

REAR SHOCK

OWNER'S MANUAL

WARNING !

This instruction sheet contains important information about the correct installation, service and maintenance of your rear shock. Nevertheless please be informed that special knowledge and tools are essential to install, service and maintain SR SUNTOUR shocks. Common mechanical knowledge may not be sufficient to repair, service or maintain a rear shock. Therefore we strongly recommend getting your rear shock installed, serviced and/or maintained by a trained and qualified bike mechanic. Improper installation, service or maintenance can result in failure of the product, accident, injury or even death.

Overview.....2-4

Important safety information..... 5

Before every ride..... 6

Rear shock installation..... 7

Setting SAG and air pressure..... 8

Setting SAG..... 9

Air pressure adjust..... 10

Rebound damping adjust.....11

3-step low-speed compression damping adjust.....12

2-step low-speed compression damping adjust.....13

Infinite low-speed compression damping adjust.....14

Lock-out operation.....15

Remote lock-out operation16

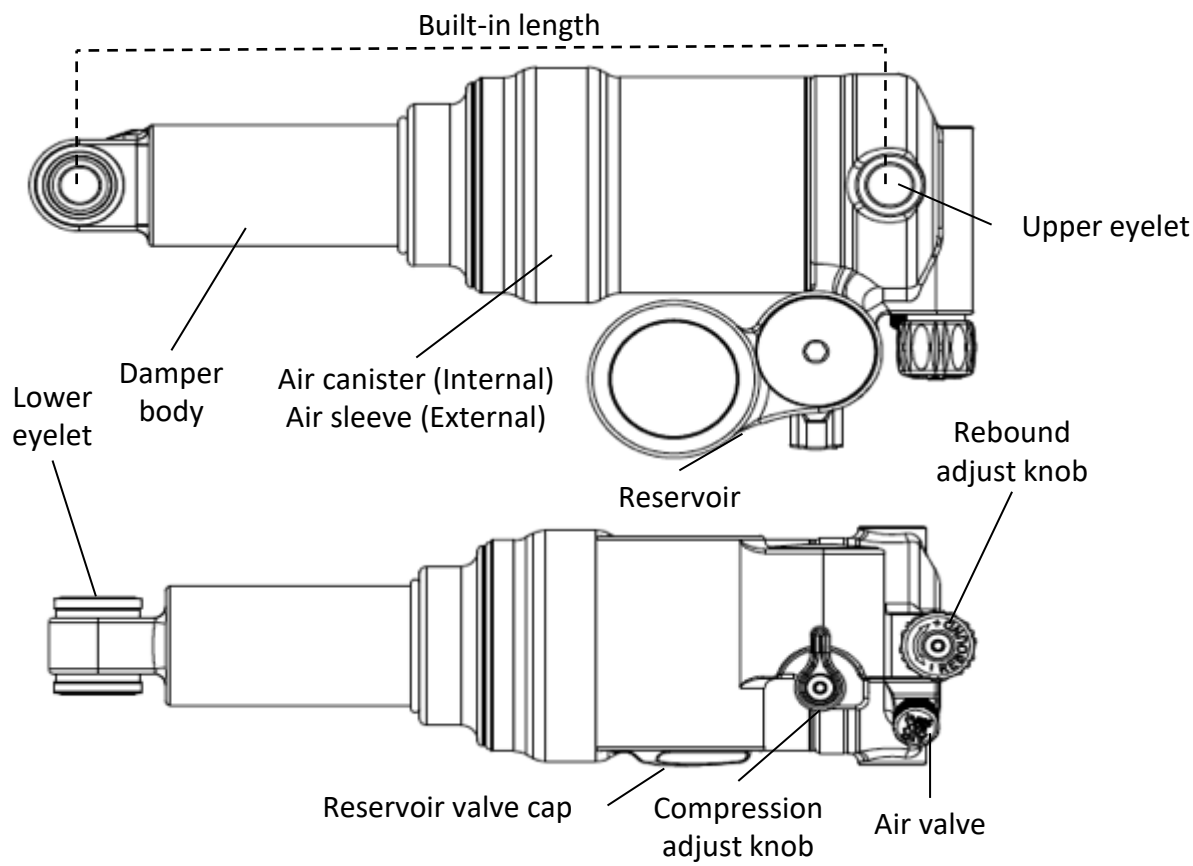
Maintenance.....17



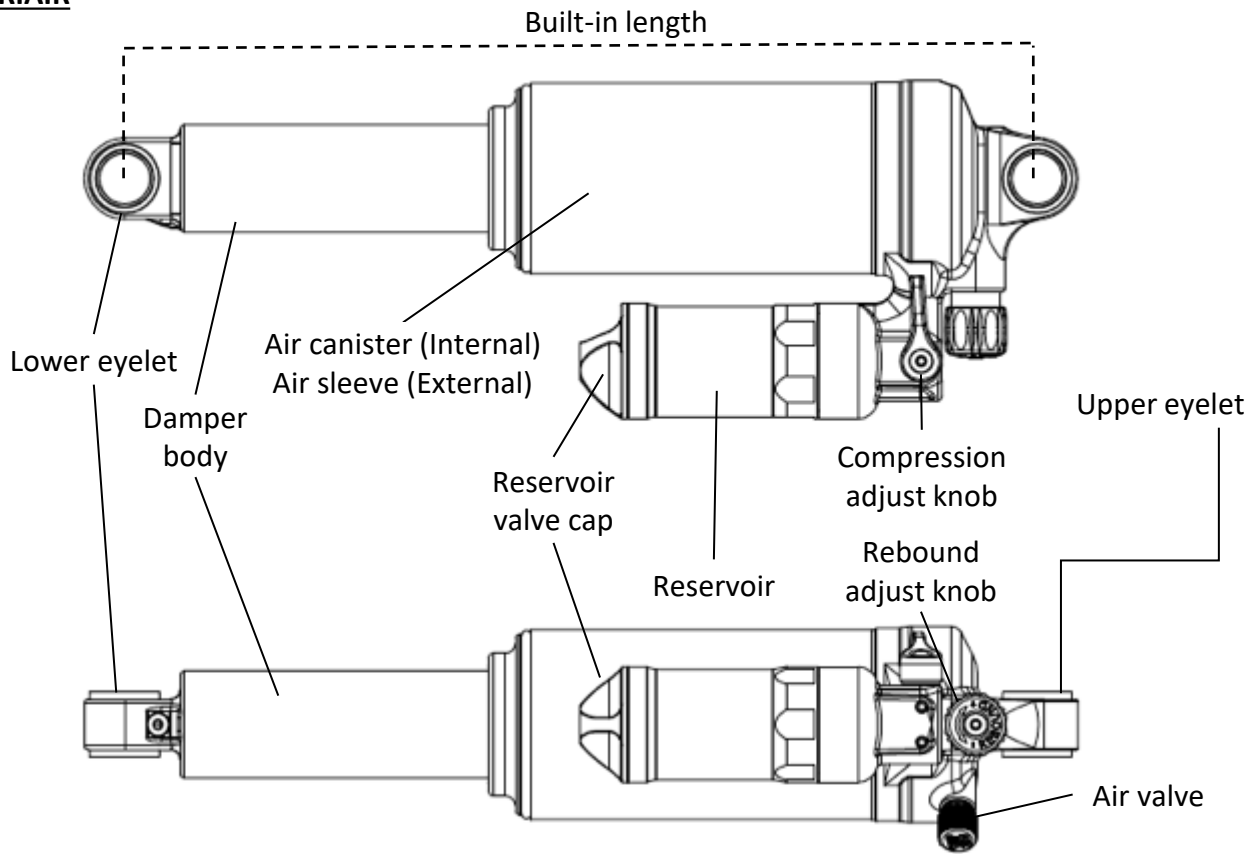
We have language options for Chinese, Dutch, English, French, German, Italian, Japanese and Spanish on our website. Please scan the QR code here to navigate to:
<https://www.srsuntour.com/en/home> > Service > Owners manuals > Rear Shock Manual>MY26

