ROCKSHOX

JUDY | 30 | RECON

2018+
JUDY, 30, RECON



SERVICE MANUAL

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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!

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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/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.

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 isopropyl alcohol or RockShox Suspension Cleaner 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.

⚠WARNING - CRASH HAZARD

DO NOT use vinegar of any type to clean any part of a RockShox suspension product. Vinegar can cause permanent damage to parts which can, over time, result in product structural failure, serious injury, and possibly death.



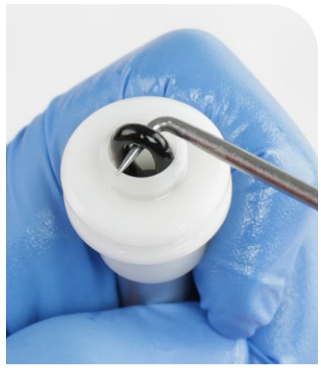


Replace the o-ring or seal with a new one from the service kit. Use your fingers or a pick to pierce and remove the old seal or o-ring.

Apply Liquid-O-Ring PM600 or SRAM Butter 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.





Specified torque value in N·m (in-lb)

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-RCNS-RL-D1**

FS = Product Type - **Front Suspension/Shock**
RCNS = Platform/Series - **Recon Silver**
RL = Model - **Rebound Lockout**
D1 = Version - (**D** - fourth generation, **1** - first 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.

Warranty and Trademark

For SRAM Warranty information, visit: www.sram.com/warranty.

For SRAM Trademark information, visit: www.sram.com/website-terms-of-use.

Parts, Tools, and Supplies

Parts

- RockShox Judy, 30, or Recon 200 Hour Service Kit

Safety and Protection Supplies

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

Lubricants and Fluids

- Isopropyl alcohol or RockShox Suspension Cleaner
- Liquid-O-Ring PM600
- RockShox 5wt Suspension Oil
- RockShox 15wt Suspension Oil
- SRAM Butter grease

RockShox Tools

- RockShox Bleed Syringe
- RockShox Dust Seal Installation Tool (28 mm/30 mm): Judy / 30
- RockShox Dust Seal Installation Tool (32 mm): Recon non-Boost
- RockShox Dust Seal Installation Tool Flangeless (32 mm) or RockShox x Abbey Bike Tools Flangeless Dust Seal Installation Tool: Recon Boost
- RockShox Shock Pump

Bicycle Tools

- Bicycle work stand
- Downhill tire lever

Common Tools

- Dowel - plastic or wood (≤10 mm diameter)
- Dowel - plastic or wood (15 mm - 17 mm diameter)
- Flat blade screwdriver
- Hex bit sockets: 2, 2.5, 5 mm
- Hex wrenches: 2, 2.5, 5, 8, 10 mm
- Internal retaining ring pliers - large
- Pick
- Rubber or plastic mallet
- Socket: 24 mm or RockShox x Abbey Bike Tools 24 mm Top Cap 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.

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)
Pinch bolt - remote cable stop clamp 2018 Recon Gold RL R	2 mm hex bit socket	0.6 - 1.1 N•m (6 - 10 in-lb)
Retaining screw - coil spring preload adjuster knob, compression knob, and remote spool	2.5 mm hex bit socket	1.4 N•m (12 in-lb)
Set screw - remote cable stop collar 2018-2019 Judy Gold RL R 2019 30 Gold RL R 2019 Recon Gold RL R	2 mm hex bit socket	0.25 - 0.6 N•m (2.2 - 5.3 in-lb)
Set screw - remote cable stop collar 2020+ Judy Gold RL R 2020+ Judy Silver TK R 2020 30 Gold RL R 2020 30 Silver TK R 2020+ Recon Gold RL R 2020+ Recon RL R 2020+ Recon TK R	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	12.4 N•m (110 in-lb)

Oil Volume and Lubricant - 2018

			Damper					Spring				
				Upper Tube			Lower Leg		Upper Tube		Lower Leg	
Fork	**Model**	**Travel (mm)**	**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)**
Judy Gold	RL 27.5" B† RL 29" B†	80-120	Motion Control	5	80-85	102	15	6	Solo Air	5‡	2	15	6
Judy Silver	TK 27.5" B† TK 29" B†		TurnKey			122							
30 Gold	RL 26"	80-100	Motion Control	5	80-85	85	15	5	Solo Air	5‡	2	15	10
	RL 27.5" RL 29"	80-120				102							
30 Silver	TK 26"	80-120	TurnKey	5	80-85	100	15	5	Solo Air	5‡	2	15	10
	TK 27.5"					122			Coil	PM600 or SRAM Butter	Grease Coil Spring		
									Solo Air	5‡	2		
	TK 29"	80-100							Coil	PM600 or SRAM Butter	Grease Coil Spring		
									Solo Air	5‡	2		
Recon Gold	RL 27.5"	80-130	Motion Control	5	80-85	130	15	6	Solo Air	5‡	2	15	6
	RL 27.5" B†	80-150											
	RL 29"	80-130											
	RL 29" B†	80-140											
Recon	RL 27.5" RL 29"	80-120	Motion Control	5	80-85	118	15	6	Solo Air	5‡	2	15	6
		130-140				150							
	RL 27.5" B†	80-150				140							
	RL 29" B†	80-140											
	TK 27.5" TK 29"	80-100	TurnKey			118			Coil	PM600 or SRAM Butter	Grease Coil Spring		9

*Oil Height - Measure from the top of the crown (above the upper tube) down to the oil.
†Boost (15 mm x 110 mm)
‡Apply grease (PM600 or SRAM Butter) to the air piston in addition to suspension oil.

