ROCKSHOX

35

2020-2021
35

SERVICE 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.

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.

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

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 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

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 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/company/environment.

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.

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 35 Gold 200 Hour Service Kit
- RockShox 35 Silver 200 Hour Service Kit

Safety and Protection Supplies

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

Lubricants and Fluids

- RockShox 5wt suspension oil
- RockShox 15wt suspension oil
- RockShox Suspension Cleaner or isopropyl alcohol
- SRAM Butter grease or Liquid-O-Ring PM600 grease

RockShox Tools

- RockShox Bleed Syringe
- RockShox Dust Seal Installation Tool (35 mm) or RockShox x Abbey Bike Tools 35 mm Flangeless Dust Seal Installation Tool
- RockShox shock pump

Bicycle Tools

- Bicycle work stand
- Downhill tire lever

Common Tools

- Box cutter (35 Silver, coil spring only)
- Flat blade screwdriver
- Heat gun (35 Silver, coil spring only)
- Hex bit sockets: 2, 2.5, 5 mm
- Hex wrenches: 2, 2.5, 5, 8 (x2), mm
- Internal retaining ring pliers
- Long plastic or wooden dowel (≤ 10 mm, 15-17 mm, ≤ 25 mm diameter)
- Needle nose pliers
- Pick
- Rubber or plastic mallet
- Socket: RockShox x Abbey Bike Tools 24 mm Top Cap Socket or 24 mm, 8 mm (remote compression damper only)
- 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.

Recommended Service Intervals

Regular service is required to keep your RockShox product working at peak performance. Follow this maintenance schedule and install the service parts included in each service kit that corresponds with the Service Hours Interval recommendation below. For spare part kit contents and details, refer to the RockShox Spare Parts Catalog at www.sram.com/service.

Service Hours Interval	Maintenance	Benefit
Every ride	Clean dirt from upper tubes and wiper seals	Extends wiper seal lifespan
		Minimizes damage to upper tubes
		Minimizes lower leg contamination
Every 50 hours	Perform lower leg service	Restores small bump sensitivity
		Reduces friction
		Extends bushing lifespan
Every 200 hours	Perform damper and spring service	Extends suspension lifespan
		Restores small bump sensitivity
		Restores damping performance

Record Your Settings

Use the table below to record your suspension settings to return your suspension to its pre-service settings. Record your service dates to track service intervals.

Service Hours Interval	Date of Service	Air Pressure	Rebound setting - Count the number of clicks while turning the rebound adjuster fully counter-clockwise.
50			
100			
150			
200			

Torque Values

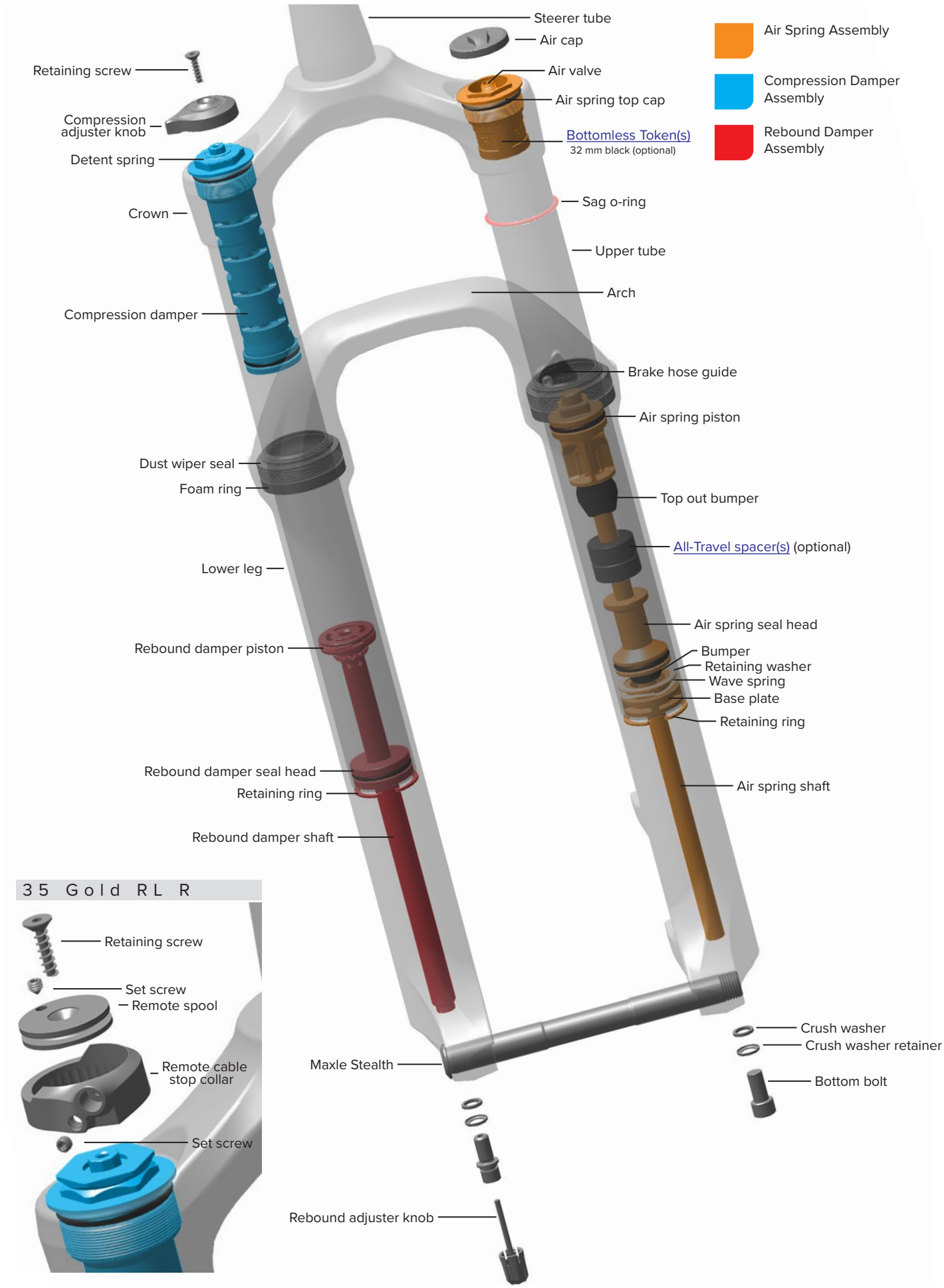
Part	Tool	Torque
Bottom bolts	5 mm hex bit socket	6.8 N•m (60 in-lb)
Bottomless Tokens	8 mm hex and 24 mm socket	4 N•m (35 in-lb)
Retaining screw - compression knob and remote spool	2.5 mm hex bit socket	1.4 N•m (12 in-lb)
Set screw - remote cable stop collar	2 mm hex bit socket	Finger Tight or 0.1-0.3 N•m (0.8-2.6 in-lb)
Top caps	24 mm socket	28 N•m (250 in-lb)

Oil Volume and Lubricant

			Damper						Spring				
				Upper Tube			Lower Leg			Upper Tube		Lower Leg	
Model Year	**Fork**	**Model**	**Damper**	**Oil Weight (wt)**	**Oil Height* (mm)**	**Volume (mL)**	**Oil Weight (wt)**	**Volume (mL)**	**Spring**	**Oil Weight‡ (wt) and/or Grease**	**Volume (mL)**	**Oil Weight (wt)**	**Volume (mL)**
2020-2021	**35 Gold**	RL RL R†	Motion Control	5	85-90	170	15	10	DebonAir	5‡	2	15	10
2021	**35 Silver**	TK TK R†	TurnKey		90-95	210			Solo Air				
		R	Rebound						Coil	PM600 or SRAM Butter	Grease Coil Spring		

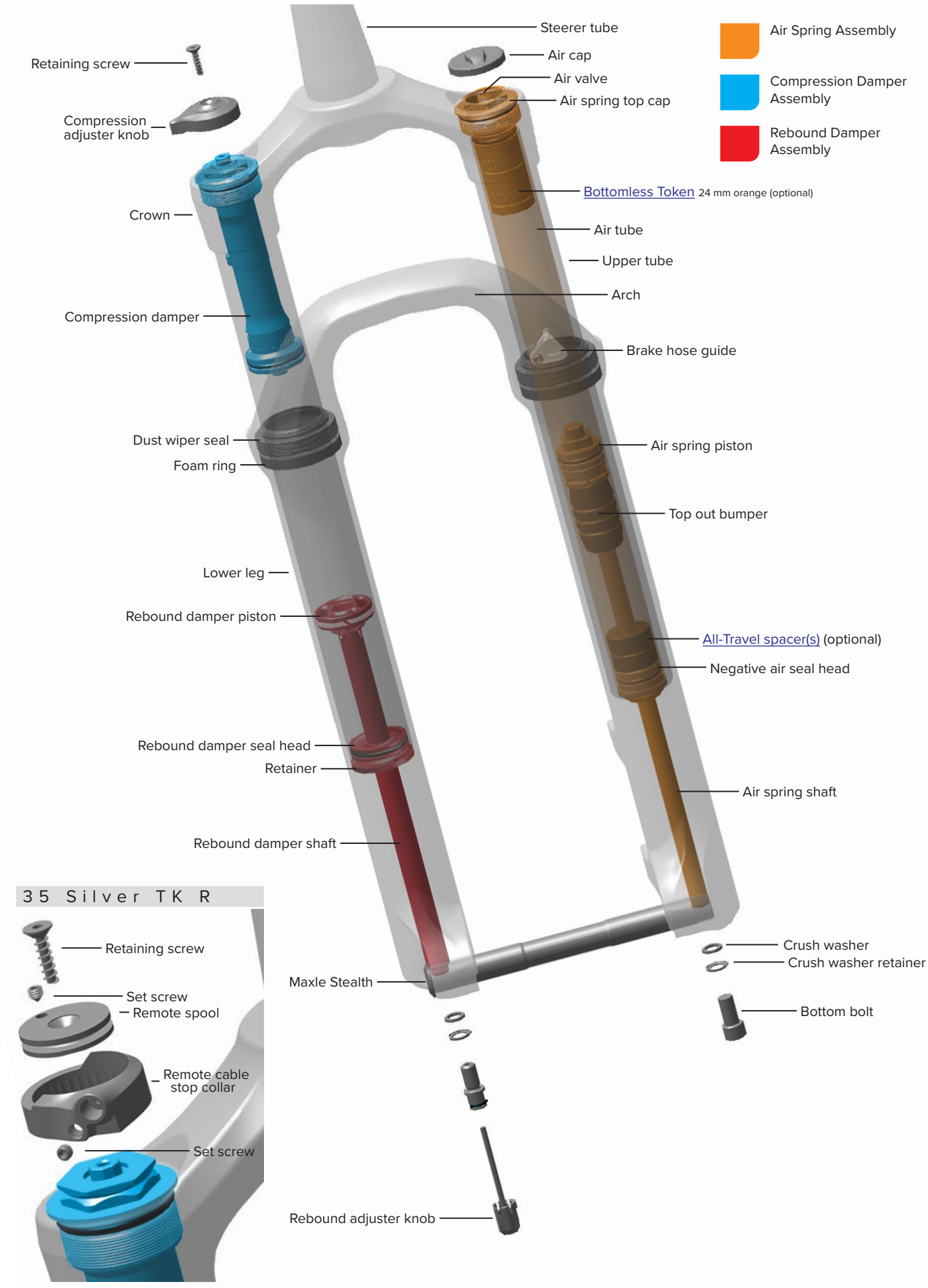
*Oil Height - Measure from the top of the crown (above the upper tube) down to the oil.
†Remote Adjust
‡Apply grease (PM600 or SRAM Butter) to the air piston in addition to suspension oil.