OVERVIEW

TRIAIR2

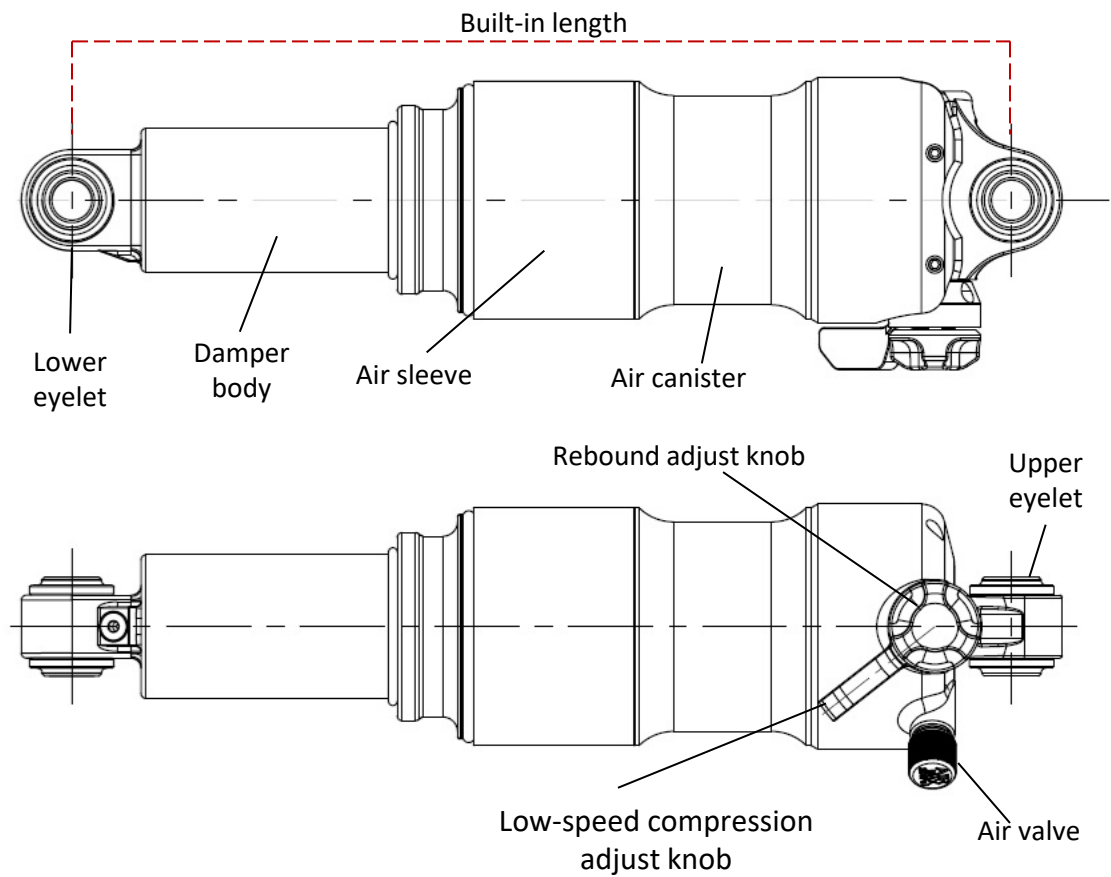


TRIAIR



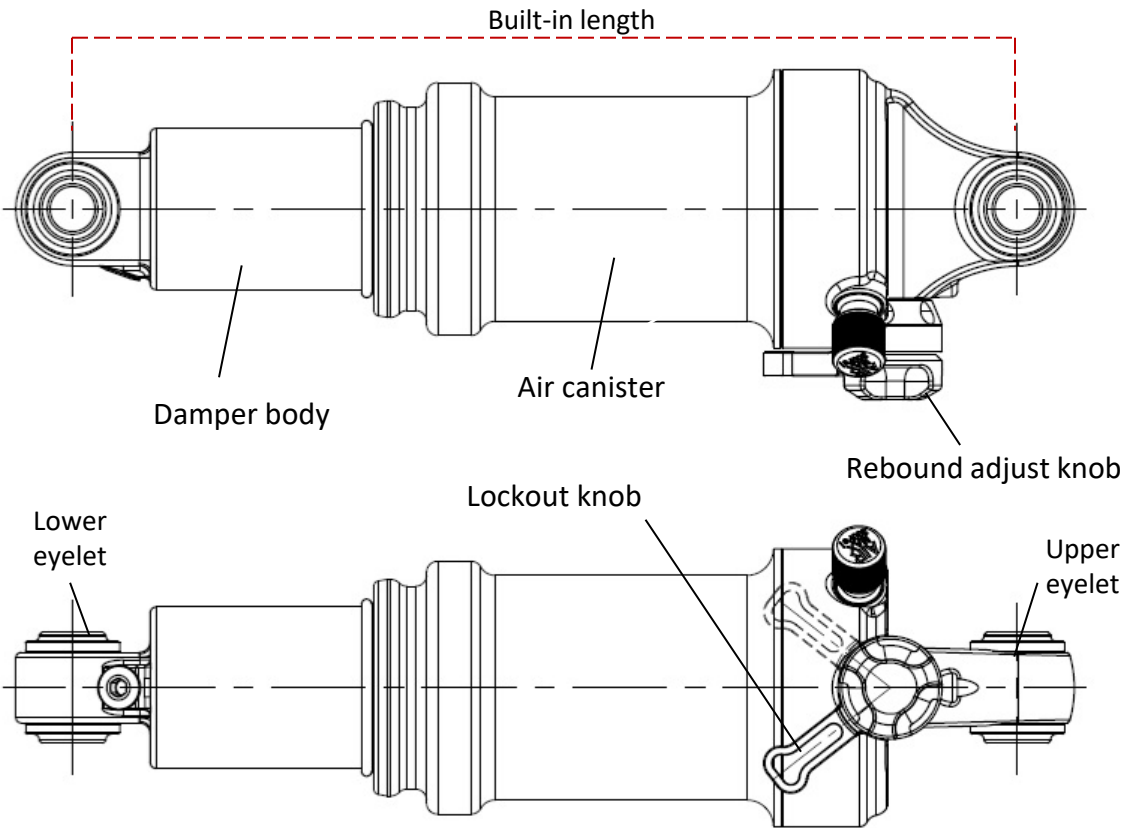
