54-63   | Plush              |    | Firm  |    |       |    |       |     |       |     |       |     |       |     |      |
| 140-159      | 64-72   |                    |    | Plush |    | Firm  |    |       |     |       |     |       |     |       |     |      |
| 160-179      | 73-81   |                    |    |       |    | Plush |    | Firm  |     |       |     |       |     |       |     |      |
| 180-199      | 82-90   |                    |    |       |    |       |    | Plush |     | Firm  |     |       |     |       |     |      |
| 200-219      | 91-100  |                    |    |       |    |       |    |       |     | Plush |     | Firm  |     |       |     |      |
| 220-239      | 101-108 |                    |    |       |    |       |    |       |     |       |     | Plush |     | Firm  |     |      |
| 240+         | 109+    |                    |    |       |    |       |    |       |     |       |     |       |     | Plush |     | Firm |

### RECOMMENDED STARTING POINTS FOR AIR PRESSURE

| DIAMOND      |         | D1/D2 |    | E1/E2 |    | Air Pressure (psi) |     |     |     |     |     |     |     |     |     |     |  |  |  |
|--------------|---------|-------|----|-------|----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Rider Weight |         | 80    | 85 | 90    | 95 | 100                | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 |  |  |  |
| lbs          | kg      |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 120-139      | 54-63   |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 140-159      | 64-72   |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 160-179      | 73-81   |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 180-199      | 82-90   |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 200-219      | 91-100  |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 220-239      | 101-108 |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |
| 240+         | 109+    |       |    |       |    |                    |     |     |     |     |     |     |     |     |     |     |  |  |  |

| DIAMOND      |         | D3    |       | E3    |       | Air Pressure (psi) |       |       |       |       |      |     |  |  |  |  |
|--------------|---------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|------|-----|--|--|--|--|
| Rider Weight |         | 70    | 75    | 80    | 85    | 90                 | 95    | 100   | 105   | 110   | 115  | 120 |  |  |  |  |
| lbs          | kg      |       |       |       |       |                    |       |       |       |       |      |     |  |  |  |  |
| 120-139      | 54-63   | Plush | Firm  | Plush | Firm  |                    |       |       |       |       |      |     |  |  |  |  |
| 140-159      | 64-72   |       | Plush | Firm  | Plush | Firm               |       |       |       |       |      |     |  |  |  |  |
| 160-179      | 73-81   |       |       | Plush | Firm  | Plush              | Firm  |       |       |       |      |     |  |  |  |  |
| 180-199      | 82-90   |       |       |       | Plush | Firm               | Plush | Firm  |       |       |      |     |  |  |  |  |
| 200-219      | 91-100  |       |       |       |       | Plush              | Firm  | Plush | Firm  |       |      |     |  |  |  |  |
| 220-239      | 101-108 |       |       |       |       |                    | Plush | Firm  | Plush | Firm  |      |     |  |  |  |  |
| 240+         | 109+    |       |       |       |       |                    |       | Plush | Firm  | Plush | Firm |     |  |  |  |  |

| ONYX SC D1   |         | D1/D2 |      | E1/E2 |       | Air Pressure (psi) |       |       |       |       |       |      |     |  |  |  |
|--------------|---------|-------|------|-------|-------|--------------------|-------|-------|-------|-------|-------|------|-----|--|--|--|
| Rider Weight |         | 60    | 65   | 70    | 75    | 80                 | 85    | 90    | 95    | 100   | 110   | 120  | 130 |  |  |  |
| lbs          | kg      |       |      |       |       |                    |       |       |       |       |       |      |     |  |  |  |
| 120-139      | 54-63   | Plush | Firm | Plush | Firm  |                    |       |       |       |       |       |      |     |  |  |  |
| 140-159      | 64-72   |       |      | Plush | Firm  | Plush              | Firm  |       |       |       |       |      |     |  |  |  |
| 160-179      | 73-81   |       |      |       | Plush | Firm               | Plush | Firm  |       |       |       |      |     |  |  |  |
| 180-199      | 82-90   |       |      |       |       | Plush              | Firm  | Plush | Firm  |       |       |      |     |  |  |  |
| 200-219      | 91-100  |       |      |       |       |                    | Plush | Firm  | Plush | Firm  |       |      |     |  |  |  |
| 220-239      | 101-108 |       |      |       |       |                    |       | Plush | Firm  | Plush | Firm  |      |     |  |  |  |
| 240+         | 109+    |       |      |       |       |                    |       |       | Plush | Firm  | Plush | Firm |     |  |  |  |