Oil Volume and Lubricant - 2019

			Damper					Spring				
				Upper Tube			Lower Leg		Upper Tube		Lower Leg	
Fork	Model	Travel (mm)	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)
Judy Gold	RL 27.5" B† RL 29" B†	80-120	Motion Control	5	80-85	102	15	6	Solo Air	5‡	2	15	6
Judy Silver	TK 27.5" B† TK 29" B†		TurnKey			122							
30 Gold	RL 26"	80-100	Motion Control	5	80-85	85	15	5	Solo Air	5‡	2	15	10
	RL 27.5" RL 29"	80-120				102							
30 Silver	TK 26"	80-120	TurnKey	5	80-85	100	15	5	Solo Air	5‡	2	15	10
	TK 27.5"					122			Coil	PM600 or SRAM Butter	Grease Coil Spring		
									Solo Air	5‡	2		
	TK 29"	80-100							Coil	PM600 or SRAM Butter	Grease Coil Spring		
									Solo Air	5‡	2		
Recon Gold	RL 27.5" RL 29"	80-130	Motion Control	5	80-85	130	15	6	Solo Air	5‡	2	15	6
Recon	RL 27.5" RL 29"	80-120	Motion Control	5	80-85	118	15	6	Solo Air	5‡	2	15	6
		130-140				150							
	RL 27.5" B†	80-150				140							
	RL 29" B†	80-140											
	TK 27.5" TK 29"	80-100	TurnKey			118			Coil	PM600 or SRAM Butter	Grease Coil Spring		9

*Oil Height - Measure from the top of the crown (above the upper tube) down to the oil.
†Boost (15 mm x 110 mm)
‡Apply grease (PM600 or SRAM Butter) to the air piston in addition to suspension oil.

Oil Volume and Lubricant - 2020

			Damper					Spring				
				Upper Tube			Lower Leg		Upper Tube		Lower Leg	
Fork	**Model**	**Travel (mm)**	**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)**
Judy Gold	RL 27.5" B† RL 29" B†	80-120	Motion Control	5	80-85	102	15	6	Solo Air	5‡	2	15	6
Judy Silver	TK 27.5" B† TK 29" B†		TurnKey			122							
30 Gold	RL 26"	80-100	Motion Control	5	80-85	85	15	5	Solo Air	5‡	2	15	10
	RL 27.5" RL 29"	80-120				102							
30 Silver	TK 26"	80-120	TurnKey	5	80-85	100	15	5	Solo Air	5‡	2	15	10
	TK 27.5"					122			Coil	PM600 or SRAM Butter	Grease Coil Spring		
									Solo Air	5‡	2		
	TK 29"	80-100				123			Coil	PM600 or SRAM Butter	Grease Coil Spring		
									Solo Air	5‡	2		
Recon Gold	RL 27.5" RL 27.5" B† RL 29" RL 29" B†	80-130	Motion Control	5	80-85	130	15	6	Solo Air	5‡	2	15	6
Recon	RL 27.5" RL 29"	80-120	Motion Control	5	80-85	118	15	6	Solo Air	5‡	2	15	6
		130-140				150							
	RL 27.5" B† RL 29" B†	80-150			91-96	140							
	TK 27.5" TK 29"	80-100	TurnKey		80-85	118			Coil	PM600 or SRAM Butter	Grease Coil Spring		9
	TK 27.5" B† TK 29" B†	80-150			86-91	140							

*Oil Height - Measure from the top of the crown (above the upper tube) down to the oil.
†Boost (15 mm x 110 mm)
‡Apply grease (PM600 or SRAM Butter) to the air piston in addition to suspension oil.

Oil Volume and Lubricant - 2021

			Damper						Spring				
				Upper Tube			Lower Leg			Upper Tube		Lower Leg	
Fork	Model	Travel (mm)	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)
Judy Gold	RL 26"	80-100	Motion Control	5	80-85	85	15	5	Solo Air	5‡	2	15	10
	RL 27.5" RL 29"	80-120				102							6
	RL 27.5" B† RL 29" B†							6					
Judy Silver	TK 26"	80-100	TurnKey			100		5					10
	TK 27.5"	80-120				123							
	TK 29"	80-100				122							
	TK 27.5"	80-120				123			Coil	PM600 or SRAM Butter	Grease Coil Spring		
	TK 29"	80-100				122							
	TK 27.5" B† TK 29" B†	80-130				122		6	Solo Air	5‡	2		6
Judy	TK 27.5"	80-120	TurnKey			143	-	-	Coil	PM600 or SRAM Butter	Grease Coil Spring	-	-
	TK 29"	80-100											
Recon Gold	RL 27.5" B† RL 29" B†	80-150	Motion Control	5	80-85	130	15	6	DebonAir	5‡	2	15	6
Recon Silver	RL 27.5" RL 29"	100-120	Motion Control	5	80-85	118	15	6	Solo Air	5‡	2	15	6
		130-140				150							
	RL 27.5" B† RL 29" B†	100-150			91-96	140							
	TK 27.5" TK 29"	80-100	TurnKey		80-85	118			Coil	PM600 or SRAM Butter	Grease Coil Spring		9
	TK 27.5" B† TK 29" B†	80-120			86-91	140							

*Oil Height - Measure from the top of the crown (above the upper tube) down to the oil.
†Boost (15 mm x 110 mm)
‡Apply grease (PM600 or SRAM Butter) to the air piston in addition to suspension oil.

Oil Volume and Lubricant - 2022

			Damper						Spring				
				Upper Tube			Lower Leg			Upper Tube		Lower Leg	
Fork	Model	Travel (mm)	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)
Judy Gold	RL 26"	80-100	Motion Control	5	80-85	85	15	5	Solo Air	5‡	2	15	10
	RL 27.5" RL 29"	80-120				102							6
	RL 27.5" B† RL 29" B†							6					
Judy Silver	TK 26"	80-100	TurnKey			100		5					10
	TK 27.5"	80-120				123							
	TK 29"	80-100				122							
	TK 27.5"	80-120				123			Coil	PM600 or SRAM Butter	Grease Coil Spring		
	TK 29"	80-100				122							
	TK 27.5" B† TK 29" B†	80-130				122		6	Solo Air	5‡	2		6
Judy	TK 27.5"	80-120	TurnKey			143	-	-	Coil	PM600 or SRAM Butter	Grease Coil Spring	-	-
	TK 29"	80-100											
Recon Gold	RL 27.5" B† RL 29" B†	80-150	Motion Control	5	80-85	130	15	6	DebonAir	5‡	2	15	6
Recon Silver	RL 27.5" RL 29"	100-120	Motion Control	5	80-85	118	15	6	Solo Air	5‡	2	15	6
		130-140				150							
	RL 27.5" B† RL 29" B†	100-150			91-96	140							
	TK 27.5" TK 29"	80-100	TurnKey		80-85	118			Coil	PM600 or SRAM Butter	Grease Coil Spring		9
	TK 27.5" B† TK 29" B†	80-120			86-91	140							

