

# ROCKSHOX

## DebonAir Upgrade and Travel Change Kit



UPGRADE MANUAL

# SRAM LLC WARRANTY

**THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AGAINST SRAM, LLC. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE, COUNTRY, OR PROVINCE. THIS WARRANTY DOES NOT AFFECT YOUR STATUTORY RIGHTS. TO THE EXTENT THIS WARRANTY IS INCONSISTENT WITH THE LOCAL LAW, THIS WARRANTY SHALL BE DEEMED MODIFIED TO BE CONSISTENT WITH SUCH LAW. FOR A FULL UNDERSTANDING OF YOUR RIGHTS, CONSULT THE LAWS OF YOUR COUNTRY, PROVINCE, OR STATE.**

**THIS WARRANTY APPLIES TO SRAM PRODUCTS MADE UNDER THE SRAM, ROCKSHOX, TRUVATIV, ZIPP, QUARQ, AVID AND TIME BRAND NAMES.**

## EXTENT OF LIMITED WARRANTY

Except as otherwise set forth herein, SRAM warrants its bicycle components to be free from defects in materials or workmanship for a period of two (2) years after original purchase of the product.

SRAM warrants all Zipp MOTO Wheels and Rims to be free from defects in materials or workmanship for the lifetime of the product.

SRAM warrants all non-electronic Zipp branded bicycle components, Model Year 2021 or newer, to be free from defects in materials or workmanship for the lifetime of the product.

## GENERAL PROVISIONS

This warranty only applies to the original owner and is not transferable. Claims under this warranty must be made through the retailer where the bicycle or the SRAM product was purchased or a SRAM authorized service location. Original proof of purchase is required. All SRAM warranty claims will be evaluated by a SRAM authorized service location whereupon acceptance of the claim the product will be repaired, replaced, or refunded at SRAM's discretion. To the extent allowed by local law claims under this warranty must be made during the warranty period and within one (1) year following the date on which any such claim arises.

## NO OTHER WARRANTIES

EXCEPT AS DESCRIBED HEREIN, AND TO THE EXTENT ALLOWED BY LOCAL LAW, SRAM MAKES NO OTHER WARRANTIES, GUARANTIES, OR REPRESENTATIONS OF ANY TYPE (EXPRESS OR IMPLIED), AND ALL WARRANTIES (INCLUDING ANY IMPLIED WARRANTIES OF REASONABLE CARE, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED.

## LIMITATIONS OF LIABILITY

EXCEPT AS DESCRIBED HEREIN, AND TO THE EXTENT PERMITTED BY LAW, IN NO EVENT SHALL SRAM OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. SOME STATES (COUNTRIES AND PROVINCES) DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

## LIMITATIONS OF WARRANTY

This warranty does not apply to products that have been incorrectly installed, adjusted, and/or maintained according to the respective SRAM user manual. The SRAM user manuals can be found online at [sram.com/service](http://sram.com/service).

This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturer's specifications of intended usage, or any other circumstances in which the product has been subjected to forces or loads beyond its design.

This warranty does not apply when the product has been modified, including but not limited to, any attempt to open or repair any electronic and electronic related components, including the motor, controller, battery packs, wiring harnesses, switches, and chargers.

This warranty does not apply when the serial number or production code has been deliberately altered, defaced, or removed.

SRAM components are designed for use only on bicycles that are pedal powered or pedal assisted (e-Bike/Pedelec).

Notwithstanding anything else set forth herein, the battery pack and charger warranty does not include damage from power surges, use of improper charger, improper maintenance, or such other misuse.

This warranty shall not cover damages caused by the use of parts of different manufacturers or parts that are not compatible or suitable for use with SRAM components.

This warranty shall not cover damages resulting from commercial (rental) use.

## WEAR AND TEAR

This warranty does not apply to normal wear and tear. Wear and tear parts are subject to damage as a result of normal use, failure to service according to SRAM recommendations, and/or riding or installation in conditions or applications other than recommended.

## WEAR AND TEAR PARTS INCLUDE:

- |                       |                                   |   |   |
|-----------------------|-----------------------------------|---|---|
| • Aero bar pads       | • Chains                          | • Jockey wheels                               | • Sprockets   |
| • Air sealing o-rings | • Cleats                          | • Rear shock mounting hardware and main seals | • Stripped threads/bolts (aluminum, titanium, magnesium or steel) |
| • Batteries           | • Corrosion                       | • Rubber moving parts                         | • Tires   |
| • Bearings            | • Disc brake rotors               | • Shifter and Brake cables (inner and outer)  | • Tools   |
| • Bottomout pads      | • Dust seals                      | • Shifter grips                               | • Transmission gears  |
| • Brake pads          | • Free hubs, Driver bodies, Pawls | • Spokes                                      | • Upper tubes (stanchions)  |
| • Bushings            | • Foam rings, Glide rings         |   | • Wheel braking surfaces  |
| • Cassettes           | • Handlebar grips                 |   |   |

## ZIPP IMPACT REPLACEMENT POLICY

Zipp branded products, Model Year 2021 or newer, are covered under a lifetime impact-damage replacement policy. This policy can be used to obtain a replacement of a product in the event of non-warranty impact damage occurring while riding your bicycle. See [www.zipp.com/support](http://www.zipp.com/support) for more information.



# **SAFETY FIRST!**

We care about YOU. Please, always wear your safety glasses and protective gloves when servicing RockShox products.

Protect yourself! Wear your safety gear!

# TABLE OF CONTENTS

<b>ROCKSHOX SERVICE.....</b>	<b>5</b>
PART PREPARATION .....	5
SERVICE PROCEDURES.....	5
PARTS, TOOLS, AND SUPPLIES.....	6
<b>MODEL CODE IDENTIFICATION .....</b>	<b>7</b>
<b>LYRIK / PIKE / REVELATION / YARI / ZEB UPGRADE KIT COMPATIBILITY .....</b>	<b>7</b>
SEAL HEAD ONLY UPGRADE .....	7
DEBONAIR UPGRADE, TRAVEL CHANGE, AND BOTTOMLESS TOKENS .....	7
<b>LYRIK / PIKE / REVELATION / YARI / ZEB DEBONAIR UPGRADE KIT INSTALLATION.....</b>	<b>9</b>
LOWER LEG REMOVAL.....	9
AIR SPRING REMOVAL .....	11
BOTTOMLESS TOKENS INSTALLATION (OPTIONAL).....	11
DEBONAIR SEAL HEAD ONLY UPGRADE .....	14
DEBONAIR SPRING INSTALLATION.....	16
LOWER LEG ASSEMBLY .....	19
<b>BOXXER DEBONAIR SPRING UPGRADE KIT COMPATIBILITY .....</b>	<b>22</b>
DEBONAIR UPGRADE, TRAVEL CHANGE, AND BOTTOMLESS TOKENS .....	22
PARTS, TOOLS, AND SUPPLIES .....	22
<b>BOXXER DEBONAIR UPGRADE AND TRAVEL CHANGE KIT INSTALLATION .....</b>	<b>23</b>
FORK REMOVAL .....	23
LOWER LEG REMOVAL.....	27
DEBONAIR SPRING REMOVAL .....	29
BOTTOMLESS TOKENS (OPTIONAL).....	31
DEBONAIR - TRAVEL AND BOTTOMLESS TOKEN TUNING .....	31
BOTTOMLESS TOKENS INSTALLATION (OPTIONAL).....	31
DEBONAIR SPRING INSTALLATION.....	32
LOWER LEG INSTALLATION .....	35
FORK INSTALLATION.....	37

## RockShox Service

We recommend that you have your RockShox suspension serviced by a qualified bicycle mechanic. Servicing RockShox suspension requires knowledge of suspension components, as well as the use of specialized tools and lubricants/fluids. Failure to follow the procedures outlined in this service manual may cause damage to your component and void the warranty.