| ONYX DC      |         | Air Pressure (psi) |       |       |       |       |       |       |      |  |  |
|--------------|---------|--------------------|-------|-------|-------|-------|-------|-------|------|--|--|
| Rider Weight |         | 65                 | 70    | 75    | 80    | 85    | 90    | 95    | 100  |  |  |
| lbs          | kg      |                    |       |       |       |       |       |       |      |  |  |
| 120-139      | 54-63   | Plush              | Firm  |       |       |       |       |       |      |  |  |
| 140-159      | 64-72   |                    | Plush | Firm  |       |       |       |       |      |  |  |
| 160-179      | 73-81   |                    |       | Plush | Firm  |       |       |       |      |  |  |
| 180-199      | 82-90   |                    |       |       | Plush | Firm  |       |       |      |  |  |
| 200-219      | 91-100  |                    |       |       |       | Plush | Firm  |       |      |  |  |
| 220-239      | 101-108 |                    |       |       |       |       | Plush | Firm  |      |  |  |
| 240+         | 109+    |                    |       |       |       |       |       | Plush | Firm |  |  |



## STEP 3: SAG SETTING

SAG is the amount your fork compresses under your body weight (don't forget to include your riding gear), also referred to as Rider Weight. Remember that these are only starting points and adjustments will vary based on rider ability, trail conditions and personal preference.

After you are done setting up your suspension fork according to the recommended base settings, check your SAG to make sure you are within the recommended SAG settings.

The recommended SAG is 15% - 30%. Setting proper SAG is the only way to find the right air pressure for your fork. Refer to the chart below to find the proper SAG.



| FORK TRAVEL               | 15% SAG<br>FIRM   | 20% SAG<br>PLUSH  | 30% SAG<br>SUPER PLUSH |
|---------------------------|-------------------|-------------------|------------------------|
| <b>100 mm</b><br>(3.9 in) | 15 mm<br>(0.6 in) | 20 mm<br>(0.8 in) | 30 mm<br>(1.2 in)      |
| <b>110 mm</b><br>(4.3 in) | 17 mm<br>(0.7 in) | 22 mm<br>(0.9 in) | 33 mm<br>(1.3 in)      |
| <b>120 mm</b><br>(4.7 in) | 18 mm<br>(0.8 in) | 24 mm<br>(0.9 in) | 36 mm<br>(1.4 in)      |
| <b>130 mm</b><br>(5.1 in) | 20 mm<br>(0.8 in) | 26 mm<br>(1.0 in) | 39 mm<br>(1.5 in)      |
| <b>140 mm</b><br>(5.5 in) | 21 mm<br>(0.8 in) | 28 mm<br>(1.1 in) | 42 mm<br>(1.6 in)      |
| <b>150 mm</b><br>(5.9 in) | 23 mm<br>(0.9 in) | 30 mm<br>(1.2 in) | 45 mm<br>(1.8 in)      |
| <b>160 mm</b><br>(6.3 in) | 24 mm<br>(0.9 in) | 32 mm<br>(1.3 in) | 48 mm<br>(1.9 in)      |
| <b>170 mm</b><br>(6.7 in) | 26 mm<br>(1.0 in) | 34 mm<br>(1.3 in) | 51 mm<br>(2.0 in)      |
| <b>180 mm</b><br>(7.1 in) | 27 mm<br>(1.1 in) | 36 mm<br>(1.4 in) | 54 mm<br>(2.1 in)      |
| <b>203 mm</b><br>(8.0 in) | 30 mm<br>(1.2 in) | 41 mm<br>(1.6 in) | 61 mm<br>(2.4 in)      |