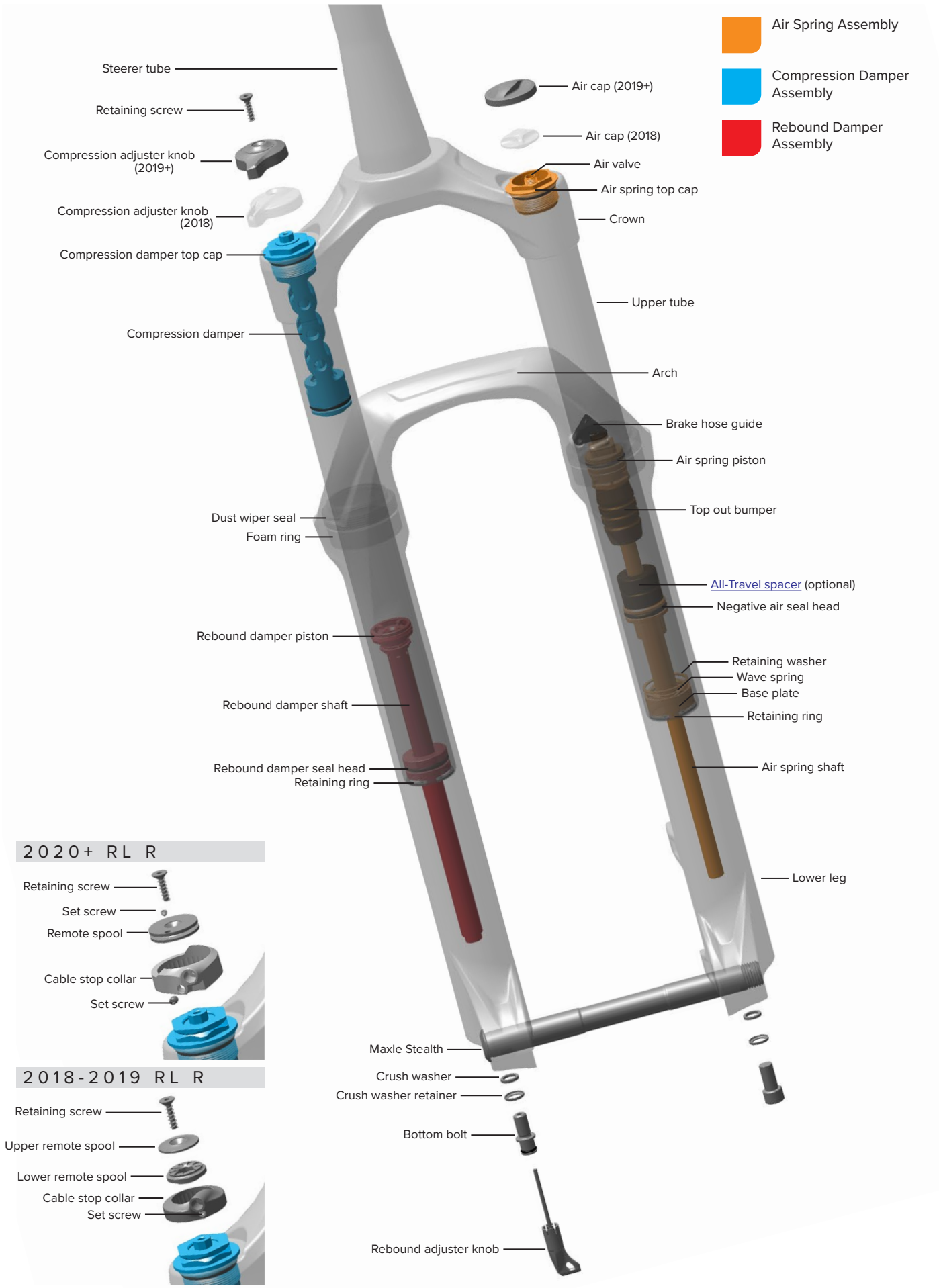
*Oil Height - Measure from the top of the crown (above the upper tube) down to the oil.
†Boost (15 mm x 110 mm)
‡Apply grease (PM600 or SRAM Butter) to the air piston in addition to suspension oil.