Visit [www.sram.com/service](http://www.sram.com/service) for the latest RockShox Spare Parts catalog and technical information. For order information, please contact your local SRAM distributor or dealer.

Information contained in this publication is subject to change at any time without prior notice.

Your product's appearance may differ from the pictures contained in this publication.



For recycling and environmental compliance information, please visit [www.sram.com/en/company/about/environmental-policy-and-recycling](http://www.sram.com/en/company/about/environmental-policy-and-recycling).

## Part Preparation

Remove the component from the bicycle before service.

Disconnect and remove the remote cable or hydraulic hose from the fork or rear shock, if applicable. For additional information about RockShox remotes, user manuals are available at [www.sram.com/service](http://www.sram.com/service).

Clean the exterior of the product with mild soap and water to avoid contamination of internal sealing part surfaces.

## Service Procedures

The following procedures should be performed throughout service, unless otherwise specified.

Clean the part with RockShox Suspension Cleaner or isopropyl alcohol and a clean, lint-free shop towel. For hard to reach places (e.g. upper tube, lower leg), wrap a clean, lint-free shop towel around a non-metallic dowel to clean the inside.

Clean the sealing surface on the part and inspect it for scratches.



Replace the o-ring or seal with a new one from the service kit. Use your fingers or a pick to pierce and remove the old seal or o-ring.

Apply grease to the new seal or o-ring.



### NOTICE

Do not scratch any sealing surfaces when servicing the product. Scratches can cause leaks. Consult the spare parts catalog to replace the damaged part.

Use aluminum soft jaws when placing a part in a bench vise.

Tighten the part with a torque wrench to the torque value listed in the red bar. When using a crowfoot socket and torque wrench, install the crowfoot socket at 90 degrees to the torque wrench.



## Parts, Tools, and Supplies

### Parts

- RockShox DebonAir Seal Head Kit
- RockShox DebonAir Upgrade Kit

### Safety and Protection Supplies

- Apron
- Clean, lint-free shop towels
- Nitrile gloves
- Oil pan
- Safety glasses

### Lubricants and Fluids

- Loctite 2760 or 270 High Strength Threadlocker Red
- Maxima PLUSH Dynamic Suspension Lube Light or RockShox 0w-30 Suspension Oil
- Maxima PLUSH Dynamic Suspension Lube Heavy or RockShox 0w-30 Suspension Oil
- RockShox Dynamic Seal Grease or SRAM Butter grease<sup>‡</sup>
- RockShox Suspension Cleaner or Isopropyl alcohol

### RockShox Tools

- RockShox Bleed Syringe
- RockShox Top Cap/Cassette tool (3/8" / 24 mm) or [RockShox x Abbey Bike Tools Top Cap/Cassette Tool](#)

### Bicycle Tools

- Bench vise
- Bicycle work stand
- Cassette tool
- Shock pump

### Common Tools

- Hex bit sockets: 2.5, 5, 8 mm
- Hex wrenches: 2.5, 5, 8 mm
- Internal retaining ring pliers - large
- Long plastic or wooden dowel
- Needle nose pliers
- Open end wrenches: 12 mm
- Rubber or plastic mallet
- Small flat blade screwdriver
- Sockets: 12mm, 24 mm or [RockShox x Abbey Bike Tools 24 mm Socket](#)
- Socket wrench
- Torque wrench

## SAFETY INSTRUCTIONS

Always wear safety glasses and nitrile gloves when working with suspension oil.

Place an oil pan on the floor underneath the area where you will be working on the suspension fork.

<sup>‡</sup>Air Spring Oil / Grease - Pike, Revelation, Lyrik, Yari, ZEB, and BoXXer forks are compatible with RockShox Dynamic Seal Grease and SRAM Butter.

## Model Code Identification

Product model code and specification details can be identified with the serial number on the product. Model codes can be used to identify the product type, series name, model name, and product version associated with the production model year. Product details can be used to identify spare parts, service kit, and lubricant compatibility.

Model Code example: **FS-PIKE-SEL-B3**

**FS** = Product Type - **Front Shock**

**PIKE** = Platform/Series - **Pike**

**SEL** = Model - **Select**

**B3** = Version - (**B** - second generation, **3** - third iteration)

To identify the model code, locate the serial number on the product and enter it into the **Search by Model Name or Serial Number** field at [www.sram.com/service](http://www.sram.com/service).

## Lyrik / Pike / Revelation / Yari / ZEB Upgrade Kit Compatibility

DebonAir C1 upgrade kits are NOT compatible with ZEB (A2), Lyrik (D1), and Pike (C1), including Ultimate Flight Attendant.

The following 35mm and 38 mm fork models are compatible with the new DebonAir C1 upgrade kit:

Lyrik A1-C3 (2016-2022)	Pike 29+ A2-B1 (2017-2020)	Pike B1-B4 (2018-2022)	Revelation A1+ (2018+)	Yari A1+ (2016+)	ZEB A1 (2021-2022)
----------------------------	-------------------------------	---------------------------	---------------------------	---------------------	-----------------------

Refer to the RockShox Spare Parts Catalog available at [www.sram.com/service](http://www.sram.com/service) for the required spare part kits. For part ordering information, please contact your local SRAM distributor or dealer.

## Seal Head Only Upgrade

The following kit can be used to upgrade the seal head on a fork with a 2019+ DebonAir air spring previously installed.

Lyrik / Pike / Revelation / Yari (2019-2020)	00.4020.573.000	AM UPGR DB C1 - 35MM SEAL HEAD
--	-----------------	--------------------------------

## DebonAir Upgrade, Travel Change, and Bottomless Tokens

It is possible to change maximum fork travel by replacing the stock air spring with a shorter or longer DebonAir spring assembly. Refer to the chart below for travel options. If maximum travel is increased or reduced it may also be necessary to add or remove Bottomless Tokens. Use the chart below to help determine the number of Bottomless Tokens that can be used with each maximum fork travel option.

Use ONLY RockShox, SRAM, and Maxima suspension oils/fluids and grease, unless otherwise specified. Use of any other lubricants can damage seals and decrease performance.

Suspension oil/fluid - Maxima PLUSH Dynamic Suspension Lube and RockShox 0w-30 suspension oils/fluids are forward and backward compatible with RockShox Dynamic Seal Grease and SRAM Butter Grease.

Refer to the appropriate RockShox suspension fork service manual, available at [www.sram.com/service](http://www.sram.com/service), for service specifications and procedures.

Fork	Model Year	Generation	Wheel Size (in)	Desired Max Travel (mm)	Upgrade Kit	Max Bottomless Tokens	Lower Leg Oil			
							Damper Side		Spring Side	
							Oil	Volume (mL)	Oil	Volume (mL)
LYRIK	2016-2022	A1-C3	27.5	180	00.4020.572.000 ‡	4	PLUSH Light*	10	PLUSH Light*	10
				170	00.4020.572.001 ‡	4				
				160	00.4020.572.002 ‡	5				
				150	00.4020.572.003 ‡	5				

‡ Pike 2014-2017 forks are not compatible with DebonAir C1 air springs.

‡ Not compatible with ZEB (A2), Lyrik (D1), and Pike (C1), including Ultimate Flight Attendant.