Exploded View - 2020-2021 35 Gold RL - DebonAir

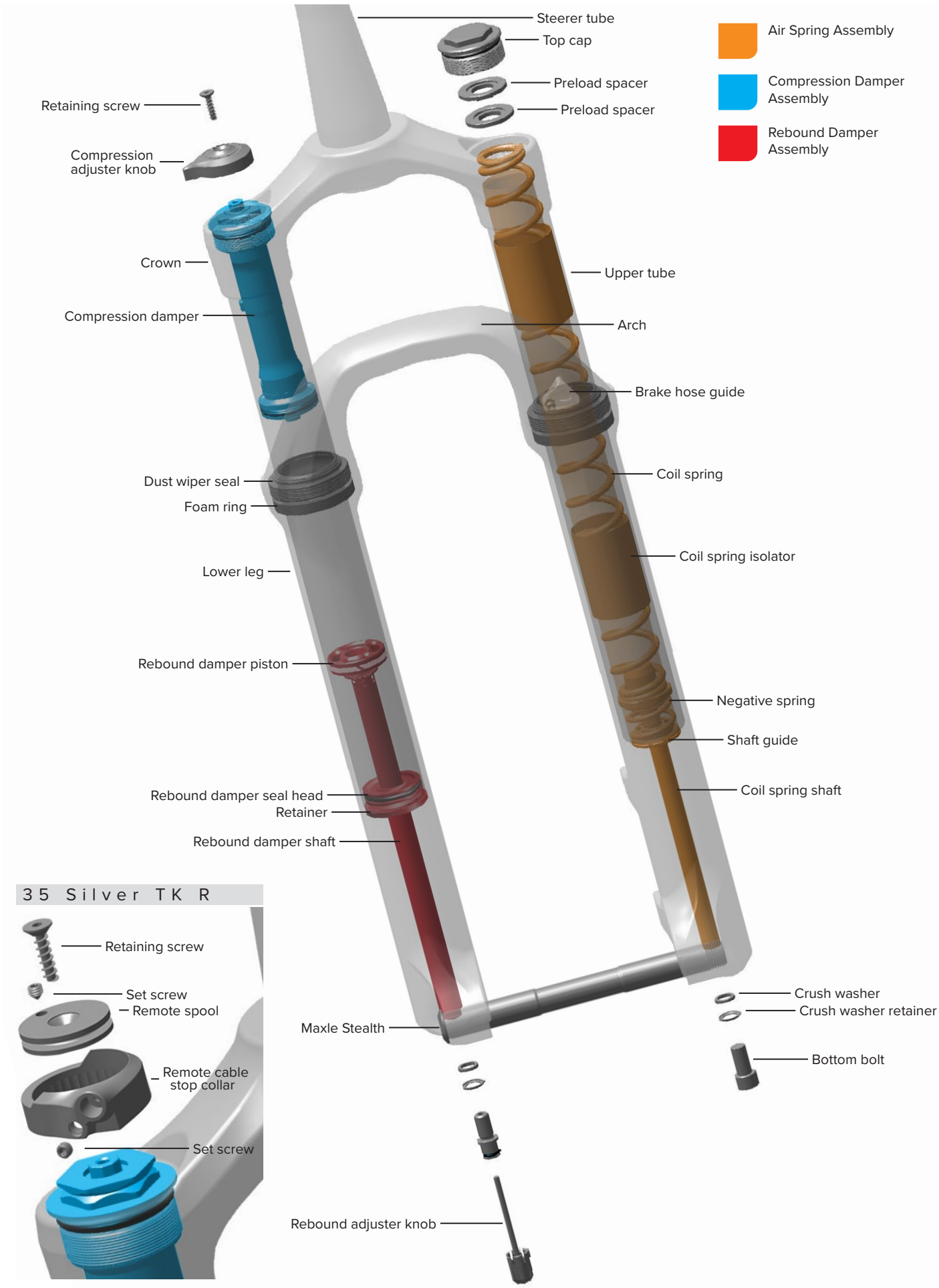


35 Gold RL R

Exploded View - 2021 35 Silver TK - Solo Air

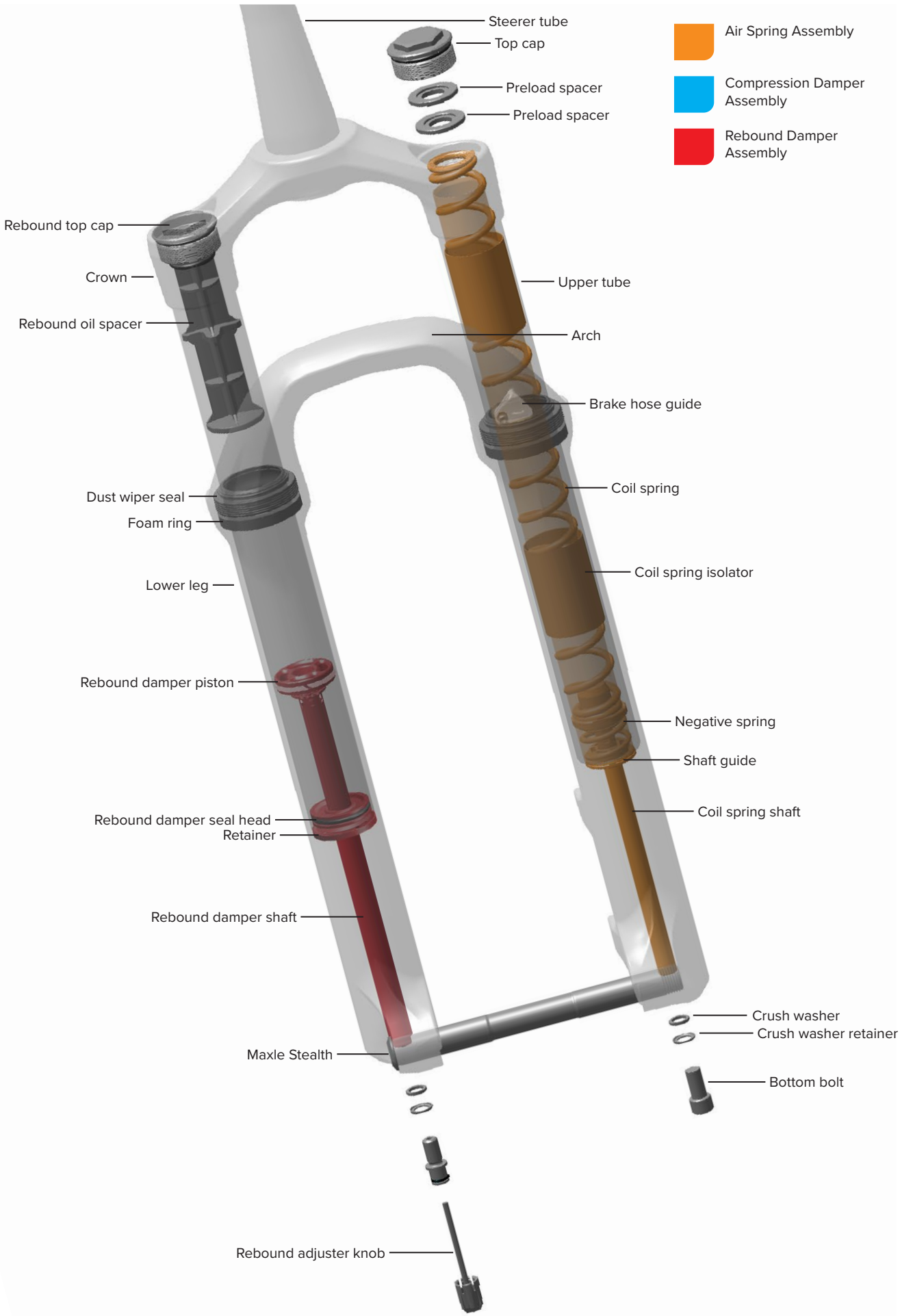


Exploded View - 2021 35 Silver TK - Coil



35 Silver TK R

Exploded View - 2021 35 Silver R - Coil



50/200 Hour Service Lower Leg Removal

1 **Air Spring Forks**: Remove the air valve cap.