Oil Volume and Lubricant - 2023+

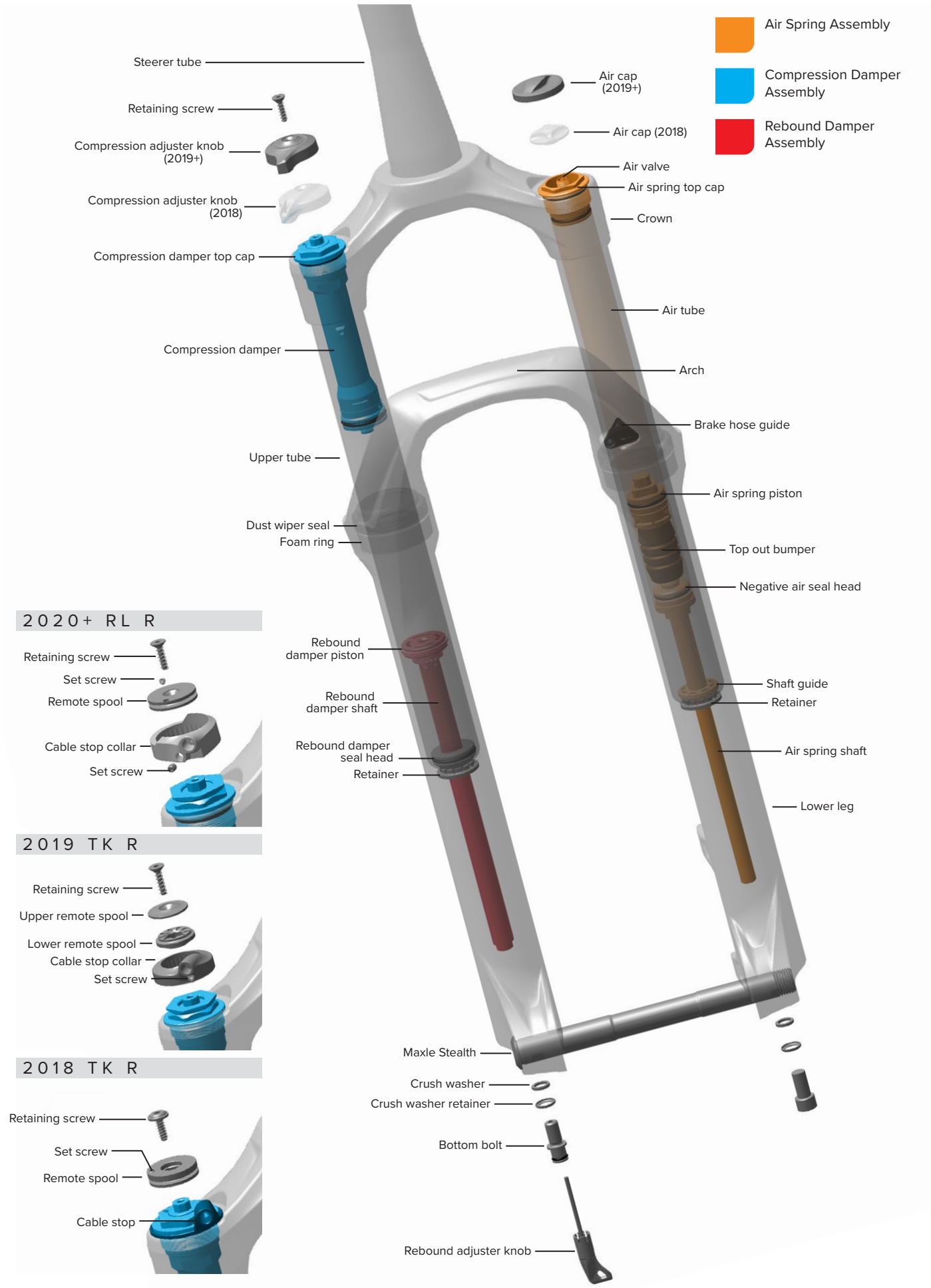
			Damper						Spring				
				Upper Tube			Lower Leg			Upper Tube		Lower Leg	
Fork	**Model**	**Travel (mm)**	**Damper**	**Oil Weight (wt)**	**Oil Height* (mm)**	**Volume (mL)**	**Oil Weight (wt)**	**Volume (mL)**	**Spring**	**Oil Weight‡ (wt) and/or Grease**	**Volume (mL)**	**Oil Weight (wt)**	**Volume (mL)**
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	RL 27.5" RL 29"	80-120				102							6
	RL 27.5" B† RL 29" B†							6					
Judy Silver	TK 26"	80-100	TurnKey			100		5					10
	TK 27.5"	80-120				123							
	TK 29"	80-100				122							
	TK 27.5"	80-120				123			Coil	PM600 or SRAM Butter	Grease Coil Spring		
	TK 29"	80-100				122							
	TK 27.5" B† TK 29" B†	80-130				122		6	Solo Air	5‡	2		6
Judy	TK 27.5"	80-120	TurnKey			143	-	-	Coil	PM600 or SRAM Butter	Grease Coil Spring	-	-
	TK 29"	80-100											
Recon Gold	RL 27.5" B† RL 29" B†	80-150	Motion Control	5	80-85	130	15	6	DebonAir	5‡	2	15	6
Recon Silver	RL 27.5" RL 29"	100-120	Motion Control	5	80-85	118	15	6	Solo Air	5‡	2	15	6
		130-140				150							
	RL 27.5" B† RL 29" B†	100-150			91-96	140							
	TK 27.5" TK 29"	80-100	TurnKey		80-85	118			Coil	PM600 or SRAM Butter	Grease Coil Spring		9
	TK 27.5" B† TK 29" B†	80-120			86-91	140							

*Oil Height - Measure from the top of the crown (above the upper tube) down to the oil.
†Boost (15 mm x 110 mm)
‡Apply grease (PM600 or SRAM Butter) to the air piston in addition to suspension oil.