\* Maxima PLUSH Dynamic Suspension Lube



Fork	Model Year	Generation	Wheel Size (in)	Desired Max Travel (mm)	Upgrade Kit	Max Bottomless Tokens	Lower Leg Oil						
							Damper Side		Spring Side				
							Oil	Volume (mL)	Oil	Volume (mL)			
PIKE	2014-2017 †	A1-A2	26	160	00.4019.931.008 ‡	4	PLUSH Light*	10	PLUSH Light*	10			
				150	00.4019.931.009 ‡	4							
				140	00.4019.931.010 ‡	5							
				130	00.4019.931.011 ‡	6							
				120	00.4019.931.012 ‡	6							
			27.5	160	00.4019.931.007 ‡	4							
		150		00.4019.931.008 ‡	4								
		140		00.4019.931.009 ‡	5								
		130		00.4019.931.010 ‡	6								
		120		00.4019.931.011 ‡	6								
		29		160	00.4019.931.005 ‡	4							
			150	00.4019.931.006 ‡	4								
	140		00.4019.931.007 ‡	5									
	130		00.4019.931.008 ‡	6									
	120		00.4019.931.009 ‡	6									
	2018-2022		B1-B4	27.5	160	00.4020.552.000 ‡		4					
		150			00.4020.552.001 ‡	4							
		140			00.4020.552.002 ‡	5							
		130			00.4020.552.003 ‡	6							
		120			00.4020.552.004 ‡	6							
		29		A2-B1	29+	160		00.4020.572.002 ‡		5			
			150			00.4020.572.003 ‡		5					
			140			00.4020.572.004 ‡		6					
			130			00.4020.572.005 ‡		6					
120			00.4020.572.006 ‡			7							
2017-2020			A2-B1			29+	160	00.4020.572.000	4				
		150		00.4020.552.001	4								
	140	00.4020.552.002		5									
	130	00.4020.552.003		6									
	120	00.4020.552.004		6									
REVELATION	2018+	A1+	27.5	180	00.4020.572.000	4	PLUSH Light*	10	PLUSH Light*	10			
				170	00.4020.572.001	4							
				160	00.4020.572.002	5							
				150	00.4020.572.003	5							
				140	00.4020.572.004	6							
			29	130	00.4020.572.005	6							
				120	00.4020.572.006	7							
				27.5	A1+	29					180	00.4020.574.006 ‡	4
											180	00.4020.574.007 ‡	4
											170	00.4020.574.008 ‡	4
160	00.4020.574.009 ‡	5											
29	A1	29	150	00.4020.574.010 ‡	5								

† Pike 2014-2017 forks are not compatible with DebonAir C1 air springs.  
‡ Not compatible with ZEB (A2), Lyrik (D1), and Pike (C1), including Ultimate Flight Attendant.  
\* Maxima PLUSH Dynamic Suspension Lube



Lower Leg Removal

- 1 Remove the air valve cap from the top cap located on the non-drive side fork leg.



- 2 Use a small hex wrench to depress the Schrader valve and release all air pressure from the air chamber.

**⚠ CAUTION - EYE HAZARD**

Verify all pressure is removed from the fork before proceeding. Failure to do so can result in injury and/or damage to the fork. Wear safety glasses.



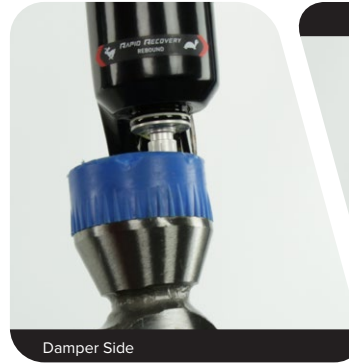
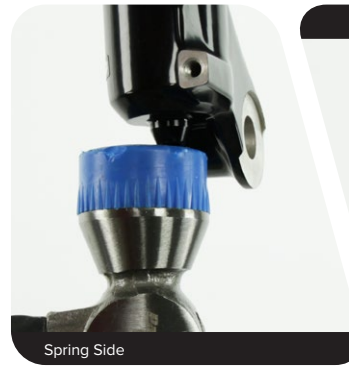
- 3 Use a 2.5 mm hex wrench to loosen the set screw and remove the rebound adjuster knob located at the bottom of the drive side fork leg.



- 4 Use a 5 mm hex wrench to loosen both bottom bolts 3 to 4 turns.



- 5** Place an oil pan beneath the fork to catch any draining oil.  
Use a rubber or plastic mallet to firmly strike each bottom bolt, or a hex wrench inserted into the bottom bolt for hollow bottom lower legs, to dislodge the air and damper shafts from the lower leg.  
Use a 5 mm hex wrench to remove the bottom bolts from the lower leg.



- 6** Firmly pull the lower leg downward until oil begins to drain. Continue pulling downward to remove the lower leg from the fork.  
**If the lower leg does not slide off of the upper tubes or if oil does not drain from either side, the press fit of the shaft(s) to the lower leg may still be engaged. Reinstall the bottom bolts 2 to 3 turns and repeat step 5.**

**NOTICE**

Do not hit the fork arch with any tool when removing the lower leg as this could damage the fork.



## Air Spring Removal

- 1 Use a 24 mm socket wrench or RockShox Top Cap/Cassette tool to remove the top cap.

Spray isopropyl alcohol on the upper tube threads and clean the threads with a shop towel.



## Bottomless Tokens Installation (optional)

Bottomless Tokens reduce air volume in your fork and create greater ramp at the end of the fork travel. Add tokens to tune your fork's bottomless feel. See [Travel Change and Bottomless Tokens](#) for the maximum number of Tokens for your fork.

Thread a Bottomless Token into another Bottomless Token, or into the bottom of the top cap, and tighten.



**2 Solo Air:** Use a flat blade screwdriver to push the SA seal head tab under the retaining ring.

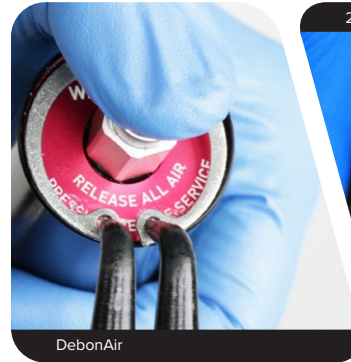
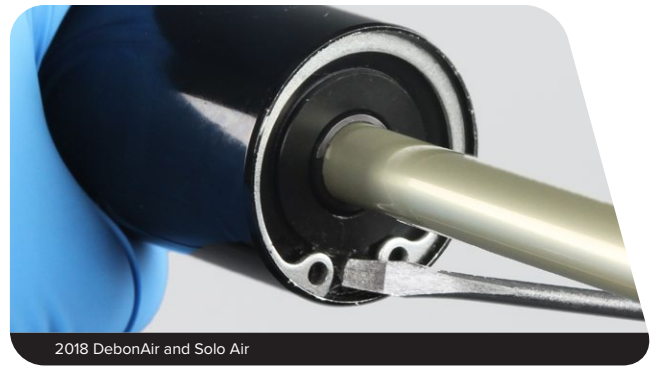
**NOTICE**

Scratches on the air shaft will allow air to bypass the seal head into the lower leg, resulting in reduced spring performance.

Place the tips of large internal retaining ring pliers into the eyelets of the retaining ring.

**2018 DebonAir and Solo Air:** Press firmly on the pliers to push the SA seal head into the upper tube enough to compress and remove the retaining ring. Slide the retaining ring onto your finger and release the air spring shaft.

**2019-2022 DebonAir:** Push the air shaft into the upper tube with your thumb. While holding the shaft in, remove the retaining ring. Slide the retaining ring onto your thumb and carefully release the air spring shaft.



**3** **2018 DebonAir and Solo Air:** Use your fingers to install the bottom bolt into the air shaft. Firmly pull on the bottom bolt to remove the air shaft assembly from the upper tube. Unthread and remove the bottom bolt from the air shaft.