EDGE EVO

* Shown in LVN config.



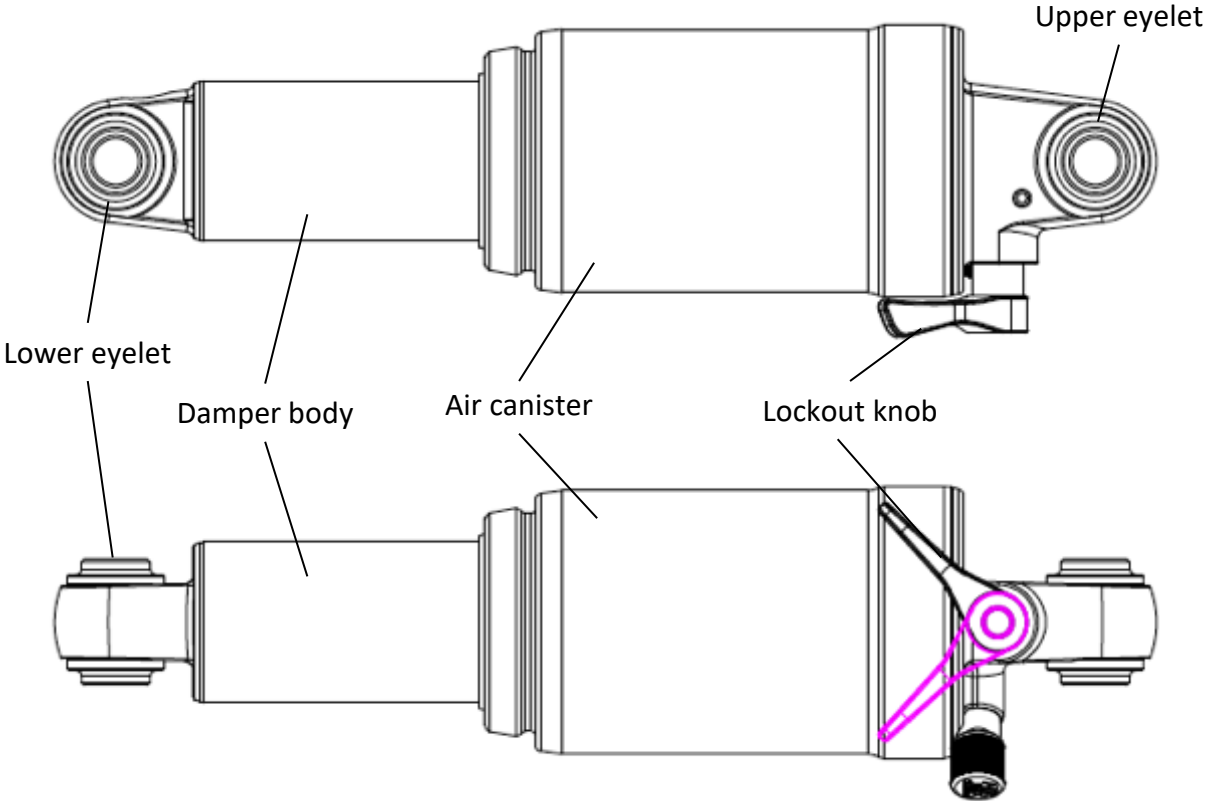
EDGE X

* Shown in SV config.