Exploded View - 2018+ Judy Gold RL - Solo Air



Exploded View - 2018+ Judy Silver TK - Solo Air

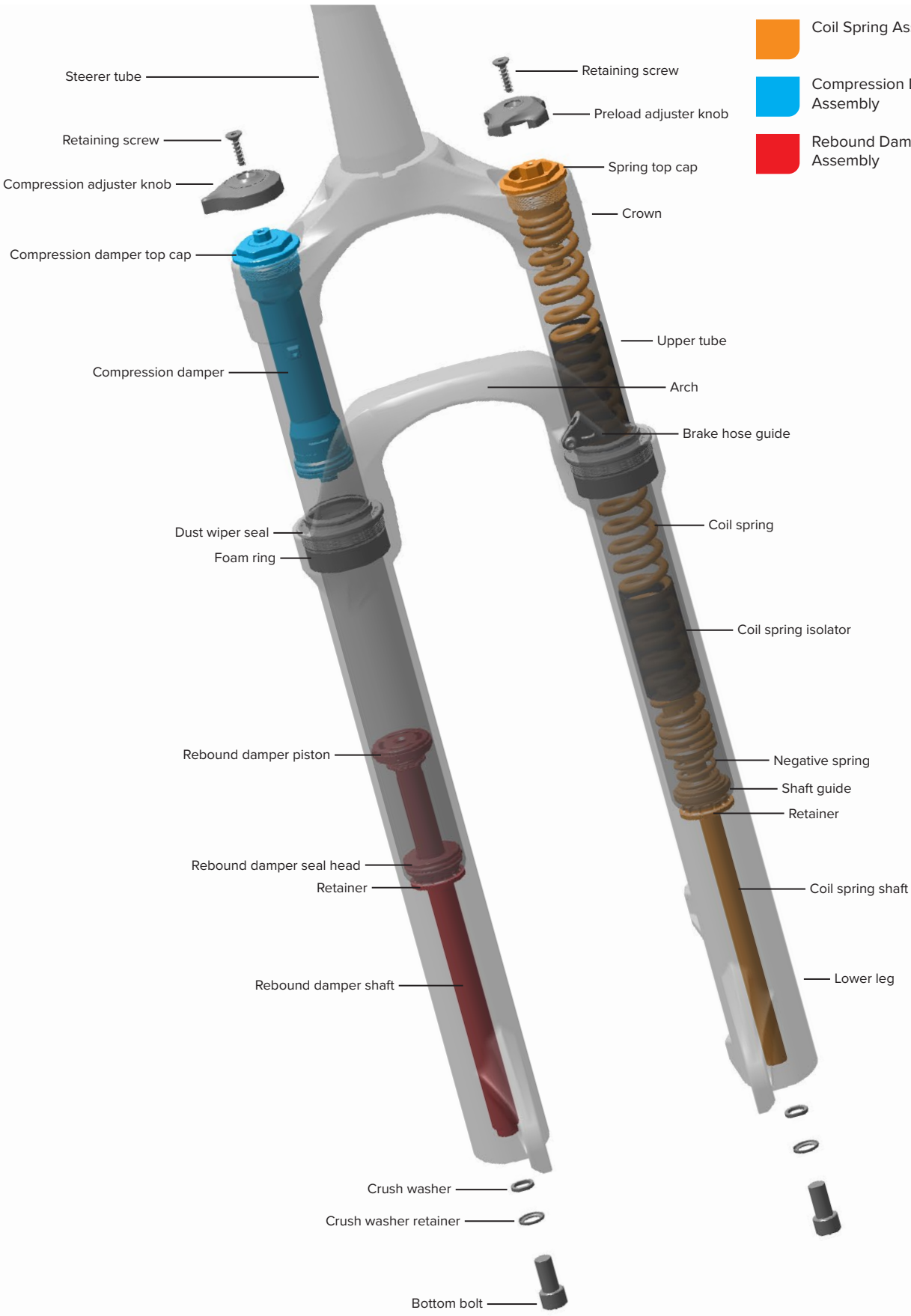


2020+ RL R

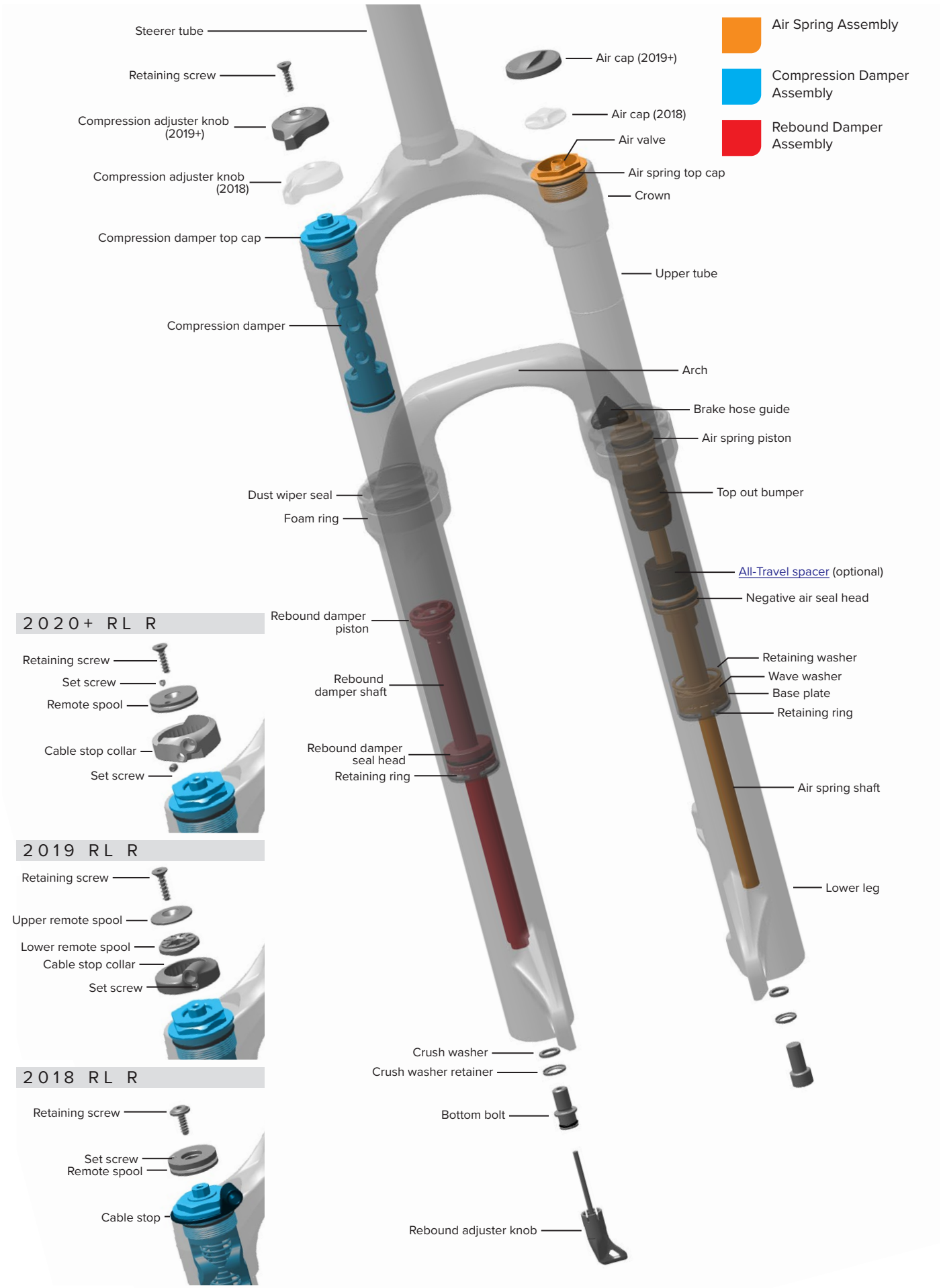