**2019-2022 DebonAir:** Wrap a shop towel around the end of the air shaft for extra grip. Push the shaft half way into the upper tube, then quickly and firmly pull the shaft out to dislodge the seal head. Remove the air spring assembly from the upper tube.

A build up of negative air pressure may prevent the air spring from being pulled out of the upper tube. If the air spring is difficult to remove, use a clean plastic dowel to push the air spring piston down while pulling the air shaft out.



**4** Spray isopropyl alcohol on the inside and outside of the upper tube and clean it with a shop towel. Wrap a shop towel around a long dowel and insert it into the upper tube to clean inside the upper tube.



Continue with [DebonAir Seal Head Only Upgrade](#) if upgrading the seal head on a 2019-2020 DebonAir assembly.  
Continue with [DebonAir Spring Installation](#) if installing a DebonAir Upgrade kit.



## DebonAir Seal Head Only Upgrade

The following kit can be used to upgrade the seal head on a fork with a 2019+ DebonAir air spring previously installed.

Lyrik / Pike / Revelation / Yari (2019-2020)

00.4020.573.000

AM UPGR DB C1- 35MM SEAL HEAD

- 1 Clamp an 8 mm hex wrench into a vise. Position the air piston onto the hex wrench. While holding the air shaft, unthread and remove the air shaft nut from the air spring shaft.



- 2 Remove the seal head from the air spring shaft. Discard the seal head. Clean and inspect the shaft for damage.

Clean the top out bumper.

### NOTICE

Scratches on the air spring shaft can cause air to leak. If a scratch is visible the air spring assembly may need to be replaced.

Remove the air assembly from the vise.



- 3 Apply grease to the new seal head inner seal. Install the new seal head assembly onto the air shaft.



- 4 Remove the quad ring seal from the air piston and discard it. Clean the air piston.

Apply grease to a new quad ring seal and install it.

### NOTICE

Do not scratch the air piston. Scratches will cause air to leak.



- 5 Apply red Loctite 2760 or 270 to the first two to three full threads on the end of the air shaft.

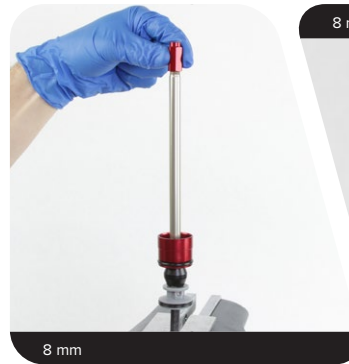
Clamp an 8 mm hex wrench into a vise. Insert the air piston onto the wrench to secure it. Install the new, red air shaft nut onto the air shaft and tighten it.

#### NOTICE

To ensure compatibility and correct performance, during reassembly **ONLY** use the shaft nut that is compatible with the **new** seal head.

The silver shaft nut is compatible only with the 2019-2020 seal head.

The red shaft nut is compatible only with the 2021-2022 seal head.



Continue with [DebonAir Spring Installation](#).



## DebonAir Spring Installation

- 1 Apply a liberal amount of grease evenly around the end of a clean plastic dowel, approximately 150 mm from one end. Use the dowel to apply the grease to the inside surface of the upper tube, approximately 150 mm into the tube.



- 2 Apply grease to the air piston and seal head outer o-rings/seals. Apply suspension oil to the spring shaft, above the seal head.

Fork	Oil
Pike	Maxima PLUSH Dynamic Suspension Lube Heavy
Revelation	
Lyrik	
Yari	
ZEB	



**3** Insert the air spring assembly into the upper tube. Firmly push the air piston into the upper tube.

Insert the seal head into the upper tube and firmly press it into the upper tube until it stops.



**4** Retaining rings have a sharper-edged side and a rounder edged side. Installing retaining rings with the sharper-edged side facing the tool will allow for easier installation and removal.

Place the tips of the retaining ring pliers into the eyelets of the retaining ring. Guide the retaining ring with your finger to prevent the shaft from getting scratched while installing the retaining ring.

Use the pliers to push the seal head into the upper tube while installing the retaining ring into the groove. Release the retaining ring pliers when the ring is fully seated in the groove.

**Confirm the retaining ring is properly seated in the retaining ring groove by using the retaining ring pliers to rotate the retaining ring and seal head back and forth a few times, then firmly pull down on the air shaft.**



#### NOTICE

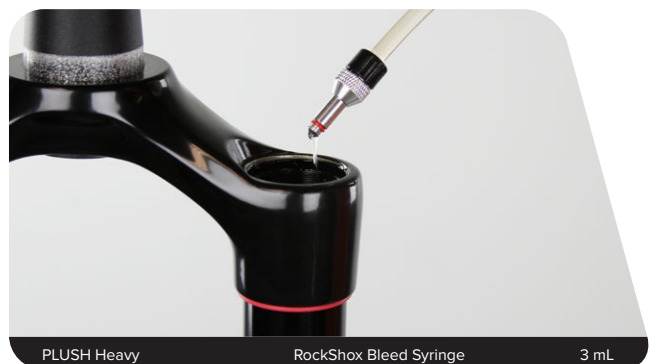
Do not scratch the air spring shaft. Scratches on the air shaft will allow air to bypass the seal head into the lower leg, resulting in reduced spring performance.

**5** Pull the shaft out until it stops.



**6** Inject or pour suspension oil into the air spring upper tube.

Fork	Oil
Pike	Maxima PLUSH Dynamic Suspension Lube Heavy
Revelation	
Lyrrik	
Yari	
ZEB	



PLUSH Heavy

RockShox Bleed Syringe

3 mL

- 7** Install the air spring top cap into the upper tube and tighten it. Press down firmly when tightening the top cap.



## Lower Leg Assembly

- 1 Spray isopropyl alcohol on the upper tubes and clean them with a shop towel.



- 2 Apply grease to the inner surfaces of the dust wiper seals.



- 3 Install the lower leg assembly onto the upper tubes and slide it just enough to engage the upper bushings with the upper tubes.

### NOTICE

Make sure both wiper seals slide onto the tubes without folding the outer lip of either seal.



The inside bottom of the lower leg should not contact the spring or damper shafts. A gap between the shaft ends and the lower leg bolt holes should be visible.



- 4** Position the fork at an angle with the bolt holes oriented upward. Inject suspension oil into each lower leg through the bottom bolt holes. Consult the [DebonAir Upgrade, Travel Change, and Bottomless Token](#) section for fork oil volumes. **Use the oil weight and volume for your fork model and year.**

**NOTICE**

Do not exceed the recommended oil volume per leg as this can damage the fork.



- 5** Slide the lower leg assembly along the upper tubes until it stops and the spring and damper shafts are visible through the lower leg bolt holes. Use a shop towel to clean all excess oil from the outer surface of the lower leg.



- 6** Thread the black bottom bolt into the non-drive side lower leg. Thread the silver bottom bolt into the drive side shaft of the lower leg. Use a torque wrench with a 5 mm hex bit socket to tighten the bolts to 7.3 N-m (65 in-lb).



- 7** Install the rebound adjuster knob onto the rebound damper bottom bolt. Use a torque wrench with a 2.5 mm hex bit socket to tighten the set screw to 0.9 N-m (8 in-lb).

**NOTICE**

Hold the rebound adjuster knob in place during installation to prevent damage to the bottom bolt.



- 8** Refer to your pre-service recorded settings, or use the air chart on the fork's lower leg, and pressurize the air spring.