## CAN SAG AFFECT PEDALING?

Front fork SAG can have a huge effect on pedaling performance. You will mainly notice this when climbing or sprinting out of the saddle (standing up). Riders that make pedaling a priority can run less SAG (around 15%) to increase the stability of the bike. If you have a fork with a quick range low speed adjuster (ex. Diamond Series, Sapphire) you can use that to reduce the pedal bob from the front end by using the firmest setting.

## HOW DOES SAG EFFECT THE HANDLING OF MY BIKE?

It is very beneficial to test different SAG settings for various riding conditions. Changing the amount of SAG on your fork will change the geometry of your bike. Riders that make high speed stability a priority can run less SAG. This will keep the front end of the bike high under braking and rough sections but comfort and cornering traction will be compromised.

Riders that want to have a comfortable ride with great cornering traction should run more SAG (around 30%).

## DOES SAG EFFECT MY BODY POSITION ON THE BIKE?

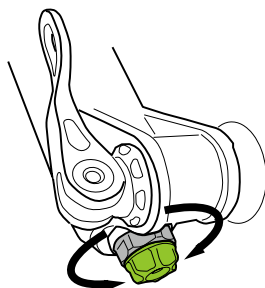
SAG has a huge effect on your body position. Riders that run less SAG will maintain the geometry of their bike during braking, cornering, climbing, and high speed/rough sections. This can be a difficult setting to utilize for most riders though. It reduces the comfort level of your ride & cornering traction. Going to a higher amount of SAG on your fork will improve the cornering of your bike drastically. This is because the head angle of your bike becomes steeper under braking. It allows your bike to corner better and also transfers your weight forward to increase traction on the front end. The comfort level of your fork will also increase drastically and reduce any deflection that can happen on square edge obstacles.



## STEP 3: REBOUND ADJUST

Rebound controls the speed at which the fork extends after compression. Rebound damping control is relative to the amount of air pressure used.

Start with your rebound closed (clockwise) then adjust out to make it faster. This is the best and most consistent way to do it.



### SAPPHIRE 34 D1

| Air Pressure | Rebound Clicks - Starting From Closed |   |        |   |        |    |        |    |        |    |        |
|--------------|---------------------------------------|---|--------|---|--------|----|--------|----|--------|----|--------|
| PSI          | 2                                     | 4 | 6      | 8 | 10     | 12 | 14     | 16 | 18     | 20 | 22     |
| 125-135+     | Slower                                |   | Faster |   |        |    |        |    |        |    |        |
| 115-125      |                                       |   | Slower |   | Faster |    |        |    |        |    |        |
| 105-115      |                                       |   |        |   | Slower |    | Faster |    |        |    |        |
| 95-105       |                                       |   |        |   |        |    | Slower |    | Faster |    |        |
| 85-95        |                                       |   |        |   |        |    |        |    | Slower |    | Faster |
| 55-85        |                                       |   |        |   |        |    |        |    | Slower |    | Faster |

### DIAMOND D1/E1 - D2/E2

| Air Pressure | Rebound Clicks - Starting From Closed |   |        |   |        |    |        |    |        |    |        |
|--------------|---------------------------------------|---|--------|---|--------|----|--------|----|--------|----|--------|
| PSI          | 2                                     | 4 | 6      | 8 | 10     | 12 | 14     | 16 | 18     | 20 | 22     |
| 140-150+     | Slower                                |   | Faster |   |        |    |        |    |        |    |        |
| 130-140      |                                       |   | Slower |   | Faster |    |        |    |        |    |        |
| 120-130      |                                       |   |        |   | Slower |    | Faster |    |        |    |        |
| 110-120      |                                       |   |        |   |        |    | Slower |    | Faster |    |        |
| 100-110      |                                       |   |        |   |        |    |        |    | Slower |    | Faster |
| 80-100       |                                       |   |        |   |        |    |        |    | Slower |    | Faster |