2019 TK R

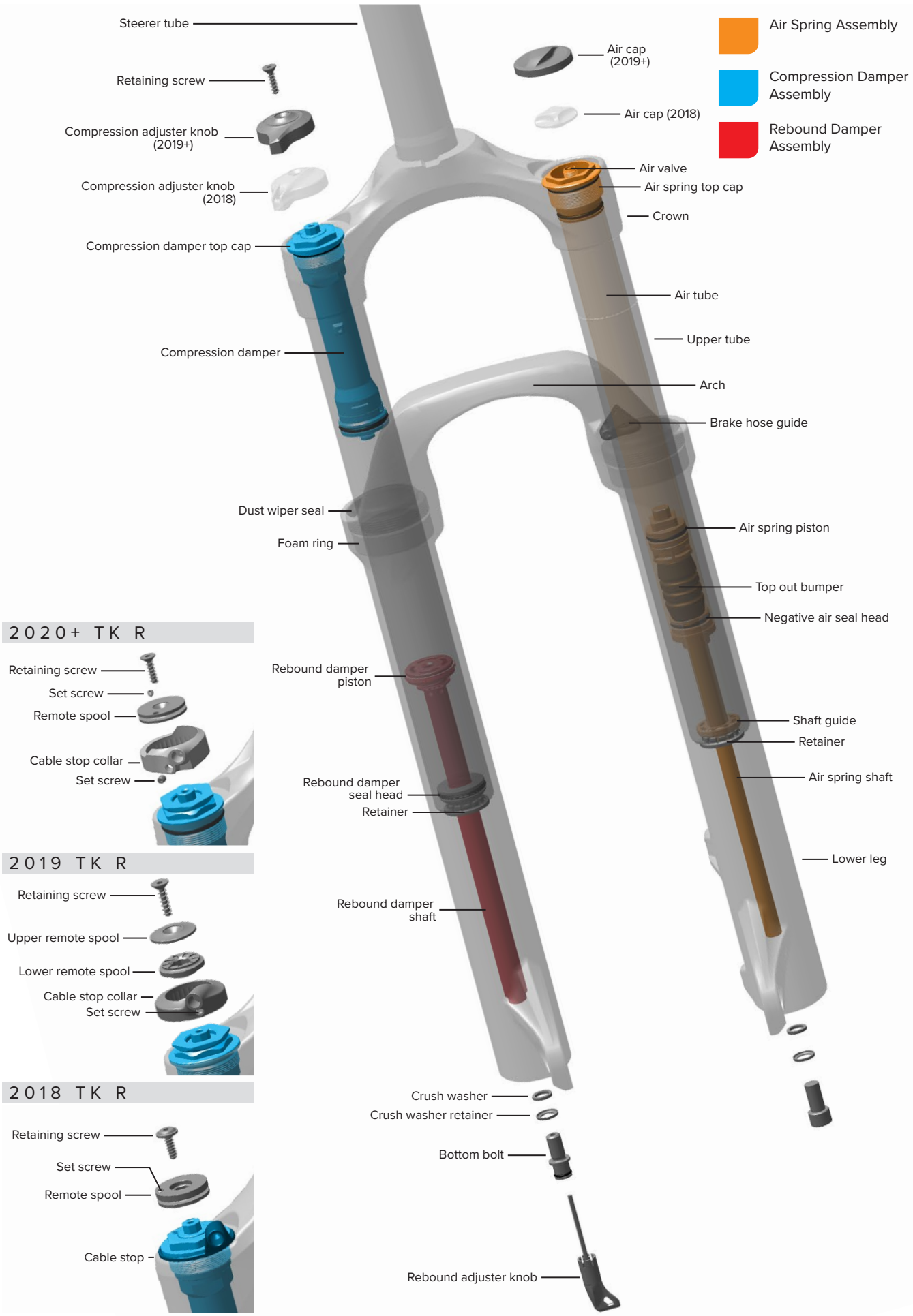
2018 TK R

Exploded View - 2021+ Judy TK - Coil



Exploded View - 2018-2020 30 Gold RL / 2021+ Judy Gold RL - Solo Air