2 **Air Spring Forks**: Depress the Schrader valve and release all 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.

3 Turn the rebound adjuster knob counter-clockwise until it stops. This is the full open/fast rebound setting.

Remove the rebound adjuster knob.

4 Place an oil pan beneath the fork to catch the draining oil.

Loosen both bottom bolts 3 to 4 turns.

5 Strike each bolt head to dislodge the shafts from the lower leg. The bolt head should contact the bottom of the lower leg.

Remove each bottom bolt. Clean each bolt and set them aside.

6 Firmly pull the lower leg downward until fluid begins to drain. Continue pulling downward to remove the lower leg.

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 shaft(s) into the lower leg may still be engaged. Reinstall the bottom bolts 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.

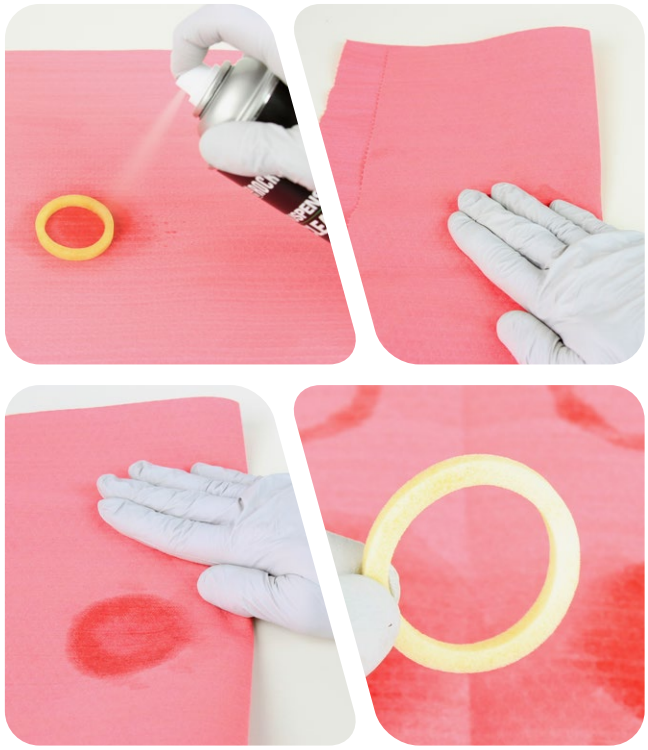
50 Hour Service Continue the 50 Hour Service with Lower Leg Service.

200 Hour Service Continue the 200 Hour Service with Lower Leg Seal Service.

1 Remove the foam rings.

2 Clean the foam rings.

Replace the foam rings if worn, damaged, or excessively contaminated.



3 Clean the inside and outside of the lower leg.

Clean the wiper seals.

4 Install the dry foam rings under the wiper seals.

Confirm the foam rings are installed evenly and sqaure in the space under the wiper seals, and do not protrude out of the groove.

5 Saturate the foam rings with suspension oil.

50 Hour Service Continue the 50 Hour Service with Lower Leg Installation.

1 Remove and discard the foam rings.

Remove the outer wire springs from the dust wiper seals.

2 Stabilize the lower leg on a bench top. Place the tip of a downhill tire lever under the wiper seal. Press down on the downhill tire lever handle to remove the seal.

Repeat on the other side. Discard the wiper seals.

NOTICE

Keep the lower leg stable. Do not allow the lower leg to twist in opposite directions, compress toward each other, or be pulled apart. This will damage the lower leg.

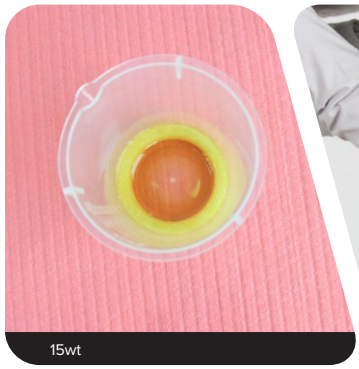
Downhill tire lever

3 Clean the inside and outside of the lower leg.

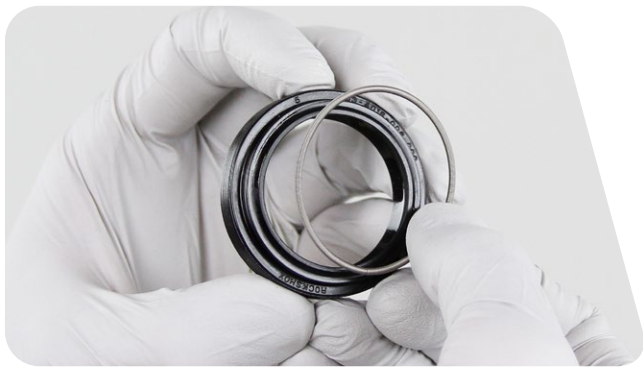
Dowel

4 Soak new foam rings in RockShox suspension oil.

Install the new foam rings into the lower leg.


15wt

5 Remove the outer wire spring from each new dust wiper seal and set them aside.



6 Insert the narrow end of a new wiper seal into the recessed end of the 35 mm Dust Seal Installation tool.

NOTICE

If the RockShox x Abbey Bike Tools installation tool is used, confirm the 35 mm installation puck is tightened hand tight on the installation tool handle to avoid damage to the installation puck during use.


RockShox 35 mm Dust Seal Installation Tool


Abbey Bike Tools 35 mm Dust Seal Installation Tool

7 Stabilize the lower leg on a bench top. Hold the lower leg steady and press the wiper seal into the lower leg until the top of the seal is flush with the top of the lower leg.

Repeat on the other side.

NOTICE

Only press the wiper seal into the lower leg until it is flush with the top surface of the lower leg. Pressing the wiper seal below the top surface of the lower leg will compress the foam ring.

RockShox 35 mm Dust Seal Installation Tool

Abbey Bike Tools 35 mm Dust Seal Installation Tool

8 Install the outer wire springs.

200 Hour Service | Air Spring Removal

⚠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.

1 Remove the air spring top cap. Press down firmly when loosening the top cap.

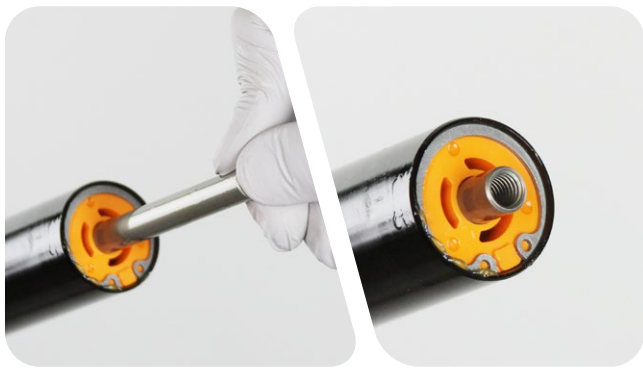
Clean the upper tube threads.

24 mm

2 Remove the top cap o-ring and discard it.

Apply grease to a new o-ring and install it.

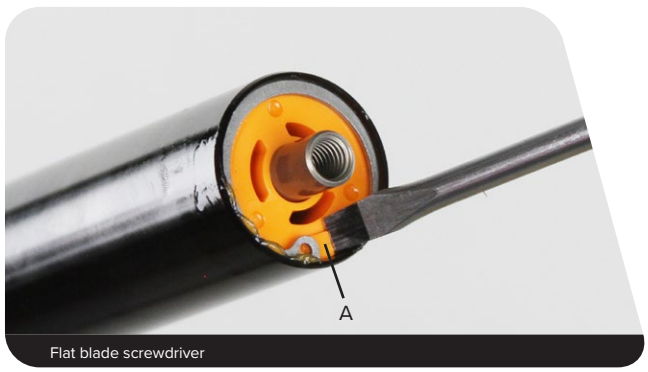
3 Push the air shaft into the upper tube.



Push the seal head tab (A) into the upper tube and under the retaining ring.

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.

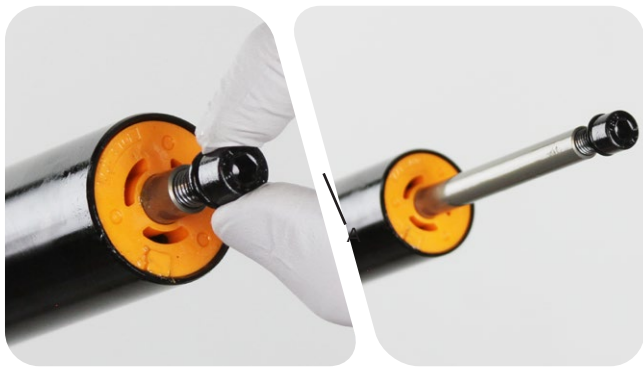


Flat blade screwdriver

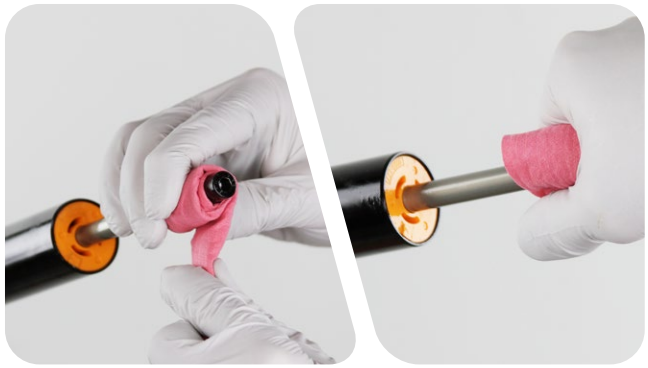
4 Remove the retaining ring. Use your finger to guide the retaining ring over the air spring shaft.