OVERVIEW

RAIDON



IMPORTANT SAFETY INFORMATION



WARNING !

Failure to follow all warnings and safety instructions can cause your product to malfunction, resulting in an accident, severe personal injuries or even death to the rider.

- Read this manual thoroughly before using your rear shock.
- Our rear shocks contain fluids and gases under extreme pressure, so warnings in this manual must be followed in order to avoid the possibility of injuries or possible death. Never try to open any SR SUNTOUR rear shock ! Opening any SR SUNTOUR rear shock implies the risk of getting seriously injured.
- Use only genuine SR SUNTOUR parts. The use of third-party supplier spare parts voids the warranty of your rear shock and might cause failure to it. This could result into an accident, injury or even death.
- SR SUNTOUR rear shocks are designed for the usage by a single rider.



WARNING !

These instructions contain important information about the correct installation, service and maintenance of your rear shock. Common mechanical knowledge may not be sufficient. Your rear shock should only be installed, serviced and/or maintained by a trained and qualified bicycle mechanic with specialized tools.

- 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.
- Select the correct rear shock according to your frame's built in height and your personal riding style. Installing a rear shock which does not match the geometry of your frame could result into a failure of the rear shock itself and will void the shock's warranty.
- Know the limits of your skill and experience, and never ride beyond them.
- Read, understand and follow all owner's manuals provided with your bike and all of its components.



WARNING !

SR SUNTOUR recommends having the shock installed, maintained and/or serviced by a trained and qualified bike mechanic.

BEFORE EVERY RIDE



WARNING !

Avoid serious personal injury or even death. Do not ride the bicycle if any of the following criteria is not met ! Correct any condition before you ride.

- Inspect your bicycle and suspension system including the handlebars, pedals, crank arms, seat post, saddle, etc. for any cracks, dents, bent or tarnished parts. Also search for any oil leaking out of your shocks. Be sure to check hidden areas on the underside of your bike. If any condition exists, consult a trained and qualified bicycle mechanic to determine the cause and make any necessary correction.
- Compress your rear shock with your body weight. If it feels too soft, relating to the proper pressure to achieve an accurate SAG, inflate it until you have reached the required value. Please also refer to the chapter "SETTING SAG".
- Make sure your brakes are properly installed/adjusted and work correctly.
- If you are using a quick release system to fasten your wheel set, make sure that all levers and nuts are properly tightened. In case you are using a through axle system, make sure that all fixing bolts are tightened with the appropriate torque values. Strictly follow the instructions provided by the manufacturer of the quick release or through axle system.
- Check the cable length and routing of your components. Make sure they do not interfere with your steering actions.
- If you are using reflectors for on-road riding, make sure they are clean and properly installed.
- Bounce your bike slightly on the ground while looking and listening for anything which might be loose.

REAR SHOCK INSTALLATION

To replace your old rear shock and upgrade your bike with a SR SUNTOUR rear shock you have to follow the hereafter mentioned steps. Please note that we strongly recommend your new SR SUNTOUR rear shock to be installed by a qualified and trained bike mechanic.

1. Make sure that the “eye-to-eye length”, stroke and mounting hardware are the same as of the originally installed rear shock. The “eye-to-eye length” is the distance from the center of the upper fixing bolt to the center of the lower fixing bolt. Please also refer to the drawing shown on the page 2-3.
2. Remove the old shock off your bike. Clean the inside surface of the frame and swing arm, removing any dirt and make sure that all surfaces are clean.

WARNING !



If a longer than the original shock length is installed, the geometry of your bike will change. This can lead to steering problems and a higher bottom bracket which disables you to place your feet on the ground. If you are going to install a shock which is shorter than the originally installed one, it will have the same, but inverted negative effects. All this can result into a loss of control and serious injuries or even death.

1. Make sure that the inner and the outer diameter, as well as the width of the aluminum bushings are correct to fix the rear shock properly and without any play to the frame and swing arm.
2. Check the movement of your new SR SUNTOUR rear shock by releasing all air and moving the swing arm through its complete stroke. Make sure that there is sufficient clearance between the rear shock and all other components. Also keep in mind to check the clearance between your rear shock and a lowered seat post. Make sure the shock does not hit against the seat post in any position.
3. Tighten the screws in accordance with the bicycle's or frame's manufacturers specifications.



WARNING !

Insufficient clearance between the shock, seat post, swingarm and frame can result into a loss of control of your bike, serious injuries or even death.

SETTING SAG AND AIR PRESSURE

To achieve the best performance from your SR SUNTOUR air spring rear shocks, adjust the air pressure to attain your proper sag setting. Sag is the amount your shock compresses under your weight and riding gear and luggage. Sag range should be set of total shock travel. Make sure to set sag with the compression knob in the OPEN position.

- Below chart is the suggested SAG range and the original air pressure chart, set for the SR SUNTOUR air spring rear shock from the factory. Remember that these are the starting points. Adjustments will vary based on rider ability, trail conditions, frame design, and personal preference. After setting up your rear shock, check your sag to make sure that you are within the recommended SAG settings.
- The SAG is the compression which is caused by the rider’s weight including equipment (such as backpack), seating position and the frame’s geometry and not as a result of riding. Every rider has a different weight and seating position. Therefore, the rear shock will sag more or less. To assure a proper function of rear shock and not to interfere its performance, setting a proper SAG is the important way to find the correct air pressure for your air spring rear shock.