### DIAMOND D3/E3

| Air Pressure | Rebound Clicks - Starting From Closed |      |      |      |      |      |      |      |      |    |    |
|--------------|---------------------------------------|------|------|------|------|------|------|------|------|----|----|
| PSI          | 2                                     | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20 | 22 |
| 100-110+     |                                       | Slow |      | Fast |      |      |      |      |      |    |    |
| 90-100       |                                       |      | Slow |      | Fast |      |      |      |      |    |    |
| 85-90        |                                       |      |      | Slow |      | Fast |      |      |      |    |    |
| 80-85        |                                       |      |      |      | Slow |      | Fast |      |      |    |    |
| 75-80        |                                       |      |      |      |      | Slow |      | Fast |      |    |    |
| 70-75        |                                       |      |      |      |      |      | Slow |      | Fast |    |    |

### ONYX SC D1/E1 - D2/E2

| Air Pressure | Rebound Clicks - Starting From Closed |   |        |   |        |    |        |    |        |    |        |
|--------------|---------------------------------------|---|--------|---|--------|----|--------|----|--------|----|--------|
| PSI          | 2                                     | 4 | 6      | 8 | 10     | 12 | 14     | 16 | 18     | 20 | 22     |
| 95+          | Slower                                |   | Faster |   |        |    |        |    |        |    |        |
| 85-90        |                                       |   | Slower |   | Faster |    |        |    |        |    |        |
| 80-85        |                                       |   |        |   | Slower |    | Faster |    |        |    |        |
| 75-80        |                                       |   |        |   |        |    | Slower |    | Faster |    |        |
| 70-75        |                                       |   |        |   |        |    |        |    | Slower |    | Faster |
| 60-70        |                                       |   |        |   |        |    |        |    | Slower |    | Faster |

### ONYX DC

| Air Pressure | Rebound Clicks - Starting From Closed |   |        |   |        |    |        |    |        |    |        |
|--------------|---------------------------------------|---|--------|---|--------|----|--------|----|--------|----|--------|
| PSI          | 2                                     | 4 | 6      | 8 | 10     | 12 | 14     | 16 | 18     | 20 | 22     |
| 100+         | Slower                                |   | Faster |   |        |    |        |    |        |    |        |
| 85-90        |                                       |   | Slower |   | Faster |    |        |    |        |    |        |
| 80-85        |                                       |   |        |   | Slower |    | Faster |    |        |    |        |
| 75-80        |                                       |   |        |   |        |    | Slower |    | Faster |    |        |
| 70-75        |                                       |   |        |   |        |    |        |    | Slower |    | Faster |
| 60-70        |                                       |   |        |   |        |    |        |    | Slower |    | Faster |

## WHAT IS REBOUND?

Rebound controls the return speed after the fork is compressed. Rebound damping control is relative to the amount of air pressure used. Higher air pressure requires more (slower) rebound damping and a lower air pressure will require less (faster) rebound damping so please adjust accordingly.

## HOW DOES REBOUND EFFECT THE HANDLING OF MY BIKE?

Rebound can drastically change the way your suspension functions as well as your overall control of the bike. It is extremely important to have a balanced rebound setting that is not too fast or too slow. This will depend on the air pressure you run. Higher pressures need more rebound, lower pressures need less rebound. If you notice the front end is dead feeling, rough on high speed chatter, and not tracking in corners, your rebound setting is most likely too slow. If rebound is too fast, your wheel will fall into more holes, instead of skipping over the top of them. Handling will feel twitchy and hard to control, it will be easier to be thrown out of control on jumps and landings.