Retaining ring pliers

5 Thread the shaft bolt into the end of the air spring shaft and pull the shaft out.



6 Wrap a shop towel around the bottom bolt.



7 Push the air shaft in, then pull the air shaft out firmly to dislodge the seal head.

Remove the air spring assembly from the upper tube.

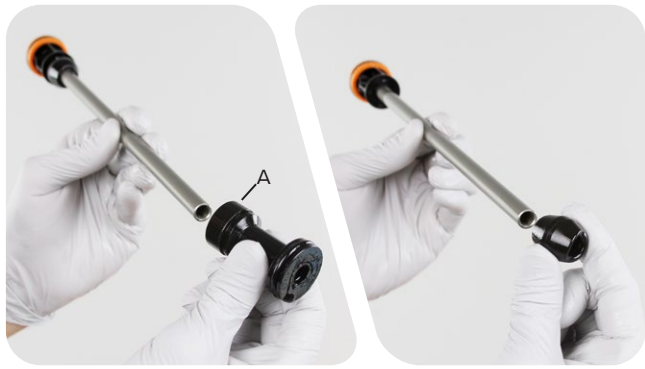
Remove the bolt.

8 Remove the base plate, wave spring, retaining washer, bumper, All-Travel spacer (A) if installed, seal head, and top out bumper.

Clean and inspect the shaft for damage.

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.



9 Remove the o-ring seal from the air piston and discard it.

Clean the air piston.

Apply grease to a new o-ring seal and install it.

NOTICE

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

10 Remove the inner and outer o-ring seals from the seal head and discard them.

Clean the seal head.

NOTICE

Do not scratch the seal head. Scratches will cause air to leak.

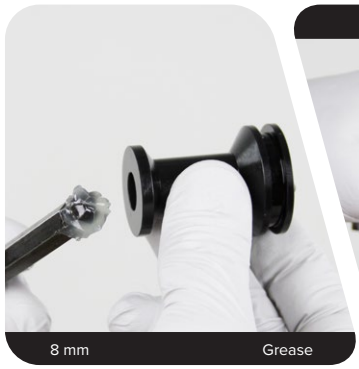

Pick

11 Apply grease to the ball end of a clean 8 mm hex wrench. Insert the ball end of the wrench into the seal head and stop just below the inner o-ring gland of the seal head.

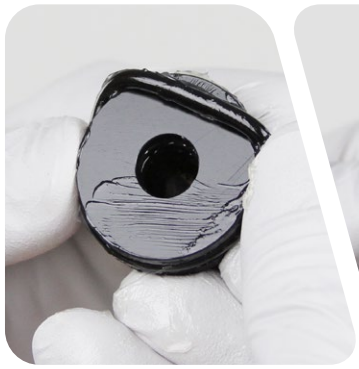
Apply grease to the new inner o-ring and insert it into the inner gland.

Apply grease to the ball end of a second clean 8 mm hex wrench and use it to push the inner o-ring into the gland using the 8 mm hex wrench to guide the o-ring into the gland.

Remove the 8 mm hex wrench.



12 Apply grease to a new outer o-ring seal and install it.

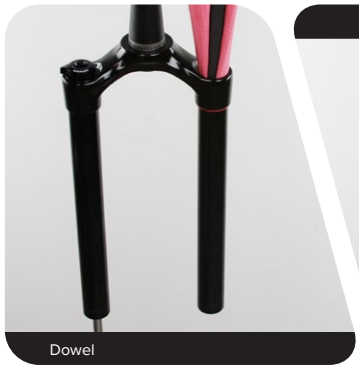


13 Clean the inside and outside of the upper tube.

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.



Air Spring Travel Change and Bottomless Tokens (optional)

To increase or decrease the travel in your RockShox 35 Gold, All-Travel spacers can be installed or removed. For example, to increase travel from a maximum of 130 mm of travel to a maximum of 150 mm of travel, the 30 mm All-Travel spacer must be removed, and a 10 mm All-Travel spacer must be installed onto the air spring assembly. Use the table and images below to determine which All-Travel spacer(s) can be used with each fork travel option.

RockShox 35 Gold is compatible with black 32 mm Bottomless Tokens which can be added to, or removed from, the air top cap to fine-tune the spring curve and bottom out feel. Use the table below to help determine the number of Bottomless Tokens that can be used with each fork travel option. If fork travel is changed from stock, it may be necessary to add or remove Bottomless Tokens.

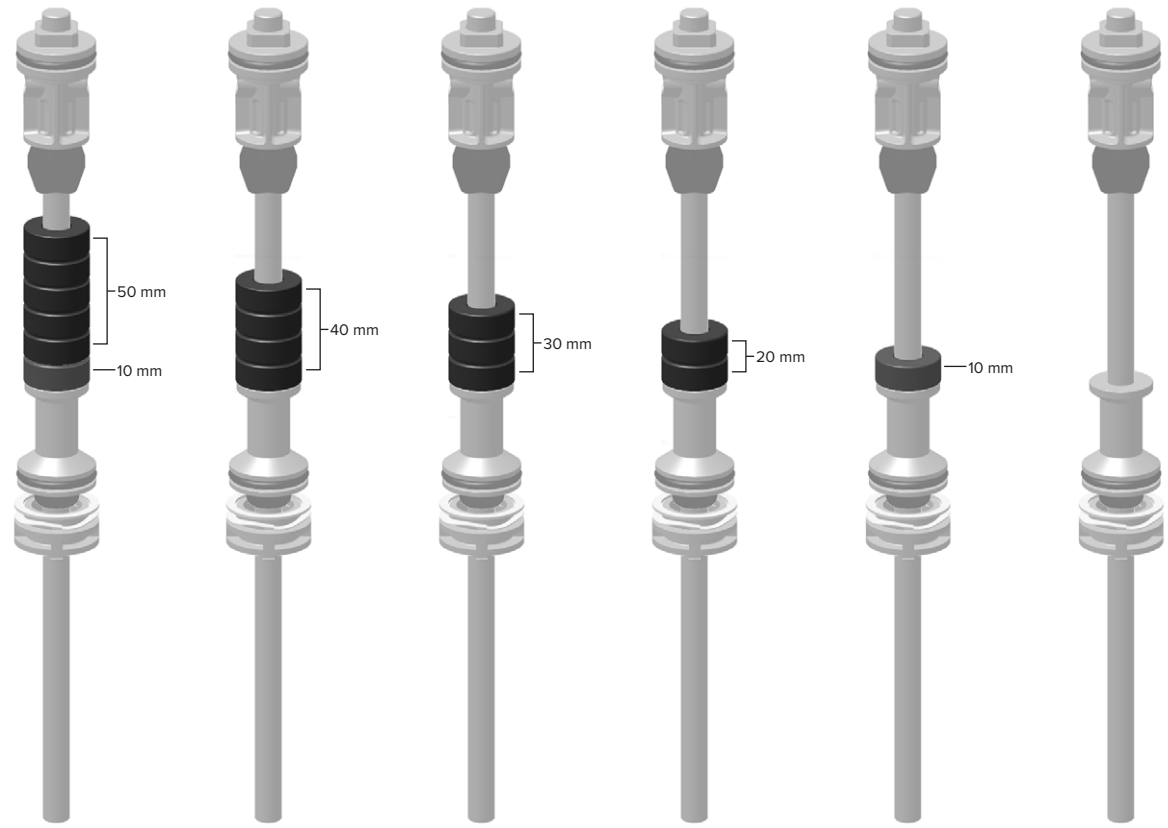
Refer to the RockShox Spare Parts Catalog at www.sram.com/service for available air spring, All-Travel spacer, and Bottomless Token kits.

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

DebonAir - Travel and Bottomless Token Tuning

27.5" Boost & 29" Boost			
Fork Travel (mm)	All-Travel Spacer (mm)	Bottomless Tokens (32 mm black) Factory Installed	Bottomless Tokens (32 mm black) Maximum
100	50 and 10	2	2
120	40	2	2
130	30	-	2
140	20	-	2
150	10	-	2
160	-	-	2

Air Spring and All-Travel Spacer Configurations



Bottomless Tokens Installation (optional)

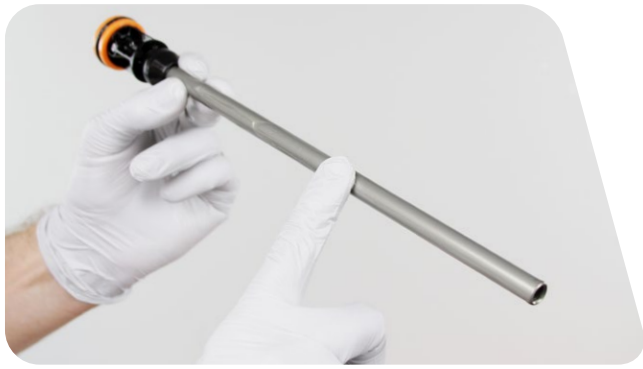
Bottomless Tokens reduce air volume in your fork and create greater ramp at the end of the fork travel. Add Tokens to tune your fork's bottomless feel. See Air Spring Travel Change and Bottomless Tokens for the maximum number of Tokens for your fork.

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

1 Apply a liberal amount of grease to the inside of the upper tube, from the end of the tube to approximately 60 mm into the tube.

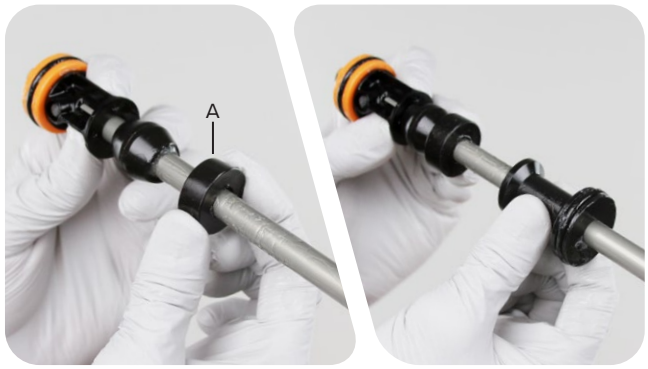
2 Install the top out bumper onto the shaft.