*You may see a drop in the indicated air pressure on the pump gauge while filling the air spring; this is normal. Continue to fill the air spring to the recommended air pressure.*

Cycling the fork will equalize the positive and negative air chambers. After the fork is cycled 3-4 times, check the pressure and add air as needed.

Install the air valve cap.



- 9** Clean the entire fork.



**This concludes the DebonAir Spring Upgrade Kit installation.**



## BoXXer DebonAir Spring Upgrade Kit Compatibility

The following fork models are compatible with the new DebonAir upgrade kit:

### BoXXer (2019+)

### DebonAir Upgrade, Travel Change, and Bottomless Tokens

It is possible to change maximum fork travel by replacing the stock DebonAir spring assembly with a shorter or longer DebonAir spring assembly. Refer to the chart below for travel options. If maximum travel is increased or reduced it may also be necessary to add or remove Bottomless Tokens. Use the chart below to help determine the number of Bottomless Tokens that can be used with each maximum fork travel option.

Refer to the RockShox Spare Parts Catalog available at [www.sram.com/service](http://www.sram.com/service) for the required spare part kits. For part ordering information, please contact your local SRAM distributor or dealer.

Use ONLY RockShox, SRAM, and Maxima suspension oils/fluids and grease, unless otherwise specified. Use of any other lubricants can damage seals and decrease performance.

Suspension oil/fluid - Maxima PLUSH Dynamic Suspension Lube and RockShox 0w-30 suspension oils/fluids are forward and backward compatible with RockShox Dynamic Seal Grease and SRAM Butter Grease.

Refer to the appropriate RockShox suspension fork service manual, available at [www.sram.com/service](http://www.sram.com/service), for service specifications and procedures.

Fork	Model Year	Generation	Wheel Size (in)	Desired Max Travel (mm)	Upgrade Kit	Max Bottomless Tokens	Lower Leg Oil			
							Damper Side		Spring Side	
							Oil	Volume (mL)	Oil	Volume (mL)
BoXXer	2019+	C1+	27.5 29	200	00.4019.933.000	6	PLUSH Light*	10	PLUSH Light*	10
				190	00.4019.933.001	6				
				180	00.4019.933.002	6				

\* Maxima PLUSH Dynamic Suspension Lube

### Parts, Tools, and Supplies

#### Parts

- RockShox DebonAir Upgrade Kit

#### Safety and Protection Supplies

- Apron
- Clean, lint-free shop towels
- Nitrile gloves
- Oil pan
- Safety glasses

#### Lubricants and Fluids

- Maxima PLUSH Dynamic Suspension Lube Light or RockShox 0w-30 Suspension Oil
- Maxima PLUSH Dynamic Suspension Lube Heavy or RockShox 0w-30 Suspension Oil
- RockShox Suspension Cleaner or Isopropyl alcohol
- SRAM Butter grease

#### RockShox Tools

- RockShox Bleed Syringe
- RockShox Top Cap/Cassette tool (3/8" / 24 mm) or [RockShox x Abbey Bike Tools Top Cap/Cassette Tool](#)

#### Bicycle Tools

- Bicycle work stand
- Cassette tool
- Shock pump

#### Common Tools

- Hex bit sockets: 2.5, 4, 5, 6, 8 mm
- Hex wrenches: 2.5, 4, 5, 6, 8 mm
- Internal retaining ring pliers - large
- Long plastic or wooden dowel
- Needle nose pliers
- Rubber or plastic mallet
- Small flat blade screwdriver
- Socket wrench
- Torque wrench

### SAFETY INSTRUCTIONS

Always wear safety glasses and nitrile gloves when working with suspension oil.

Place an oil pan on the floor underneath the area where you will be working on the suspension fork.



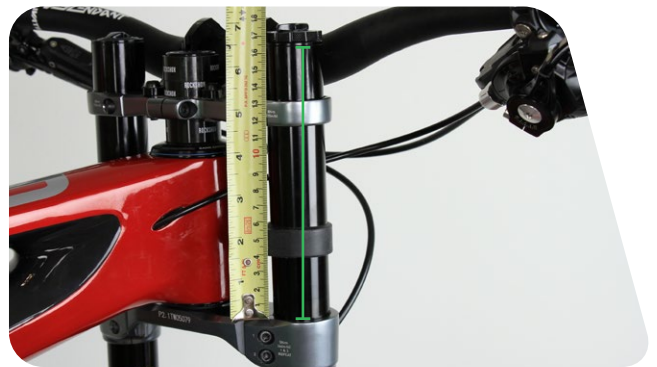
## Fork Removal

We recommend the following steps to remove your BoXXer from the bicycle. Removing the fork from the bicycle provides easy access to internal components and is more convenient than working around a complete bicycle.

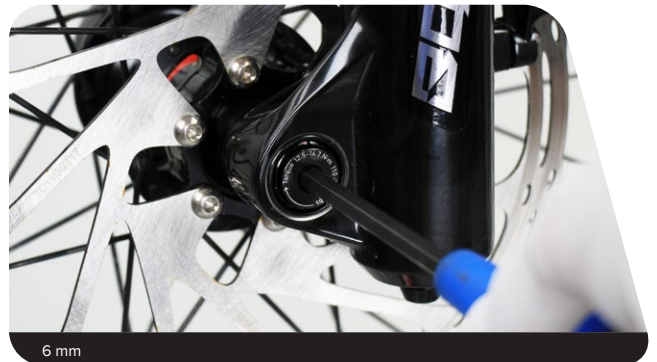
- 1 Secure the bicycle in a bicycle work stand.



- 2 To assist you with post-service assembly, record the distance from the top of the upper tube to the top of the lower crown.



- 3 Loosen and unthread the spring side Maxle DH counter-clockwise three full turns.



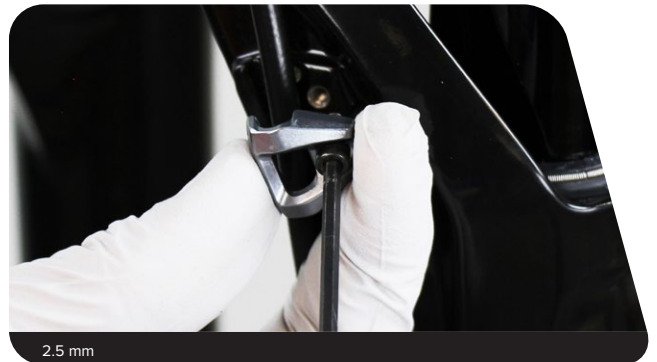
- 4** On the damper side of the lower leg, unthread the Maxle DH counter-clockwise and remove it from lower leg.



Remove the wheel.



- 5** Remove the brake hose guide and set it aside.



- 6** Insert a brake pad spreader into the brake caliper.



Remove the brake caliper. Temporarily secure the brake caliper and brake hose to the bicycle, away from the fork.



- 7** Loosen the upper and lower crown upper tube pinch bolts. **Do not loosen the upper crown steerer tube pinch bolt.**



- 8** Slide the upper tubes down so they clear the upper crown. Leave enough clearance between the upper tube and upper crown to remove the frame bumpers, if installed.

*Some bicycle frames include integrated frame bumpers. Remove the RockShox bumpers as needed.*

Tighten one of the lower crown bolts to temporarily hold the upper tubes in place while you remove the frame bumpers.



- 9** Use your thumb to pry the thickest section of each frame bumper away from the upper tubes. Spray isopropyl alcohol or water between each bumper and upper tube. Twist the frame bumpers back and forth until they are loose on the upper tube.

Remove the frame bumpers from the upper tubes.



- 10** Loosen the lower crown pinch bolt. Slide the upper tubes through the lower crown and remove the fork from the bicycle.