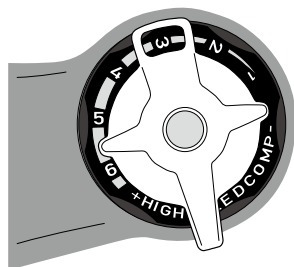
## IS MY REBOUND TOO FAST OR TOO SLOW?

If rebound is too fast, your wheel will fall into more holes, instead of skipping over the top of them. Handling will feel twitchy and hard to control, it will be easier to be thrown out of control on jumps and landings. If rebound is set too slow it will pack on successive hits because the fork cannot extend fast enough keeping you in the mid stroke. This will result in the wheel going deeper into the travel on every hit and riding towards the end stroke.



## STEP 4: HIGH SPEED COMPRESSION

The high speed compression adjuster is the black dial located under the green colored low speed compression adjuster. HSC controls the damping force under faster suspension movements. Use this to control the amount of support on bigger impacts such as g-outs, landings, drops, etc..



Start with your HSC all the way open (counter-clockwise). Adjust by full rotations, NOT by clicks. When you make an adjustment to your HSC, do 1-2 full rotations at a time.

**Clockwise Rotations = Firmer**  
**Counter-Clockwise Rotations = Softer**

### RECOMMENDED STARTING POINTS FOR HSC

#### SAPPHIRE 34 D1

| Air Pressure<br>PSI | Rotations (not clicks) clockwise |   |   |   |   |   |
|---------------------|----------------------------------|---|---|---|---|---|
|                     | 0                                | 1 | 2 | 3 | 4 | 5 |
| 55-70               | █                                | █ |   |   |   |   |
| 70-85               |                                  |   |   |   |   |   |
| 85-100              |                                  |   | █ | █ |   |   |
| 100-115             |                                  |   | █ | █ |   |   |
| 115-130             |                                  |   |   |   | █ | █ |
| 130+                |                                  |   |   |   | █ | █ |

#### DIAMOND D1

| Air Pressure<br>PSI | Rotations (not clicks) clockwise |   |   |   |   |   |
|---------------------|----------------------------------|---|---|---|---|---|
|                     | 0                                | 1 | 2 | 3 | 4 | 5 |
| 80-95               | █                                | █ |   |   |   |   |
| 95-110              |                                  |   |   |   |   |   |
| 110-125             |                                  |   | █ | █ |   |   |
| 125-140             |                                  |   | █ | █ |   |   |
| 140-155             |                                  |   |   |   | █ | █ |
| 155+                |                                  |   |   |   | █ | █ |

#### ONYX SC D1

| Air Pressure<br>PSI | Rotations (not clicks) clockwise |   |   |   |   |   |
|---------------------|----------------------------------|---|---|---|---|---|
|                     | 0                                | 1 | 2 | 3 | 4 | 5 |
| 60-65               | █                                | █ |   |   |   |   |
| 65-70               | █                                | █ |   |   |   |   |
| 75-80               |                                  |   | █ | █ |   |   |
| 85-90               |                                  |   | █ | █ |   |   |
| 90-100              |                                  |   |   |   | █ | █ |
| 100+                |                                  |   |   |   | █ | █ |

#### ONYX DC D1

| Air Pressure<br>PSI | Rotations (not clicks) clockwise |   |   |   |   |   |
|---------------------|----------------------------------|---|---|---|---|---|
|                     | 0                                | 1 | 2 | 3 | 4 | 5 |
| 60-70               | █                                | █ |   |   |   |   |
| 70-80               | █                                | █ |   |   |   |   |
| 80-90               |                                  |   | █ | █ |   |   |
| 90-95               |                                  |   | █ | █ |   |   |
| 95-100              |                                  |   |   |   | █ | █ |
| 100-110+            |                                  |   |   |   | █ | █ |

### WHAT IS HSC?

High Speed Compression controls the damping force under faster suspension movements regardless of the rider's speed. HSC comes into effect on fast, rough, technical trails, g-outs and hard landings. If you find yourself easily going through the travel then 1st make sure your sag is correct then adjust your HSC accordingly.