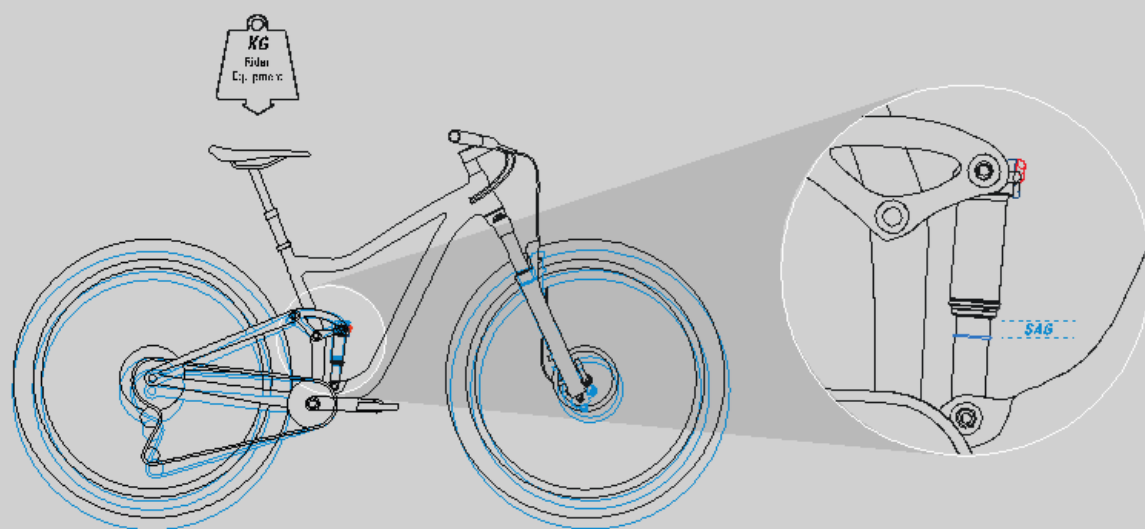
Setting tip for air spring rear shocks

- Step 1: Pump up to the suggested air pressure and compress the rear shock at least 50% of full travel several times in order to equalize the air pressure between the positive and negative air chamber.
 - Step 2: Sit on the bike with equipment (such as backpack) and ask somebody to hold the bike, stand on the pedals, and compress the rear shock several times. Then sit on your bike in your normal riding position.
 - Step 3: Slide the SAG indicator O-ring down to the top of the dust seal.
 - Step 4: Gently step off the bike without compressing the rear shock furthermore.
 - Step 5: Check the O-ring position to see if the SAG setting is properly done.
 - Step 6: In case the SAG setting is not properly done, air pressure must be adjusted.
 - In order to increase the SAG, decrease the air pressure.
 - In order to decrease the SAG, increase the air pressure.
- ✓ Repeat the above procedure until you can find the correct SAG setting.
 - ✓ Use SR SUNTOUR genuine SAG checking tool as shown in the next page.
 - ✓ The recommended SAG range is 20% - 35%, depending on the stroke. Refer to the chart below to find the proper SAG.

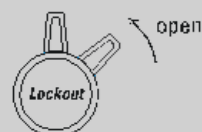
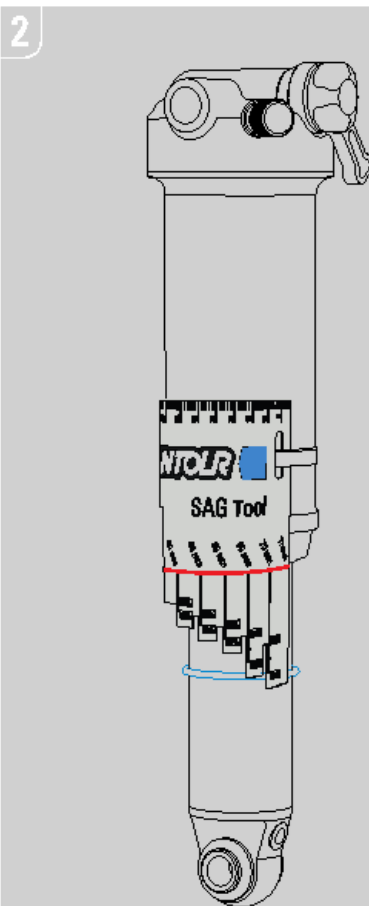
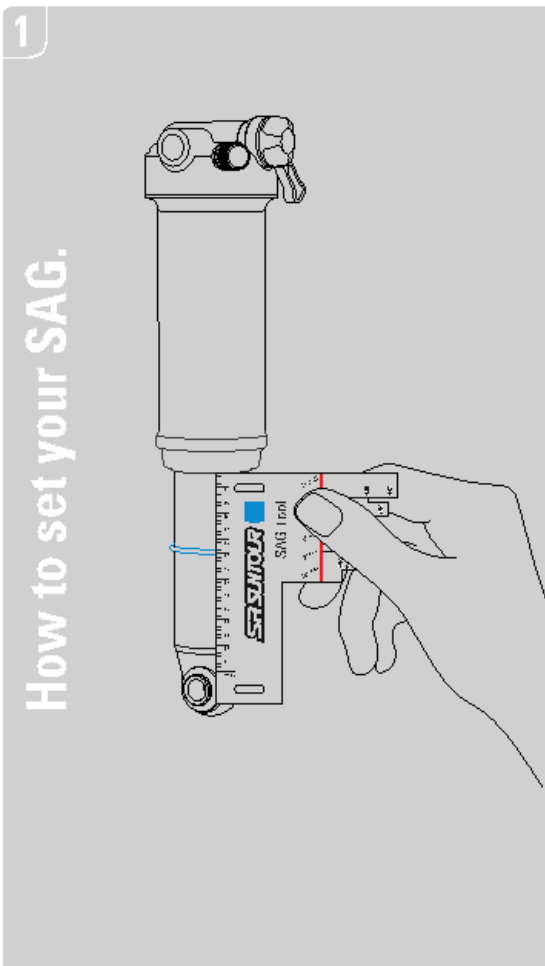


Shock travel	SAG (%)	SAG (mm)
75mm	25 - 35%	18.75 – 26.25mm
70mm		17.50 - 24.50mm
65mm		16.25 - 22.75mm
60mm		15.00 - 21.00mm
55mm	25 - 30%	13.75 – 16.50mm
50mm	20 - 25%	10.00 - 12.50mm
45mm		9.00 - 11.25mm
40mm		8.00 - 10.00mm
35mm		7.00 – 8.75mm
30mm		6.00 - 7.50mm

What is SAG?