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



4 Install the All-Travel spacer (A) if originally equipped or added if travel is reduced, seal head, and seal head bumper.

All-Travel: Refer to page 27 for spacer configurations.

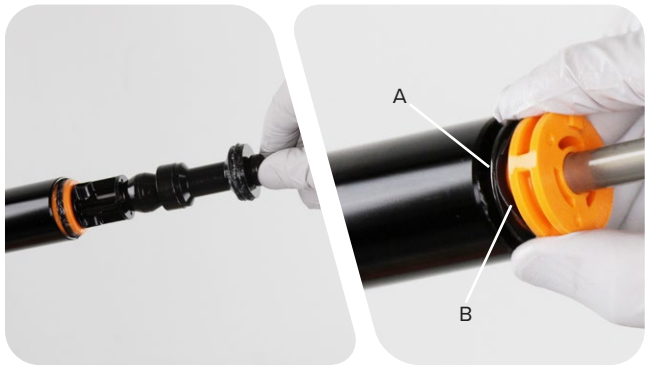


5 Install the retaining washer, a new wave spring, and the base plate, in that order, onto the air shaft.

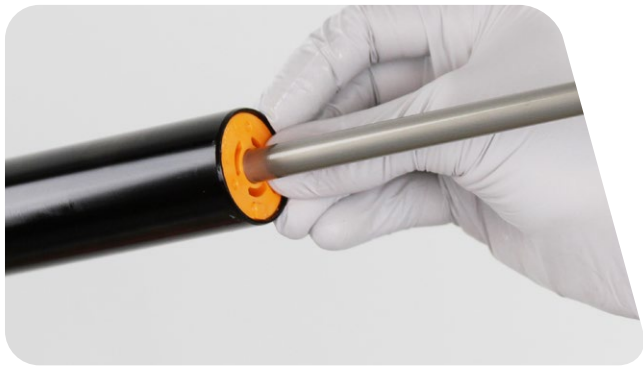
Slide all the parts to the air piston until they stop.

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

Position the (A) flat retaining washer into the upper tube, followed by the (B) wavy washer.



Press the base plate into the upper tube until it stops.



7 Push the air shaft into the base plate.

8 *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.*

Guide the retaining ring with your finger to prevent scratching the air shaft.

Place the tips of the retaining ring pliers into the eyelets of the retaining ring, then use the pliers to push the seal head into the upper tube while installing the retaining ring into the groove.

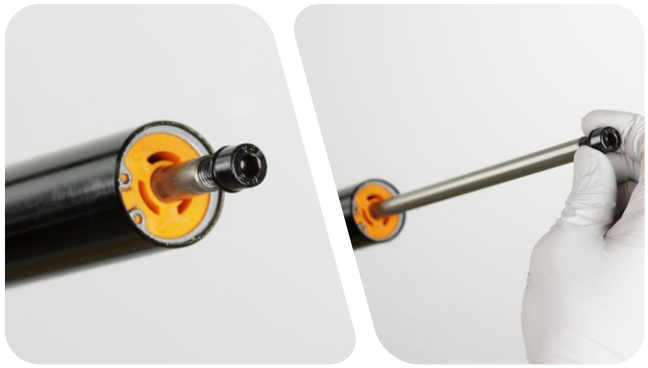
Confirm the retaining ring is properly seated in the retaining ring groove by using the retaining ring pliers to rotate the retaining ring and seal head back and forth a few times.

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

9 Thread the bottom bolt into the air shaft and pull the air shaft until it stops.



10 Inject or pour RockShox suspension oil into the air spring upper tube.


5wt RockShox Bleed Syringe 2 mL

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

200 Hour Service Air Spring Removal

⚠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.

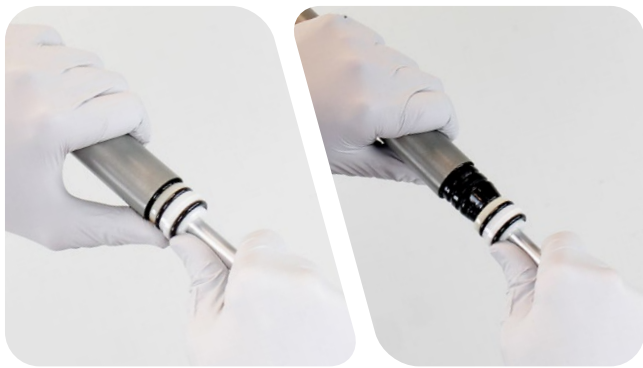
1 Unthread the air spring top cap from the upper tube. Press down firmly when loosening the top cap.

The air spring tube is attached to the top cap. Remove the top cap, air tube and air spring assembly from the upper tube.

Clean the upper tube threads.

2 Remove the top cap.

3 Remove the air spring assembly from the air tube.



4 Clean the inside and outside of the tube and check for scratches.

NOTICE

Do not scratch the inside surface of the air tube. Scratches will cause air to leak.

5 Remove the negative air seal head, All-Travel spacer (if installed; not pictured), and top out bumper. Clean the air spring shaft and inspect it for scratches.

6 Remove and discard the positive air piston o-ring.

NOTICE

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

Apply grease to a new o-ring and install it.

7 Remove the outer o-ring and inner quad ring seal from the negative air seal head and discard them.

NOTICE

Do not scratch the seal head. Scratches will cause air to leak.

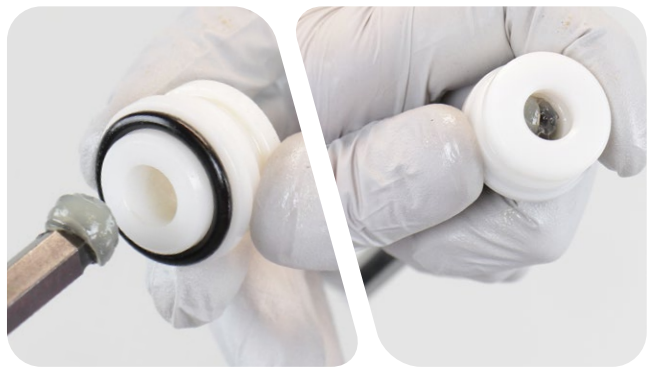
8 Apply grease to the ball end of a clean 8 mm hex wrench. Insert the ball end of the wrench into the base seal head and stop just below the inner seal gland of the seal head.

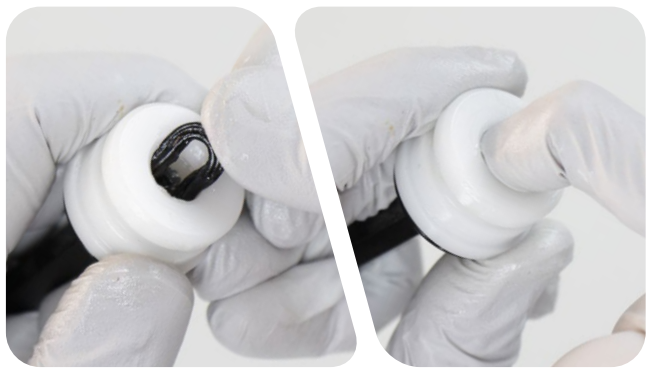
Apply grease to the new inner quad ring and insert it into the inner gland.

Push the quad ring into the inner gland with your finger and use the hex wrench to guide it into the gland until it is seated.

Remove the wrench.

Apply grease to the quad ring.





9 Apply grease to a new outer o-ring seal and install it.

Air Spring Travel Change and Bottomless Tokens (optional)

To increase or decrease the travel in your RockShox 35 Silver, All-Travel spacers can be installed or removed. For example, to increase travel from a maximum of 130 mm of travel to a maximum of 150 mm of travel, the 30 mm All-Travel spacer must be removed, and a 10 mm All-Travel spacer must be installed onto the air spring assembly. Use the table and images below to determine which All-Travel spacer(s) can be used with each fork travel option.

RockShox 35 Silver is compatible with 24 mm orange Bottomless Tokens which can be added to, or removed from, the air top cap to fine-tune the spring curve and bottom out feel. Use the table below to help determine the number of Bottomless Tokens that can be used with each fork travel option. If fork travel is changed from stock, it may be necessary to add or remove Bottomless Tokens.