Clean the upper tubes and the inside surface of the upper and lower crowns.

Remove the bicycle from the bicycle work stand and set it aside.





## Lower Leg Removal

- 1 Clamp the spring side upper tube into the bicycle work stand.



- 2 Remove the air valve cap.



- 3 *The positive and negative air chambers must be depressurized simultaneously.*

While holding the lower leg arch and pushing the lower leg down, depress the Schrader valve and slowly release air pressure.

Slowly allow the lower leg to compress while applying opposing pressure until you feel a sudden decrease in compressing resistance, then hold the lower leg in place to allow both air chambers to depressurize.

Push the lower leg down to extend the fork until there is no resistance and the fork can be fully extended.

Release any remaining air pressure.

### **⚠ CAUTION - EYE HAZARD**

Verify all pressure is removed from the fork before proceeding. Failure to do so can result in injury and/or damage to the fork. Wear safety glasses.



- 4 Place an oil pan beneath the fork to catch the draining oil.  
Loosen the spring side bottom bolt 3 to 4 turns.



- 5 Strike the spring side bottom bolt to dislodge the shaft from the lower leg. The bolt head should contact the bottom of the lower leg.  
Remove the bottom bolt. Clean the bolt and set it aside.



- 6 Push the lower leg downward until oil begins to drain. Continue pushing downward to remove the lower leg.  
The air spring shaft should be nearly fully extended. If the spring is fully compressed and the shaft nut is inside the upper tube, pressurize the air spring, reinstall the lower leg, compress the fork a few times to pressurize the negative air chamber, and repeat the depressurization process (step 3).

*If the lower leg does not slide off of the upper tube or if oil does not drain from either side, the press fit of the air shaft into the lower leg may still be engaged. Reinstall the bottom bolt 2 to 3 turns and repeat the previous step.*

#### NOTICE

Do not strike the fork arch with any tool when removing the lower leg as this could damage the lower leg.

Remove the upper tube assembly from the bicycle work stand.

Remove the sag o-ring.

Set the lower leg and damper side upper tube assembly aside.



## ⚠ WARNING- EYE HAZARD

Verify all pressure is removed from the fork before proceeding. Depress the Schrader valve again to remove any remaining air pressure. Failure to do so can result in injury and/or damage to the fork.

### NOTICE

Inspect each part for scratches. Do not scratch any sealing surfaces when servicing your suspension. Scratches can cause leaks.

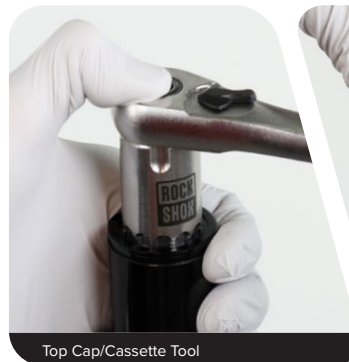
When replacing seals and o-rings, use your fingers or a pick to remove the seal or o-ring. Spray isopropyl alcohol on each part and clean with a clean lint-free shop towel.

Apply SRAM Butter grease to the new seals and o-rings

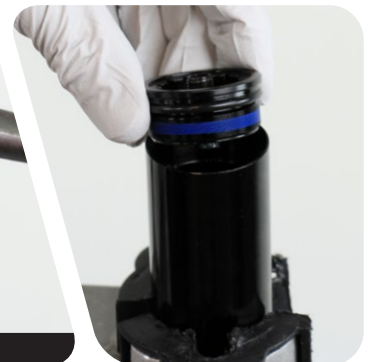


SRAM Butter

- 1 Remove the air spring top cap.  
Clean the upper tube threads.



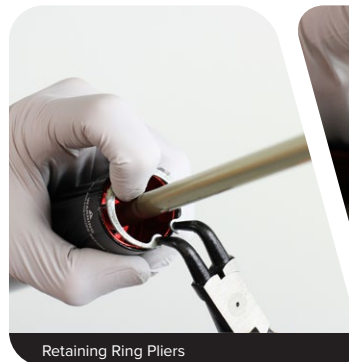
Top Cap/Cassette Tool



- 2 Remove the retaining ring. Use your finger to guide the retaining ring over the spring shaft.

### NOTICE

Do not scratch the air spring shaft. Scratches on the air shaft will allow air to bypass the seal head into the lower leg, resulting in reduced spring performance.



Retaining Ring Pliers





- 3** Wrap a shop towel around the end of the air shaft for extra grip. Push the shaft half way into the upper tube, then quickly and firmly pull the shaft out to dislodge the seal head. Remove the air spring assembly from the upper tube.

*If the air spring is difficult to remove, use a clean plastic dowel to push the air spring piston down while pulling the air shaft out.*

#### **NOTICE**

Do not scratch the inside of the upper tube. Scratches will allow air to bypass the seals resulting in reduced spring performance.



- 4** Clean the inside and outside of the upper tube. Inspect the inside and outside of the upper tube for damage.

#### **NOTICE**

Scratches on the inside surface of the upper tube can cause air to leak. If an internal scratch is visible, the crown steerer upper tube assembly may need to be replaced.



## Bottomless Tokens (optional)

Bottomless Tokens can be added to, or removed from, the DebonAir top cap to fine-tune the bottom-out feel and spring curve. Use the chart below to help determine the number of Bottomless Tokens that can be used with each maximum fork travel option. If fork travel is changed from stock, it may be necessary to add or remove Bottomless Tokens.

Refer to the RockShox Spare Parts Catalog at [www.sram.com/service](http://www.sram.com/service) for available air spring and Bottomless Token kits.

For part ordering information, please contact your local SRAM distributor or dealer.

## DebonAir - Travel and Bottomless Token Tuning

Fork Travel	27.5" Boost and 29" Boost	
	Bottomless Tokens Factory Installed	Bottomless Tokens Maximum
200	0	6
190	1	6
180	2	6

## Bottomless Tokens Installation (optional)

Bottomless Tokens reduce air volume in your fork and create greater ramp at the end of the fork travel. Add tokens to tune your fork's bottomless feel. See the table above for the maximum number of Tokens for your fork.

**DebonAir:** Thread a Bottomless Token into another Bottomless Token, or into the the bottom of the top cap, and tighten.



## DebonAir Spring Installation

- 1 Apply a liberal amount of grease evenly around the end of a clean plastic dowel, approximately 150 mm from one end. Use the dowel to apply the grease to the inside surface of the upper tube, approximately 150 mm into the tube.



- 2 Apply a liberal amount of grease to the air spring shaft.



- 3 Apply grease to the air piston and seal head outer o-rings/seals.

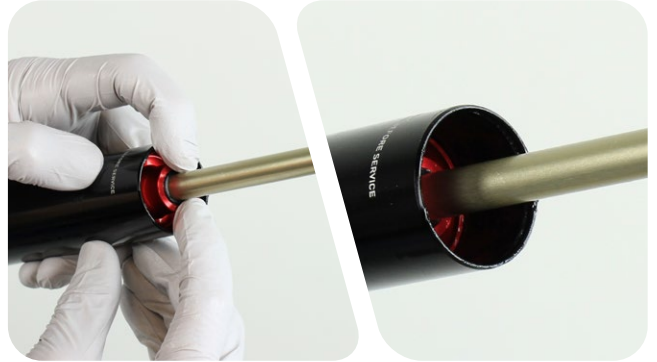


**4** Apply suspension oil to the spring shaft, above the seal head.

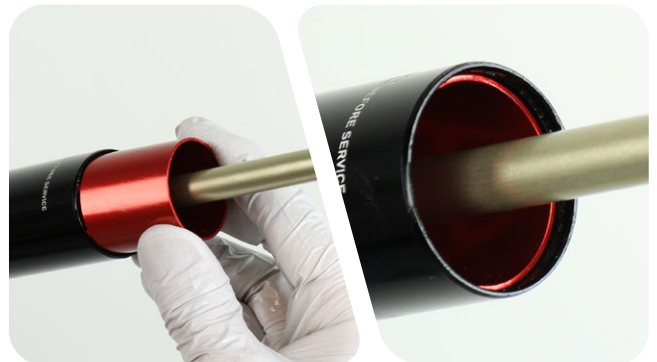


**5** Insert the air spring assembly into the upper tube. Firmly push the air piston into the upper tube.

Insert the seal head into the upper tube and firmly press it into the upper tube until it stops.