How to set your SAG.



0 km/h



AIR PRESSURE ADJUST

Below is the original air pressure setting when the SR SUNTOUR rear shock is shipped out from the factory. Remember that these are the starting points and adjustments will vary based on rider ability, trail conditions, frame design, and personal preference. After setting up your rear shock, check your sag to make sure that you are within the recommended sag settings.

	Suggested air pressure (psi)						
	Triair2		Triair		EDGE-EVO	EDGEX	RAIDON
	Main body	Reservoir (IFP)	Main body	Reservoir (IFP)	Main body	Main body	Main body
Air pressure (factory setting)	180	180	180	190	110	110	110
Max. pressure	300	200	300	240	300	300	300
Min. pressure		170		190			

Note:

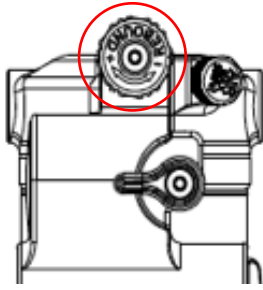
- It's important to keep in mind that air pressures will vary depending on the leverage rate of your frame. This is just a starting point until you check your SAG on the following page.
- Above numbers are for reference only. The correct air pressure might be different according to the frame design, so must be adjusted by individual rider while checking the SAG.
- Riding Triair and Triair2 shocks with Reservoir (IFP) below the minimum recommended pressure will cause improper shock function. This can result into product damage, loss of control and serious injuries or even death



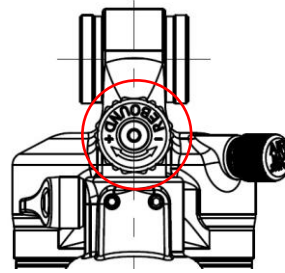
WARNING !
Riding your bike with an improper air pressure can result in a loss of control, serious injury or even death.

Never exceed the maximum air pressure as shown in the above chart. This can lead to the breakage of the rear shock, serious injuries and voids the warranty of your SR SUNTOUR rear shock.

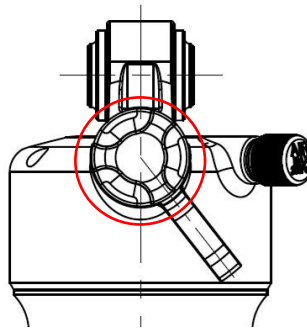
REBOUND DAMPING ADJUST



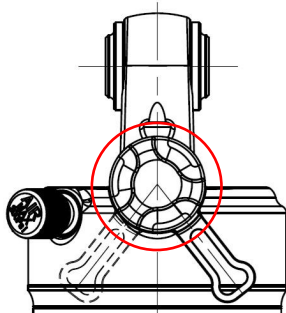
TRIAIR2



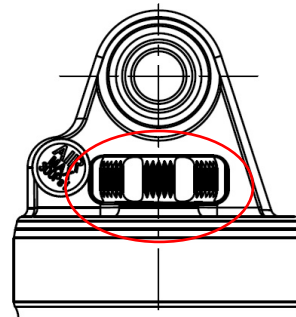
TRIAIR



EDGE EVO



EDGE X



RAIDON

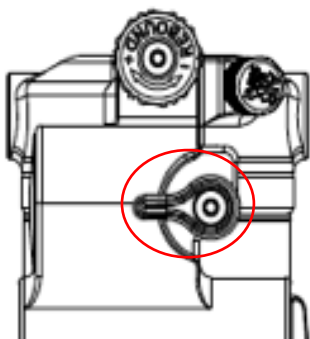
Rebound controls the speed at which the shock extends after compression. Rebound damping control is relative to the main spring rate. Higher pressures require more rebound damping. Lower pressures require less rebound damping, so please adjust accordingly.

- ✓ For slower (more rebound damping) = Turn clockwise
- ✓ For faster (less rebound damping) = Turn counter clockwise

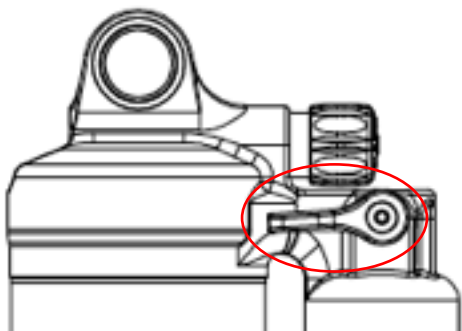
Note:

Rebound settings will vary greatly on bike design, trail conditions and rider preference. It's best to start with the rebound adjuster in the closed setting (full clockwise) and adjust out in two-click increments.

3-STEP LOW-SPEED COMPRESSION DAMPING ADJUST



TRIAIR2



TRIAIR

3C COMPRESSION ADJUST

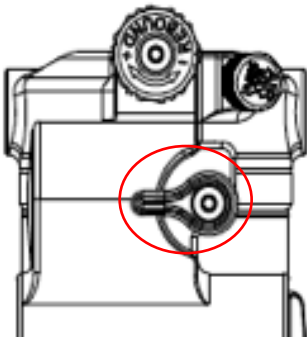
The SR SUNTOUR Triair series shocks offers 3-steps compression settings quickly & easily to allow for the rider to adjust the compression damping for any trail condition.