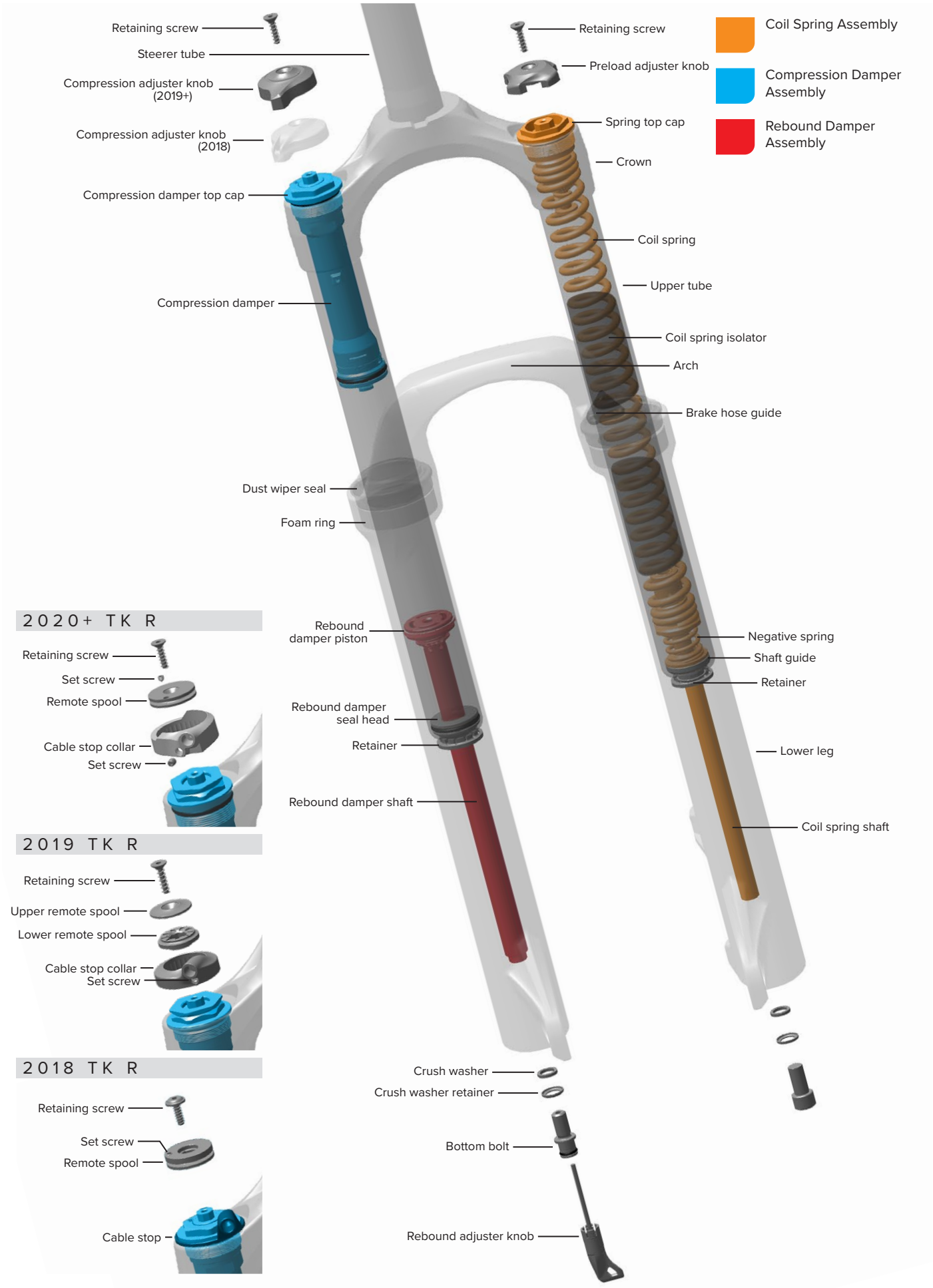


2020+ TK R

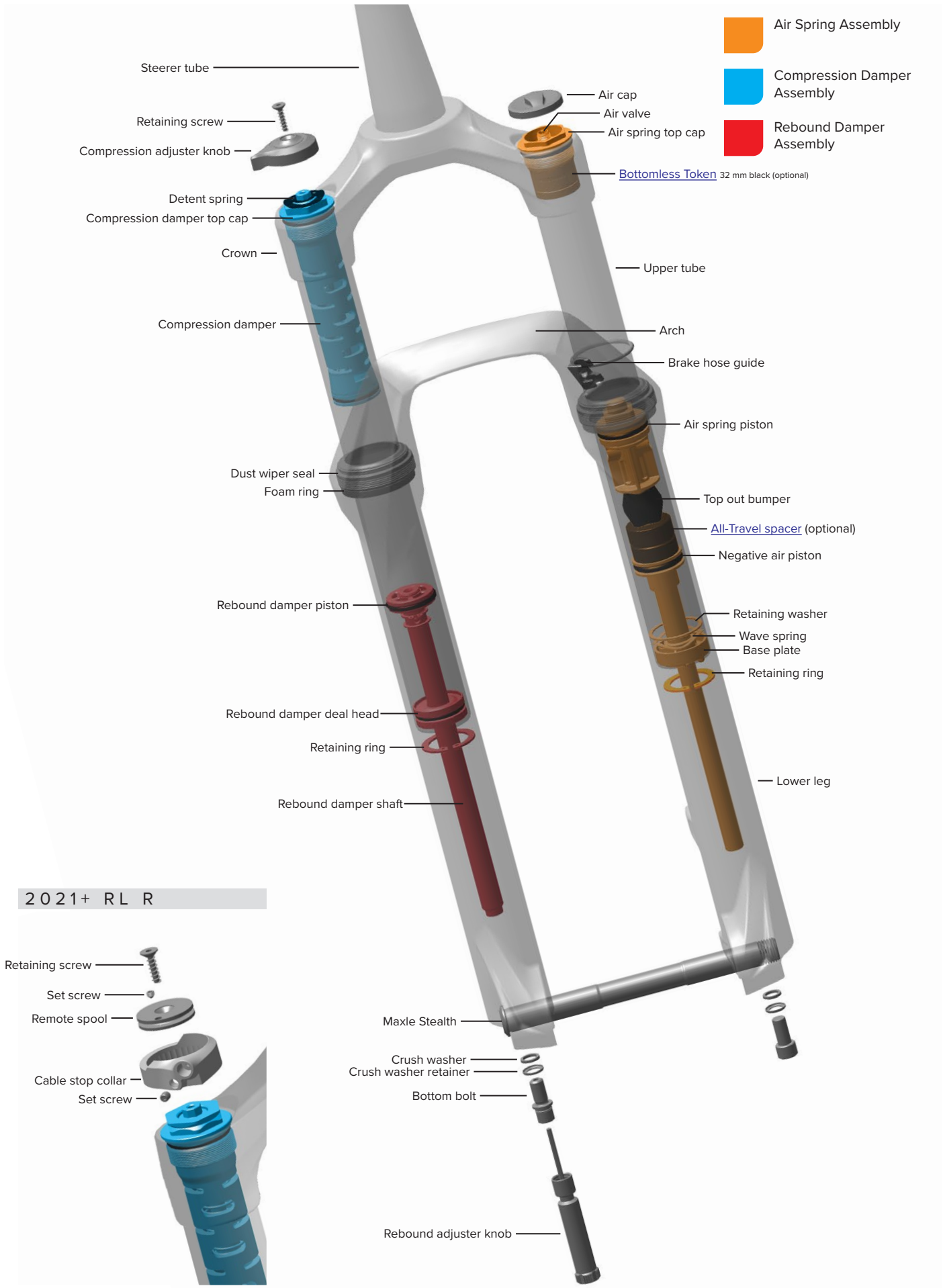
2019 TK R

2018 TK R

Exploded View - 2018-2020 30 Silver TK / 