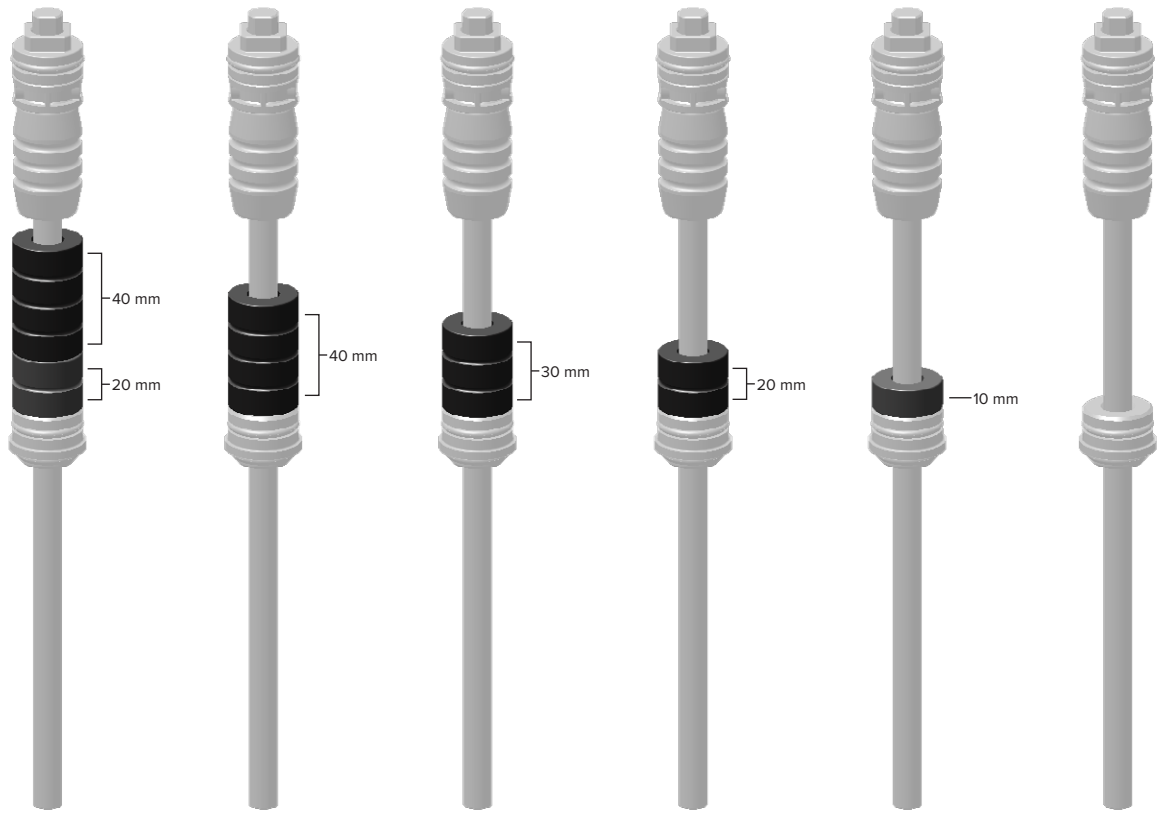
Refer to the RockShox Spare Parts Catalog at www.sram.com/service for available air spring, All-Travel spacer, and Bottomless Token kits.

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

Solo Air - Travel and Bottomless Token Tuning

27.5" Boost & 29" Boost			
Fork Travel (mm)	All-Travel Spacer (mm)	Bottomless Tokens (24 mm orange) Factory Installed	Bottomless Tokens (24 mm orange) Maximum
100	40 and 20	2	2
120	40	2	2
130	30	2	2
140	20	2	2
150	10	2	2
160	-	2	2

Air Spring and All-Travel Spacer Configurations



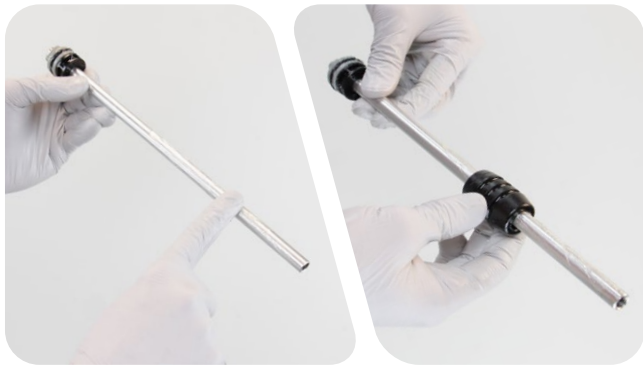
Bottomless Tokens Installation (optional)

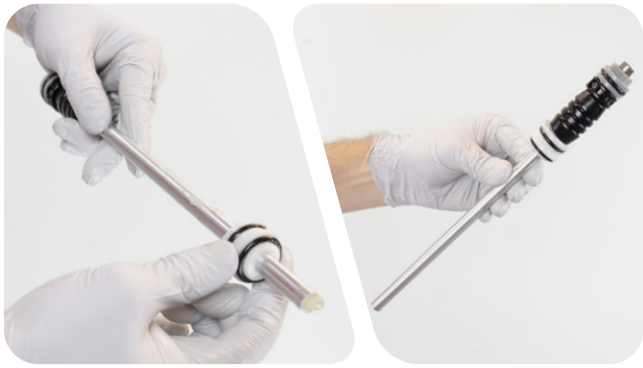
Bottomless Tokens reduce air volume in your fork and create greater ramp at the end of the fork travel. Add or remove Tokens to tune your fork's bottomless feel. See Air Spring Travel Change and Bottomless Tokens for the maximum number of Tokens for your fork.

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

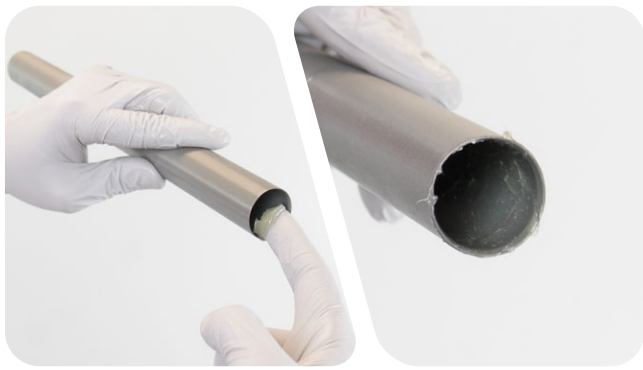
1 Apply grease to the air shaft.

Install the top out bumper, All-Travel spacer (if originally equipped, or added if travel is reduced), and the air spring seal head onto the air spring shaft.





2 Apply grease to the inside of one end of the air tube, approximately 60 mm into the tube.



3 Insert the air spring assembly into the greased end of the air tube.

Push the negative air seal head into the air tube until it is firmly seated.

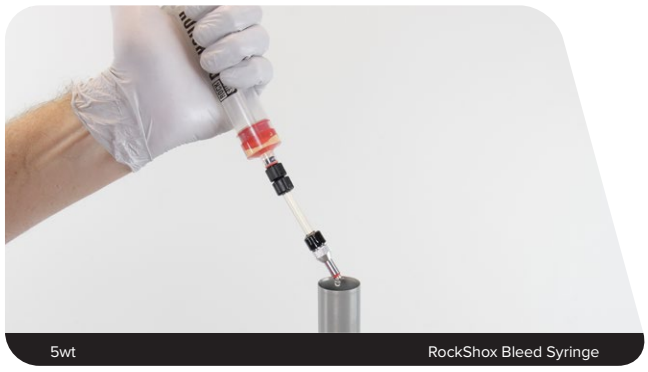
4 Remove the air top cap o-rings.

Apply grease to the new o-rings and install them.

NOTICE

Do not scratch the top cap. Scratches will cause air to leak.

5 Inject or pour 2 mL of suspension oil into the air spring tube.



5wt RockShox Bleed Syringe

6 Install the air top cap into the air tube.

7 Insert the air assembly, shaft first, into the top of the upper tube.

Guide the air shaft through the shaft guide in the bottom of the upper tube.

8 Thread the top cap into the upper tube and tighten it. Press down firmly when tightening the top cap.

200 Hour Service Continue the 200 Hour Service with Damper Service - 35 Silver.

200 Hour Service | Coil Spring Removal and Service

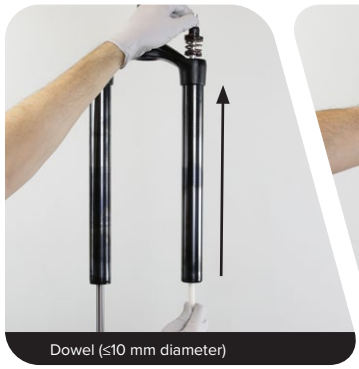
1 Unthread the top cap. Press down firmly when loosening the top cap.

Remove the top cap.

2 Remove and clean the preload spacer(s) if installed.

3 Remove the coil spring.

4 Remove the spring shaft assembly and clean it.


Dowel (≤10 mm diameter)

5 Clean the coil spring, and the inside and outside of the upper tube.

6 Cut and remove the spring isolators from the spring.

⚠WARNING

To avoid injury, cut in the direction away from your body keeping fingers out of the cutting line.

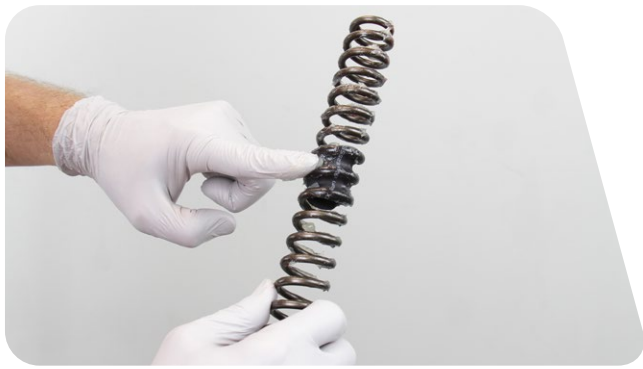

Box cutter

7 Install the new spring isolators. Position a new spring isolator onto the spring. Use a heat gun to apply heat to the isolator evenly side to side, while slowly rotating the spring until the isolator shrinks onto the spring uniformly.

⚠WARNING

To avoid skin burns, allow the spring and spring isolator to cool before continuing.

8 Apply a liberal amount of grease to the spring and spring isolators.



9 Remove the o-ring from the top cap.

Apply grease to the new o-ring and install it.

1 Install the spring shaft assembly.

2 Insert the coil spring into the upper tube.

3 Apply grease to each side of the preload spacer(s), if removed during disassembly, and install onto the top of the coil spring.

4 Install the top cap and thread it in with a 24 mm socket wrench. Push down firmly to thread the top cap into the upper tube.

Tighten the top cap. Press down firmly when tightening the top cap.

200 Hour Service Continue the 200 Hour Service with Damper Service - 35 Silver.

200 Hour Service | Damper Removal

1 **RL**: Turn the compression adjuster knob counter clockwise to the full open position.

Remove the retaining screw and remove the compression damper adjuster knob.