**6** Install the seal head spacer.



- 7** Retaining rings have a sharper-edged side and a rounder edged side. Installing retaining rings with the sharper-edged side facing the tool will allow for easier installation and removal.

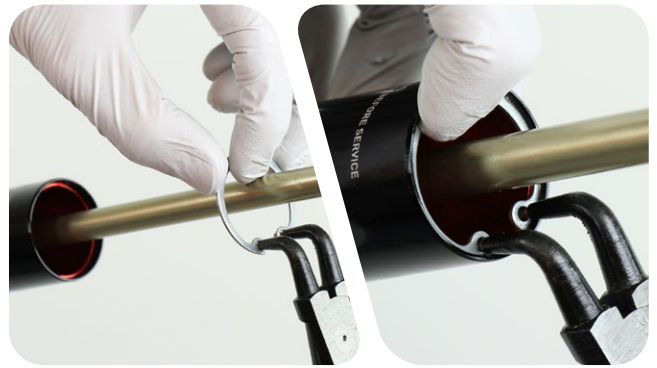
Place the tips of the retaining ring pliers into the eyelets of the retaining ring. Guide the retaining ring with your finger to prevent the shaft from getting scratched while installing the retaining ring.

Push the retaining ring into the groove. Release the retaining ring pliers when the ring is fully seated in the groove.

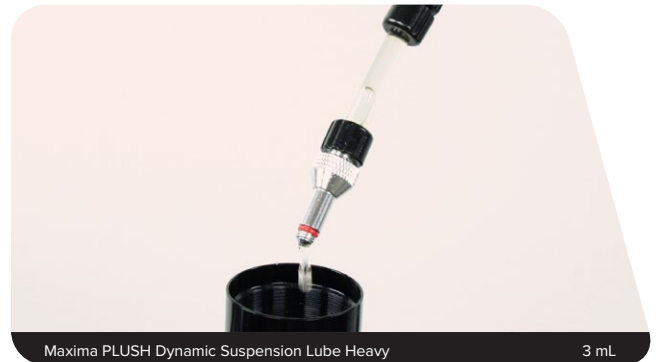
**Confirm the retaining ring is properly seated in the retaining ring groove by using the retaining ring pliers to rotate the retaining ring and seal head back and forth a few times, then firmly pull down on the air shaft.**

### NOTICE

Do not scratch the air spring shaft. Scratches on the air shaft will allow air to bypass the seal head into the lower leg, resulting in reduced spring performance.



- 8** Inject or pour suspension oil into the air spring upper tube.



- 9** Install the air spring top cap into the upper tube and tighten it.



## Lower Leg Installation

- 1 Clean the upper tube.



- 2 Clamp the spring side upper tube into the work stand angled slightly upward.



- 3 Install the spring side lower leg onto the upper tube and slide it just enough to engage the upper bushing.

### NOTICE

Make sure the wiper seal slides onto the tube without folding the outer lip of the seal.

The inside bottom of the lower leg should not contact the spring shaft. A gap between the shaft end and the lower leg bolt hole should be visible.





- 4 Inject 10 mL of suspension oil into the lower leg through the bottom bolt hole.

**NOTICE**

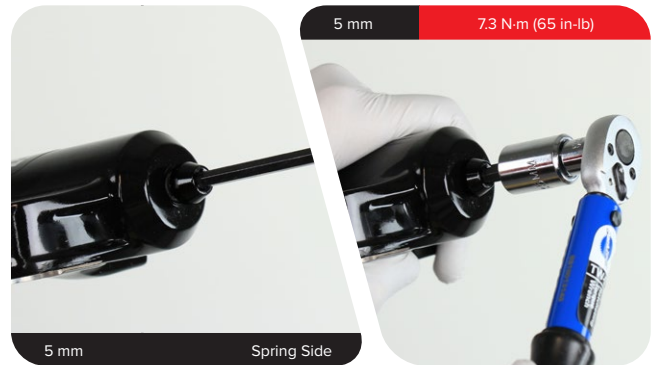
Do not exceed the recommended oil volume per leg as this can damage the fork.



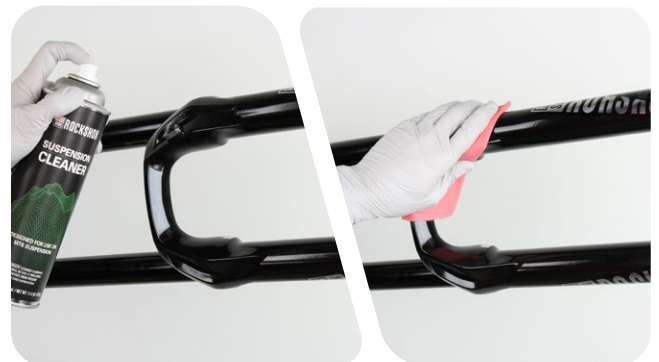
- 5 Slide the lower leg assembly onto the upper tube until it stops. The spring shaft should be visible and centered in the bottom bolt hole. Verify the shaft is centered and seated in the lower leg shaft/bolt hole and no gap is visible between the lower leg and the shaft end.



- 6 Install the black bottom bolt into the shaft and tighten it to the specified torque.



- 7 Clean the entire fork. Remove the fork from the bicycle work stand and set it aside.



## Fork Installation

**1** Secure the bicycle in a bicycle work stand.



**2** Reinstall the sag o-ring onto the spring side upper tube.



**3** Slide each upper tube through the lower crown. Leave enough clearance between the upper tube and upper crown to install the frame bumpers.

*Some bicycle frames include integrated frame bumpers. Install the RockShox bumpers as needed.*

Tighten one of the lower crown bolts to temporarily hold the tubes in place while you install the bumpers.



- 4 Spray isopropyl alcohol or water on the inner surface of each frame bumper and the upper tubes. Reinstall the frame bumpers onto the upper tubes.

Loosen the lower crown pinch bolt.



- 5 Push and twist the upper tubes through the upper crown until both upper tubes extend past the top of the upper crown by an equal amount and at least 2 mm.

Measure the distance from the top of the upper tube to the top of the lower crown. This distance must be 164 mm ( $\pm 2$  mm).

**CAUTION**

The length of the upper tubes measured from the top of the upper tube to the top of the lower crown must be **not less than 162 mm** and **not greater than 166 mm**. Tire contact with the lower crown and/or damage to the fork while riding may result in loss of control and serious injury to the rider.



- 6** On one side of the fork, tighten the top bolt on the lower crown to the specified torque, then tighten the lower bolt on the lower crown to the specified torque.

Tighten the top bolt to torque once more, then tighten the bottom bolt to torque again.

Repeat this tightening procedure for the bolts on the other side of the lower crown.



- 7** Tighten each upper crown pinch bolt to the specified torque.



- 8** Position and hold the brake hose on the lower leg brake hose guide, reinstall the clamp, and tighten the bolt finger tight.