### WHY DO I NEED HSC?

High Speed Compression damping affects the suspension when the shaft is moving up and down at high speeds. High Speed Compression helps with large impacts or sharp/sudden impacts. High Speed Compression can be used to reduce bottom.

### WHAT HAPPENS IF THERE IS TOO MUCH HSC?

Too much High Speed Compression may result in the fork not being able to reach full travel, and or spiking on large impacts.

### WHAT HAPPENS IF THERE ISN'T ENOUGH HSC?

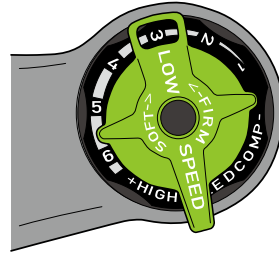
If you don't have enough High Speed Compression, The fork will blow through it's travel too easily on jump faces, and will bottom out to easily on large impacts.



## STEP 5: LOW SPEED COMPRESSION

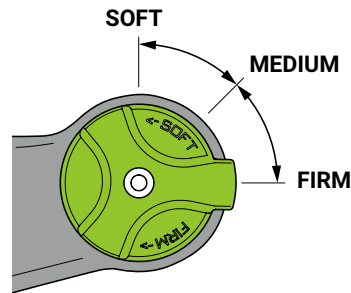
### D1 / E1 Low Speed Compression

Our suspension forks come with a "Quick Range" low speed compression adjuster that has 6 clicks of adjustment. Setting "1" is wide open and recommended when descending or riding on technical terrain. When you are climbing, you can switch the LSC to "6" to give you the firmest setting and best pedaling platform. Don't forget to change this back when you start to descend!



### D2 / E2 Low Speed Compression

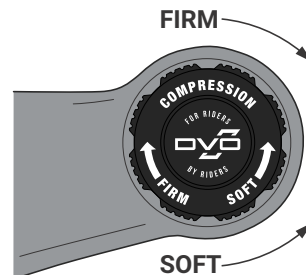
The BERYL "D2 damper" comes with a "Quick Range" low speed compression adjuster that has 4 clicks of adjustment. Setting "SOFT" is wide open and recommended when descending or riding on technical terrain. When you are climbing, you can switch to "FIRM" to give you the firmest setting and best pedaling platform. Don't forget to change this back when you start to descend!



### D3 / E3 Low Speed Compression

The D3/E3 Model forks come with a full range low speed compression. Use this feature to add more support for body movements on the bike. This will help the front-end stand up taller and reduce the potential for "diving" under braking.

Start from full open, (counter-clockwise) then make full turn adjustments at a time.



## WHAT IS LSC?

Low speed compressions controls the slower vertical movements such as climbing or slower paced trails and bumpy whoop sections. A good example of low speed is rolling slowly over a large rock and riding to its downside, this is where the suspension will fully compress but at a slower rate and low speed compression circuit comes into play. LSC refers to the shaft speed of the suspension and not the actual riding speed. LS compression is best controlled through a low speed oil circuit and or shim stack.

## WHY DO I NEED LSC?

Low speed compression affects the suspensions performance when the shaft is moving up and down at slow speeds. Low Speed affects small bump performance and controls dive under braking.

## WHAT HAPPENS IF THERE IS TOO MUCH LSC?

Too much Low Speed Compression will result in harshness over small bumps and traction will be reduced. Turning performance may also suffer because the suspension will ride too high in its travel. Ride may become harsh.

## WHAT HAPPENS IF THERE ISN'T ENOUGH LSC?

Not enough Low Speed Compression will result in the front end diving to quickly under braking. The suspension will have a mushy feeling and may bottom out too easily.





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This contents is subject change without notice.  
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