2 **RL R:** Loosen the set screw and remove the cable stop collar.

Remove the retaining screw and remove the remote spool.

3 Unthread the compression damper top cap. Press down firmly when loosening the top cap.

Remove the compression damper by pulling up firmly and slowly, while gently rotating the damper in a circular motion.

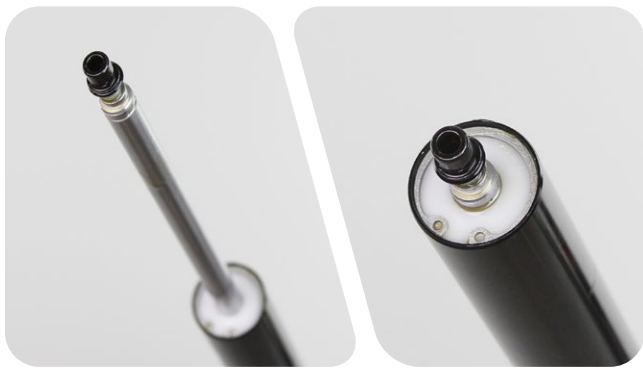
NOTICE

Do not force the damper out of the upper tube if there is resistance. This can cause separation of the piston from the damper tube.

4 Remove the fork from the work stand and pour the suspension oil into an oil pan.

5 Clamp the fork into the work stand.

Thread the bottom bolt onto the rebound damper shaft and push the shaft into the upper tube.



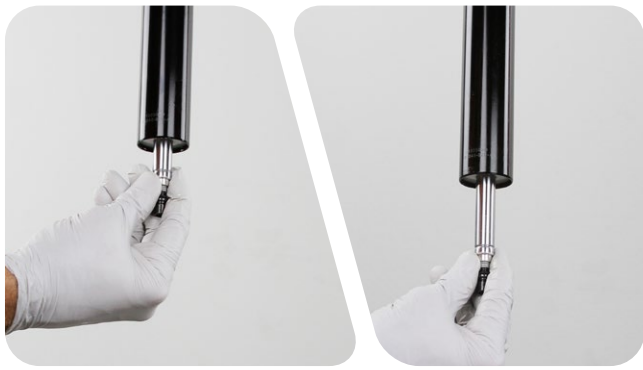
6 Remove the retaining ring. Use your finger to guide the retaining ring over the rebound shaft.

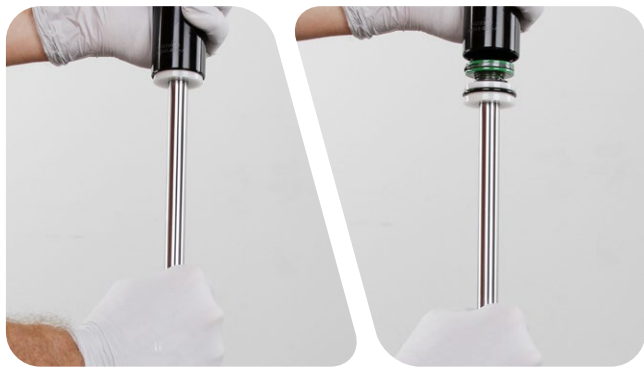
NOTICE

Do not scratch the rebound damper shaft. Scratches will allow oil to leak into the lower leg, resulting in reduced damper performance and potential damage to the fork.


Retaining ring pliers

7 Pull the rebound shaft out and remove the rebound damper and seal head.





8 Clean the inside and outside of the upper tube.

Inspect the inside and outside of the upper tube for scratches.

NOTICE

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

1 Remove the compression damper o-rings and discard them.

Apply grease to new o-rings and install them.

2 Remove the bottom bolt.

Remove the rebound damper seal head.

Clean the rebound damper shaft and inspect the shaft for scratches.

NOTICE

Scratches on the shaft can cause oil to leak. If a scratch is visible, the rebound damper may need to be replaced.

3 Remove the inner and outer seal head o-rings and discard them.
Apply grease to the new o-rings and install them.

4 Remove the glide ring and discard it.
Install a new glide ring.

5 Install the seal head onto the rebound damper shaft.

1 Insert the rebound damper piston and seal head into the upper tube.

Push the seal head into the upper tube until the retaining ring groove is visible.

2 Push the rebound damper into the upper tube and thread a bottom bolt into the shaft.

3 *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.*

Install the retaining ring into the upper tube groove.

NOTICE

Do not scratch the rebound damper shaft. Scratches will allow oil to leak into the lower leg, resulting in reduced damping performance.

⚠CAUTION

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.

Retaining ring pliers

4 Pull the rebound damper shaft out to the fully extended position and remove the bottom bolt.

1 Pour RockShox suspension oil into the upper tube.

NOTICE

Suspension oil volume is critical. Too much oil reduces available travel and can damage the fork. Too little suspension oil decreases damping performance.

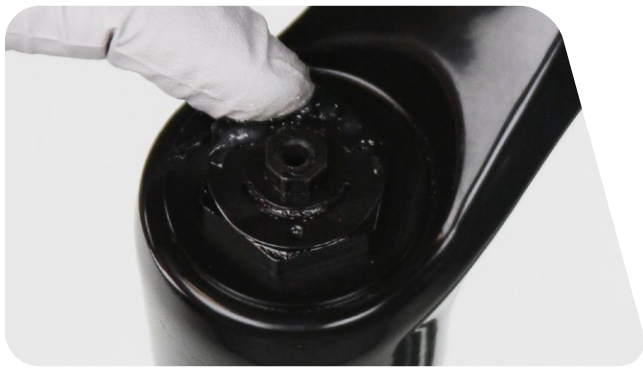
2 **RL:** Use the compression adjuster knob to open the valve (A). Rotate the knob counter clockwise until it stops.

A closed compression valve will restrict oil flow during installation.

3 Insert the compression damper into the upper tube. Press down slowly and rotate in a circular motion until the damper is installed.

4 Thread the top cap into the upper tube and tighten it. Press down firmly when tightening the top cap.

5 **RL:** Apply grease to the top cap detents and detent spring.



6 **RL:** Install the adjuster knob with the tab in the 7-8 o'clock, unlocked position.

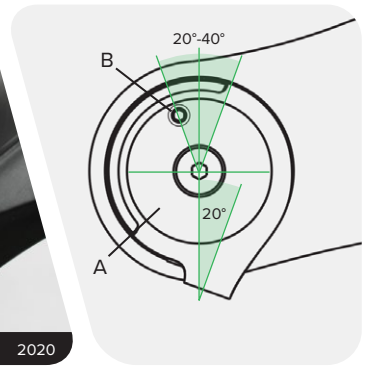
Install and tighten the retaining screw.

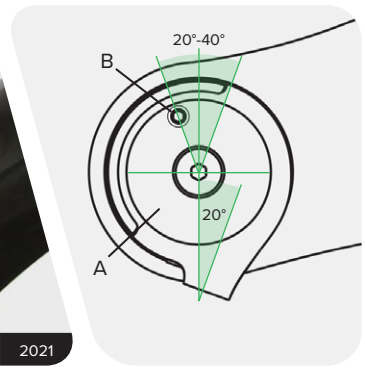
7 **RL R:** Install the cable stop collar with the housing guide in the forward position 20 degrees from center.

Tighten the set screw finger tight, or to the specified torque. Confirm the cable stop does not feel loose or have any free play.

NOTICE

To avoid permanent damage to the set screw threads, do not over-tighten the set screw.





Install the remote spool (A) onto the hex adjuster with the cable set screw (B) 20-40 degrees from the edge of the cable stop groove, towards the front of the crown.

Install and tighten the retaining screw.

Consult the applicable remote user manual at www.sram.com/en/rockshox/products/remotes for cable and remote installation instructions.

1 **TK**: Turn the compression adjuster knob counter clockwise to the full open position.

Remove the retaining screw and remove the compression damper adjuster knob.

2 **TK R:** Loosen the set screw and remove the cable stop collar.

Remove the retaining screw and remove the remote spool.

3 **TK / TK R:** Unthread the compression damper top cap. Press down firmly when loosening the top cap.

Remove the compression damper by pulling up firmly and slowly, while gently rotating the damper in a circular motion.

NOTICE

Do not force the damper out of the upper tube if there is resistance. This can cause separation of the piston from the damper tube.

24 mm

R: Unthread and remove the top cap/rebound oil spacer assembly. Do not remove the oil spacer from the top cap.


R

4 Remove the fork from the work stand and pour the suspension oil into an oil pan.

5 Clamp the fork into the work stand with the steerer tube oriented downward.

Push the rebound damper shaft into the upper tube and through the seal head. The damper will slide through the upper tube and exit through the crown into your hand. Do not allow the shaft to scrape the upper tube threads.

Clean the rebound damper shaft and inspect it for scratches.

NOTICE

Scratches on the shaft can cause oil to leak. If a scratch is visible the rebound damper may need to be replaced.

6 Carefully remove the seal head retainer with a flat blade screwdriver.

NOTICE

Do not damage the retainer during removal. Damage will prevent it from staying attached when reinstalled. If damaged during removal, the retainer must be replaced.

Flat blade screwdriver

7 Use a screwdriver handle to firmly push the seal head into the upper tube.

Screwdriver Handle

8 Use a long dowel (15-17 mm diameter) to push the seal head out of the upper tube through the crown.

Dowel

9 Clean the inside and outside of the upper tube.

Inspect the inside and outside of the upper tube for scratches.