- 1. Open: it reduces compression damping allowing the oil to easily flow through the circuit, offering maximum sensitivity. Open position is also best for lighter riders or for dry, dusty terrain, where maximum traction is required.
- 2. Middle: it is for traversing. Sections of the trail where you need it to be active but still maintain a good pedaling platform.
- 3. Close: it is great for climbing, in order to reduce undesirable suspension bob. The heavy/closed setting is NOT a lock-out, but does offer significant resistance to weight & pedal induced suspension movement. Do not use this mode in the descents.

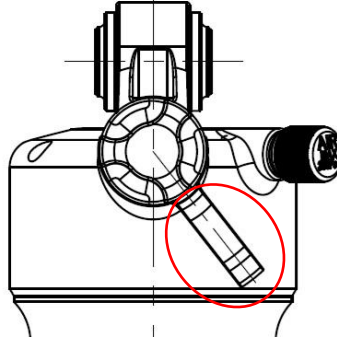
Compression setting chart

Trail style	Compression setting		
	OPEN	MIDDLE	CLOSE
Rough DH	Plush		
Smooth DH	Plush	Supportive	
Technical climb		Supportive	Firm
Smooth climb			Firm
Sandy DH	Plush		
Sandy climb		Supportive	Firm
Muddy DH	Plush		
Muddy climb		Supportive	Firm

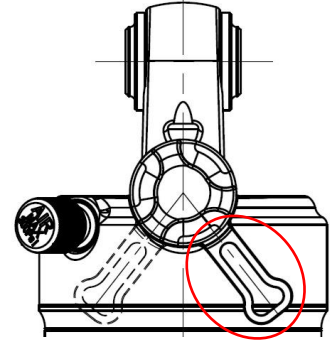
2-STEP LOW-SPEED COMPRESSION DAMPING ADJUST



TRIAIR2



EDGE EVO



EDGE X

2C COMPRESSION ADJUST

The SR SUNTOUR Triair2, EDGE EVO and EDGE X shocks offers 2-steps compression settings quickly & easily to allow for the rider to adjust the compression damping for any trail condition.

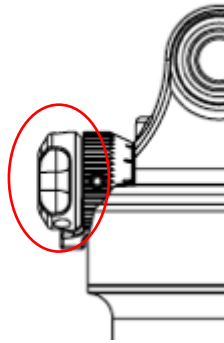
1. Open: it reduces compression damping allowing the oil to easily flow through the circuit, offering maximum sensitivity. Open position is also best for lighter riders or for dry, dusty terrain, where maximum traction is required.
2. Close: it is great for climbing, in order to reduce undesirable suspension bob. The heavy/closed setting is NOT a lock-out, but does offer significant resistance to weight & pedal induced suspension movement. Do not use this mode in the descents.



WARNING !

Nevertheless, you should never set your rear shock to the “Close mode” while riding in rough terrain, or when the suspension is needed heavily. This implies the risk that the shock will get damaged when it’s being compressed under high load. This could also result into an accident, injuries or even death of the rider.

INFINITE LOW-SPEED COMPRESSION DAMPING ADJUST

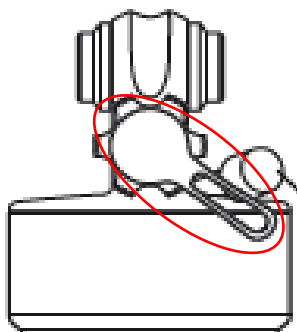


EDGE-RC

The compression damping adjust function of your SR SUNTOUR rear shocks allows you to tune your shock according to your personal preferences and the terrain you are riding on. This function controls the speed of your rear shock while being compressed.

- When riding on terrain with a lot of small and fast bumps:
Choose a faster set up in order to bring the maximum possible wheel traction and an sensitive bump compliance. In this mode, your rear shock will react pretty sensitive/fast to every bump. Do not choose this setting on a terrain with big bumps and square edge hits because the risk of bottom out of your rear shock is going to be higher.
- When riding on terrain with big bumps and square edge hits:
Choose a slower set up. In this mode your rear shock will move slower while being compressed. Therefore it will reduce bottom outs and provides maximum bump absorption. Using this mode on a terrain with small and fast bumps will bring bad traction to your bike. Additionally your rear shock will not use it's full travel if being set to the slow/firm on fast terrain.

LOCK-OUT OPERATION



EDGE-plus

The Lockout function prevents the shock from compressing until significant impact or downward force occurs. The shock will compress when the force exceeds the damper blow-off circuit resistance. Use the Lockout function for maximum pedaling efficiency on smooth or rolling terrain. Operate the lockout knob to use the lock and unlock function.

Note:

LOR: 100% lock-out

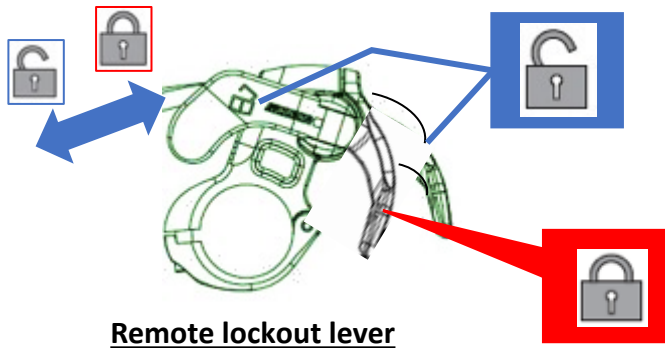
LOR8: 80% lock-out



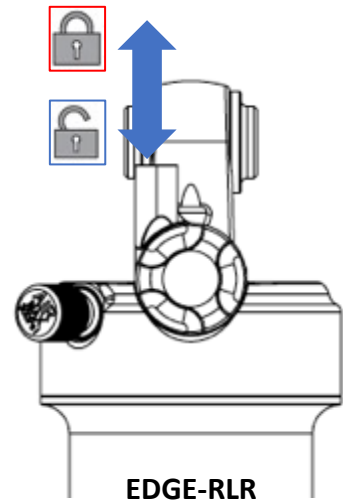
WARNING !