**NOTICE**

To avoid damage to the hose guide and lower leg, do not over tighten the hose guide bolt.



- 9** Reinstall the brake caliper according to the brake manufacturer's instructions.





- 10 Position the front wheel in the lower leg dropouts so the hub is seated in the dropouts and hold it in place.

**NOTICE**

Verify no parts interfere with the lower leg. Consult your brake manufacturer's instructions for brake caliper adjustment procedures.



- 11 Install the threaded end of the Maxle DH through the damper side of the lower leg, and through the hub until it engages the threads in the spring side lower leg dropout.

Tighten the Maxle DH to the specified torque.



- 12 Tighten the Maxle DH bolt on the spring side to the specified torque.



- 13 Clean the entire fork.



**14** Refer to your pre-service recorded settings, or use the air chart on the fork's lower leg, and pressurize the air spring.

*You may see a drop in the indicated air pressure on the pump gauge while filling the air spring; this is normal. Continue to fill the air spring to the recommended air pressure.*

Cycling the fork will equalize the positive and negative air chambers. After the fork is cycled 3-4 times, check the pressure and add air as needed.

Install the air valve cap.



**15** Make any final brake hose and brake caliper adjustments as needed.



**This concludes the DebonAir Spring Upgrade Kit installation.**



**These are registered trademarks of SRAM, LLC:**

1:1®, Accuwatt®, Avid®, ATAC®, AXS®, Bar®, Bioposition®, Blackbox®, BoXXer®, DoubleTap®, eTap®, Firecrest®, Firex®, Grip Shift®, GXP®, Holzfeller®, Hussefelt®, Icllic®, i-Motion®, Judy®, Know Your Powers®, NSW®, Omnium®, Osmos®, Pike®, PowerCal®, PowerLock®, PowerTap®, Qollector®, Quarq®, RacerMate®, Reba®, Rock Shox®, Ruktion®, Service Course®, ShockWiz®, SID®, Single Digit®, Speed Dial®, Speed Weaponry®, Spinscan®, SRAM®, SRAM APEX®, SRAM EAGLE®, SRAM FORCE®, SRAM RED®, SRAM RIVAL®, Stylo®, TIME®, Truvativ®, TyreWiz®, UDH®, Varicrank®, Velotron®, X0®, X01®, X-SYNC®, XX1®, Zipp®

**These are registered logos of SRAM, LLC:**



**These are trademarks of SRAM:**

10K™, 1X™, 202™, 30™, 30 Course™, 35™, 302™, 303™, 353™, 404™, 454™, 808™, 858™, 3ZERO MOTO™, ABLC™, AeroGlide™, AeroBalance™, AeroLink™, Airea™, Air Guides™, AirWiz™, AKA™, AL-7050-TV™, Atmos™, Automatic Drive™, AxCad™, Axial Clutch™, Base™, BB5™, BB7™, BB30™, Bleeding Edge™, Blipbox™, BlipClamp™, BlipGrip™, Blips™, Bluto™, Bottomless Tokens™, ButterCup™, Cage Lock™, Carbon Bridge™, Centera™, Charger™, Charger 2™, Charger 3™, Charger Race Day™, Cleansweep™, Clickbox Technology™, Clics™, Code™, Cognition™, CoLab™, Connectamajig™, Counter Measure™, CYCLO™, DB8™, DD3™, DD3 Pulse™, DebonAir™, Deluxe™, Descendant™, DFour™, DFour91™, DH™, Dig Valve™, DirectLink™, Direct Route™, Domain™, DOT 5.1™, Double Decker™, Double Time™, Dual Flow Adjust™, Dual Position Air™, DUB™, DUB-PWR™, DZero™, E300™, E400™, Eagle™, E-Connect4™, ErgoBlade™, ErgoDynamics™, ESP™, EX1™, Exact Actuation™, Exogram™, Flight Attendant™, Flow Link™, FR-5™, Full Pin™, G2™, G40™, Giga Pipe™, Gnar Dog™, Guide™, GS™, GX™, Hammerhead™, Hard Chrome™, Hexfin™, HollowPin™, Howitzer™, HRD™, Hybrid Drive™, Hyperfoil™, i-3™, Impress™, Jaws™, Jet™, Kage™, Karoo™, Komfy™, LINK™, Lyrik™, MatchMaker™, Maxle™, Maxle 360™, Maxle DH™, Maxle Lite™, Maxle Lite DH™, Maxle Stealth™, Maxle Ultimate™, Micro Gear System™, Mini Block™, Mini Cluster™, Monarch™, Monarch Plus™, Motion Control™, Motion Control DNA™, MRX™, MX™, Noir™, NX™, OCT™, OmniCal™, OneLoc™, Paceline™, Paragon™, PC-1031™, PC-1110™, PC-1170™, PG-1130™, PG-1050™, PG-1170™, Piggyback™, Poploc™, Power Balance™, Power Bulge™, PowerChain™, PowerDomeX™, Powered by SRAM™, PowerGlide™, PowerLink™, Power Pack™, Power Spline™, Predictive Steering™, Pressfit™, Pressfit 30™, Prime™, Qalvin™, R2C™, Rapid Recovery™, Recon™, Reverb™, Revelation™, Riken™, Roller Bearing Clutch™, Rolling Thunder™, RS-1™, Rudy™, Rush™, RXS™, Sag Gradients™, Sawtooth™, SCT - Smart Coasterbrake Technology™, Seeker™, Sektor™, SHIFT™, ShiftGuide™, Shorty™, Showstopper™, SIDLuxe™, Side Swap™, Signal Gear Technology™, SL™, SL-70™, SL-70 Aero™, SL-70 Ergo™, SL-80™, SL-88™, SLC2™, SL SPEED™, SL Sprint™, Smart Connect™, Solo Air™, Solo Spoke™, Speciale™, SpeedBall™, Speed Metal™, SRAM APEX 1™, SRAM Force 1™, SRAM RIVAL 1™, S-series™, Stealth-a-majig™, StealthRing™, Super-9™, Supercork™, Super Deluxe™, Super Deluxe Coil™, SwingLink™, SX™, Tangente™, TaperCore™, Timing Port Closure™, TSE Technology™, Tool-free Reach Adjust™, Top Loading Pads™, Torque Caps™, TRX™, Turnkey™, TwistLoc™, VCLC™, Vivid™, Vivid Air™, Vuka Aero™, Vuka Alumina™, Vuka Bull™, Vuka Clip™, Vuka Fit™, Wide Angle™, WiFLI™, X1™, X3™, X4™, X5™, X7™, X9™, X-Actuation™, XC™, X-Dome™, XD™, XDR™, XG-1150™, XG-1175™, XG-1180™, XG-1190™, X-Glide™, X-GlideR™, X-Horizon™, XLoc Sprint™, XPLR™, XPRESSO™, XPRO™, X-Range™, XX™, Yari™, ZEB™, Zero Loss™, ZM2™, ZR1™



Specifications and colors subject to change without prior notice.  
© 2022 SRAM, LLC

**This publication includes trademarks and registered trademarks of the following companies:**

Maxima™ and PLUSH™ are trademarks owned by Maxima Racing Oils.

---

ASIAN HEADQUARTERS

SRAM Taiwan  
No. 1598-8 Chung Shan Road  
Shen Kang Hsiang, Taichung City  
Taiwan R.O.C.

WORLD HEADQUARTERS

SRAM LLC  
1000 W. Fulton Market, 4th Floor  
Chicago, Illinois 60607  
U.S.A.

EUROPEAN HEADQUARTERS

SRAM Europe  
Paasbosweg 14-16  
3862ZS Nijkerk  
The Netherlands