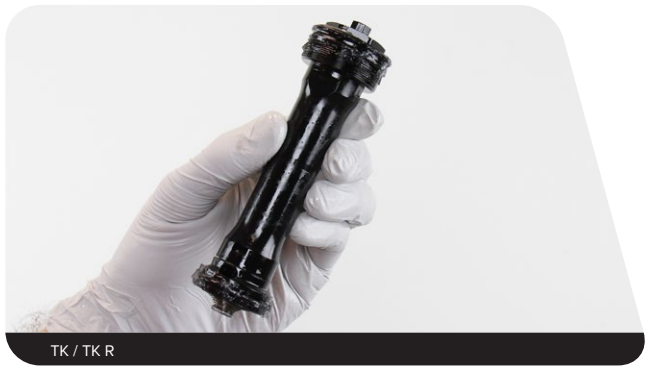
NOTICE

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

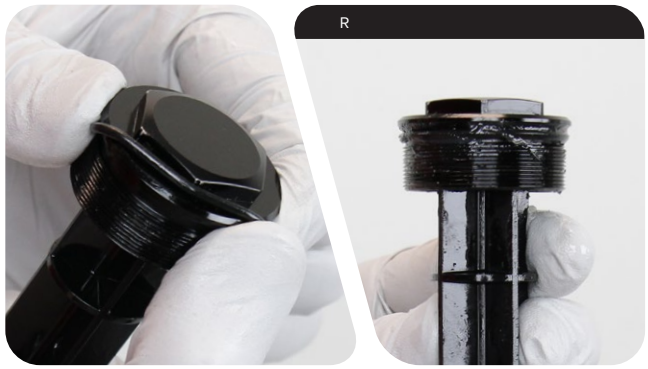
1 **TK / TK R:** Remove the compression damper o-rings and discard them.

R: Remove the top cap o-ring and discard it.

Apply grease to new o-ring(s) and install them.



TK / TK R



R

2 Remove the rebound damper piston glide ring and discard it.

Install a new glide ring.

3 Remove the o-rings from the seal head.

NOTICE

Do not scratch the seal head. Scratches will cause air to leak.

Pick

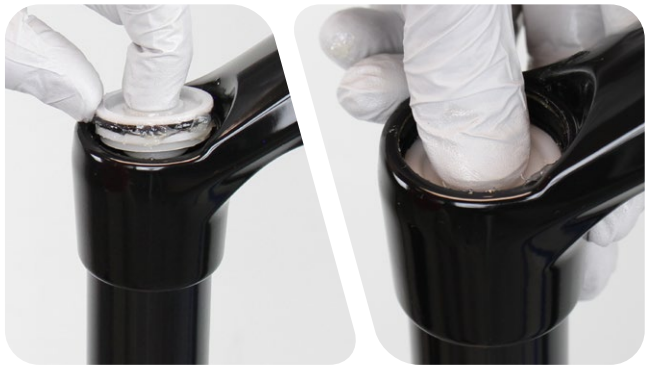
4 Install new o-rings onto the seal head.

Apply grease to the new o-rings and seal head.

1 Insert the seal head into the upper tube through the crown, and push it down just below the upper tube threads. Use a dowel if needed.

NOTICE

Use care to avoid damaging the outer o-ring.



2 Push the seal head down to the end of the upper tube.

3 While pushing the dowel down firmly against the seal head to secure it, use the palm of you hand to press the retainer onto the end of the seal head until it snaps into place.


Dowel (15-17 mm diameter)

Confirm the retainer is installed securely.

4 Insert a long thin dowel (≤10 mm diameter) through the seal head into the upper tube, and through the crown.

The dowel will be used to guide the rebound damper shaft through the seal head as the damper is pushed into the upper tube.

Place the end of the rebound damper onto the end of the dowel and insert the rebound damper shaft into the upper tube.


Dowel (≤10 mm diameter)

5 Push the rebound damper piston into the upper tube until the piston is just below the upper tube threads.

Hold the dowel in place and apply light pressure to the rebound damper as it is being inserted into the upper tube.

Use a second dowel (15-17 mm diameter) to push the damper into the upper tube while guiding it through the seal head with the thin dowel.

Push the damper into the upper tube until it stops.

1 Pour RockShox suspension oil into the upper tube.

NOTICE

Suspension oil volume is critical. Too much oil reduces available travel and can damage the fork. Too little suspension oil decreases damping performance.

2 **TK / TK R:** Apply a liberal amount of grease to the compression piston o-ring.

3 **TK / TK R:** Insert the compression damper into the upper tube. Press down slowly and rotate in a circular motion until the damper is installed.

R: Install the top cap/rebound oil spacer assembly into the upper tube.

4 Thread the top cap into the upper tube and tighten it. Press down firmly when tightening the top cap.

R: Proceed to Lower Leg Assembly.

5 **TK:** Install the adjuster knob with the tab in the 7-8 o'clock, unlocked position.

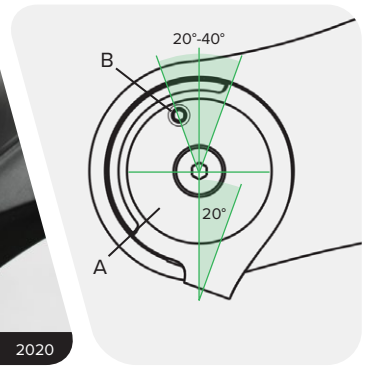
Install and tighten the retaining screw.

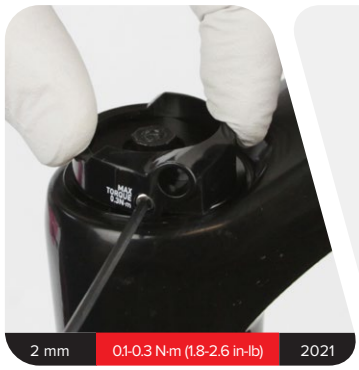
6 **TK R:** Install the cable stop collar with the housing guide in the forward position 20 degrees from center.

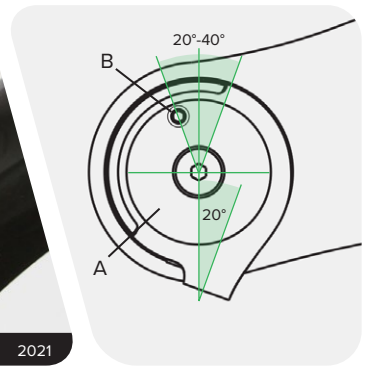
Tighten the set screw finger tight, or to the specified torque. Confirm the cable stop does not feel loose or have any free play.

NOTICE

To avoid permanent damage to the set screw threads, do not over-tighten the set screw.







Install the remote spool (A) onto the hex adjuster with the cable set screw (B) 20-40 degrees from the edge of the cable stop groove, towards the front of the crown.

Install and tighten the retaining screw.Consult the applicable remote user manual at www.sram.com/en/rockshox/products/remotes for cable and remote installation instructions.

Consult the applicable remote user manual at www.sram.com/en/rockshox/products/remotes for cable and remote installation instructions.

1 Clean the upper tubes.

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.

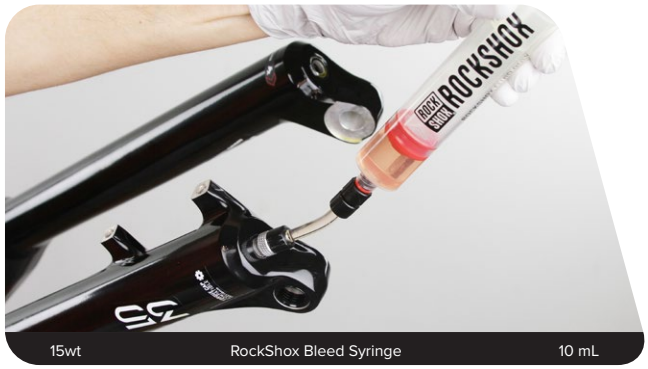
The inside bottom of the lower leg should not contact the spring or damper shafts. A gap between the shaft ends and the lower leg bolt holes should be visible.

4 Position the fork at an angle with the bolt holes oriented upward.

Inject RockShox suspension oil into each lower leg through the bottom bolt holes.

NOTICE

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



5 Slide the lower leg assembly toward the crown until it stops.

The spring and damper shafts should be visible through the bottom bolt holes.

Verify each 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 **200 Hour Service** Remove the old crush washer retainer and crush washer from each bottom bolt.

Compress and hold the crush washer retainer with needle nose pliers and unthread it, and the crush washer, from the bolt by turning the bolt counter-clockwise.

Install a new crush washer retainer and crush washer onto each bolt.

NOTICE

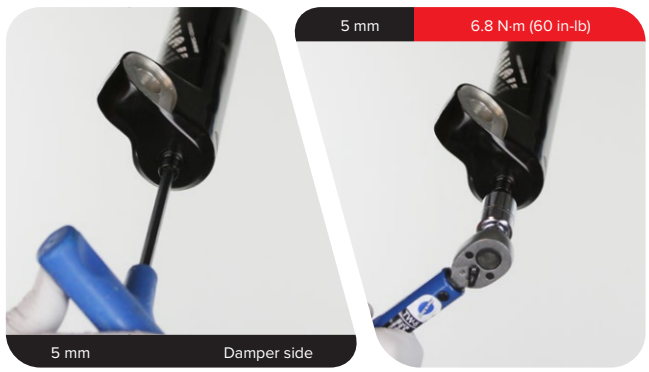
Do not damage the bolt threads.

Do not reuse crush washers or crush washer retainers. Dirty or damaged crush washers can cause oil to leak from the fork.

7 Install the solid bottom bolt into the spring side shaft.

Install the hollow bolt into the damper side shaft.

Tighten each bolt.



8 Apply a small amount of grease to the end of the rebound adjuster hex and around the outside of the damper bottom bolt. Install the rebound adjuster knob onto the rebound damper bottom bolt.

Press the knob firmly onto the bolt until it clicks into place.

Refer to your pre-service recorded rebound setting to adjust the rebound damping.

9 **Air Spring Forks:** 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.

Compressing 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.

Shock pump

Install the air valve cap.

10 Clean the entire fork.

This concludes the service of your RockShox suspension fork.

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