Nevertheless, you should never set your rear shock to the “Lock-Out mode” while riding in rough terrain, or when the suspension is needed heavily. This implies the risk that the shock will get damaged when it’s being compressed under high load. This could also result into an accident, injuries or even death of the rider.

REMOTE LOCK-OUT OPERATION



Remote lockout lever



EDGE-RLR

The operation of remote lockout function can be done from the remote lever on the handlebar, while gripping the grip without taking your hand off from the handlebar. The remote lever is to use the lock and unlock function.

The Lockout function prevents the shock from compressing until significant impact or downward force occurs. The shock will compress when the force exceeds the damper blow-off circuit resistance. Use the Lockout function for maximum pedaling efficiency on smooth or rolling terrain.

Note:

RLR: 100% lock-out

RLR8: 80% lock-out



WARNING !

Nevertheless, you should never set your rear shock to the “Lock-Out mode” while riding in rough terrain, or when the suspension is needed heavily. This implies the risk that the shock will get damaged when it’s being compressed under high load. This could also result into an accident, injuries or even death of the rider.

MAINTENANCE

SR SUNTOUR rear shocks are designed for simple maintenance. However, as long as moving parts are exposed to moisture and contamination, the performance of your rear shock might be reduced after several rides. Please keep in mind that a rear shock which has not been serviced in accordance with the maintenance instructions might lose its warranty !

- **Never use a pressure washer or any water under pressure to clean your rear shock, as water might enter the shock at the dust seal level. Never use aggressive cleaners. We recommend to use clear water.**
- **To maintain a high performance, safety and a long life of your rear shock, a periodic maintenance is required.**
- **We recommend that your rear shock is being serviced frequently as indicated below if you ride in extreme weather (winter time) and terrain conditions.**
- **In case if you may feel that your rear shock performance has changed or handles differently, immediately call on your local dealer to inspect your rear shock.**
- **After every ride: Clean the damper body and dust seals and maintain with an oily cloth. Check the damper body for dents, scratches or other discoloration or leaking oil.**
- **Before each ride: Check your SAG and adjust the pressure if necessary. Check the damper adjustments (compression/lockout and/or rebound)**
- **Every 50 hours: Maintenance 1 (at the dealer)**
- **Every 100 hours or once a year: Maintenance 2 (at the dealer, ideally before winter time in order to protect all parts from the effects of weather by proper greasing)**

	After each ride	Before each ride	Maintenance 1 (Every 50 hours)	Maintenance 2 (every 100 hours / annually whichever comes first)
Clean shock with light soapy water and wipe dry	○			
Inspect the air can and damper body for wear	○			
Check SAG and damper adjustments		○		
Remove the air can to clean and lubricate the seals with suspension grease			○	
Check the mounting hardware for proper torque settings			○	
Full shock service: new air seals, new oil seals and oil change				○

WARNING !



Please note that your SR SUNTOUR rear shock is filled with oil and nitrogen. This makes it impossible to open the rear shock without having the knowledge and the special tools on how to carry out this task. Please do not try to open the rear shock for service issues, as this implies a very high risk of getting seriously injured. Besides this, you will not be able to reassemble the shock anymore. Opening the shock will void its warranty. If there is any problem with your rear shock, please consult a dealer and get in contact with SR SUNTOUR.

CUSTOMER SUPPORT OFFICES

ASIA, OCEANIA

SR SUNTOUR INC.

#7 Hsing Yeh Road
Fu Hsing Industrial Zone
Chang Hua, Taiwan
Tel: +886-(0)4-769-5115
service@srsuntour.com.tw

SR SUNTOUR INTERNATIONAL CO., LTD.

No. 1500 Honghu Road, Penglang
Kunshan, Development Zone
Jiang Su Province, China ZIP 215333
Tel: +86-512-5517-1127
sr-service@srsuntour.com.cn

SRS INTERNATIONAL TRADING LTD.

Room 501, 5th floor, Building No. 2
Jiaxing Industrial Zone, Shubei Road
Gongming Town, Guangming District
Shenzhen City, China 518106
Tel: +86-755-271-084 83
service@srsuntour.com.cn

SR SUNTOUR JAPAN

NR Bldg. 4F, 3-13-13 Kuramae
Taito-ku, Tokyo, 111-0051
Tel: +81-3-5829-9211

EUROPE

SR SUNTOUR EUROPE GmbH

Riedstrasse 31
83627 Warngau, Germany
Tel: +49-(0)802-150-793-0
service@srsuntour-cycling.com

SR SUNTOUR Düsseldorf GmbH

Fichtenstrasse 115,
40233 Düsseldorf Germany
Tel: +49-(0)211-5426-8950
service@srsuntour-cycling.com

SAV SR SUNTOUR FRANCE

SRS ACADEMY

604 voie Galilee
73800 Sainte Helene du Lac, France
Tel: +33-(0)981-241650
sav@srsuntour-cycling.com
srsacademy@srsuntour-cycling.com

USA

SR SUNTOUR North America Inc.

7509 S. 5th Street Suite 124
Ridgefield, Washington 98642
Tel: +1-360-737-6450
Sales: ssna@srsuntourna.com
Service, warranty: service@srsuntourna.com

SR SUNTOUR Madison

910 Watson Avenue
Madison, Washington 53713 USA
Tel: +1-608-229-6610
service@usulcorp.com

WEB LINKS

For further information please visit www.srsuntour.com. There you will also find:

- ◆ Service request: <https://www.srsuntour.com/en/service/#c1534>
- ◆ Tech videos: <https://www.srsuntour.com/en/support/service-guide/tech-videos/>
- ◆ Download area: <https://www.srsuntour.com/en/service/download-area/>
- ◆ Owner's manuals: <https://www.srsuntour.com/en/service/product-support/owners-manuals/>
- ◆ Warranty: <https://www.srsuntour.com/en/service/#c2717>