2021+ Judy Silver TK - Coil

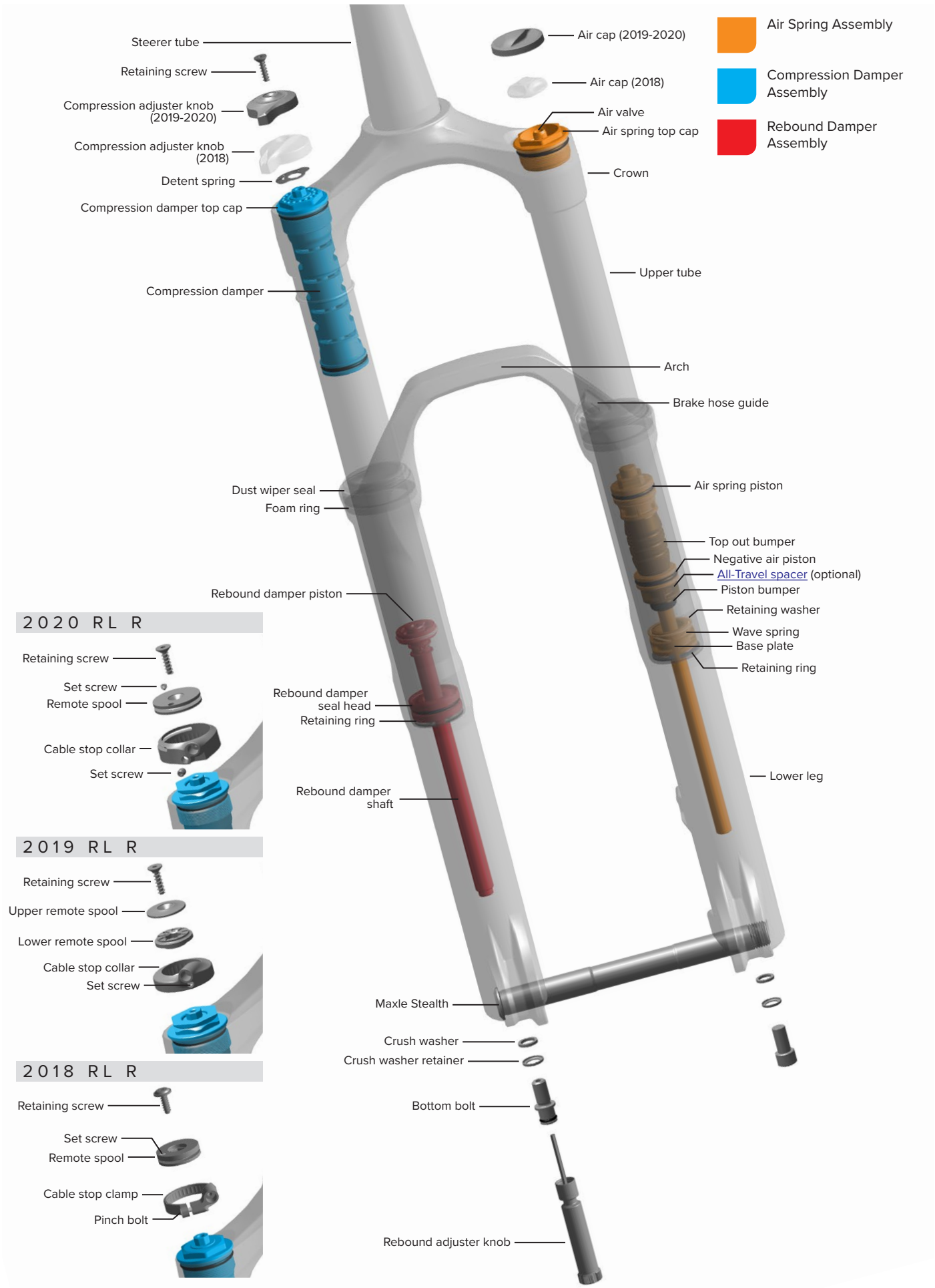


Exploded View - 2021+ Recon Gold RL - DebonAir

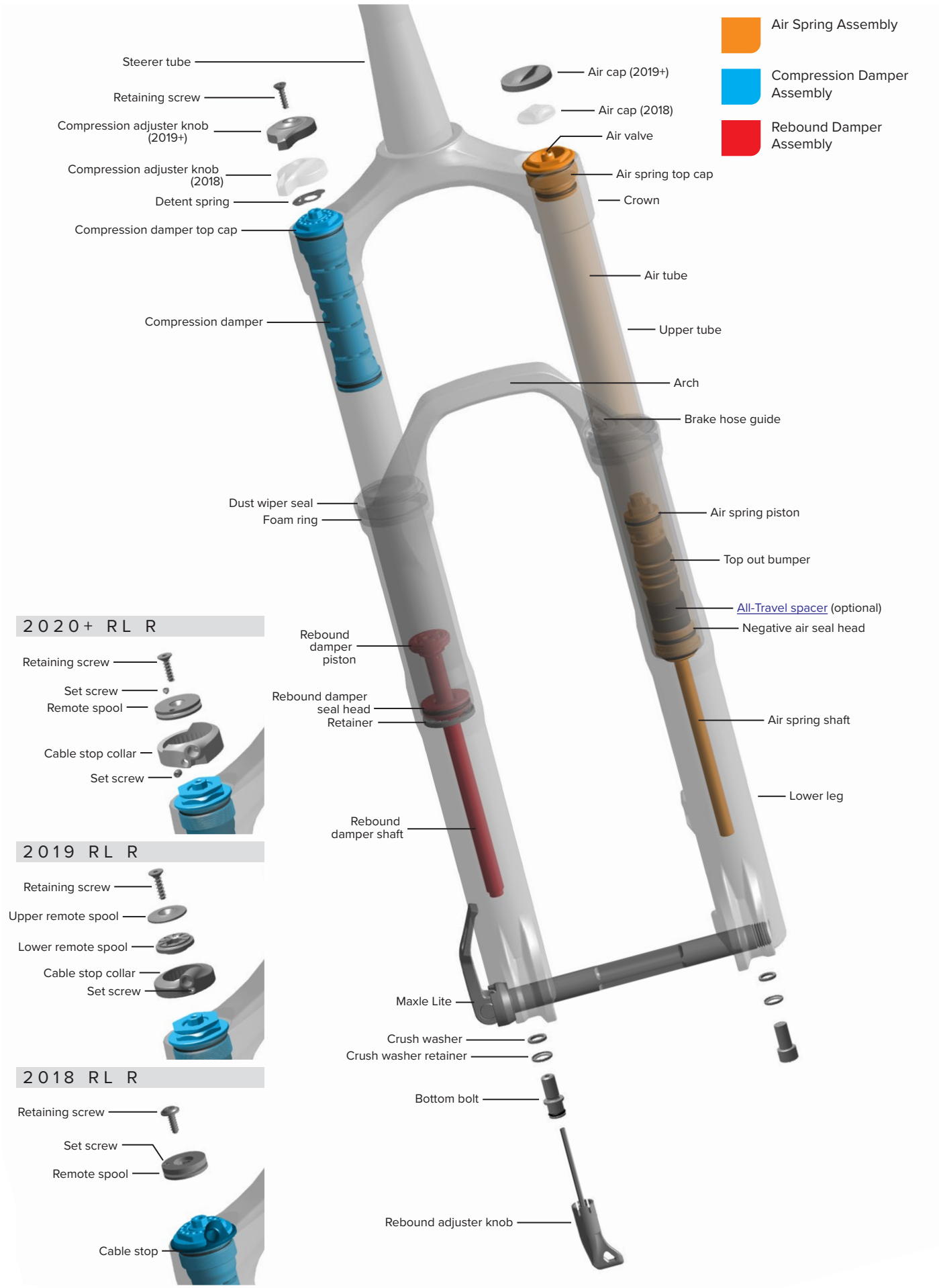


2021+ RL R

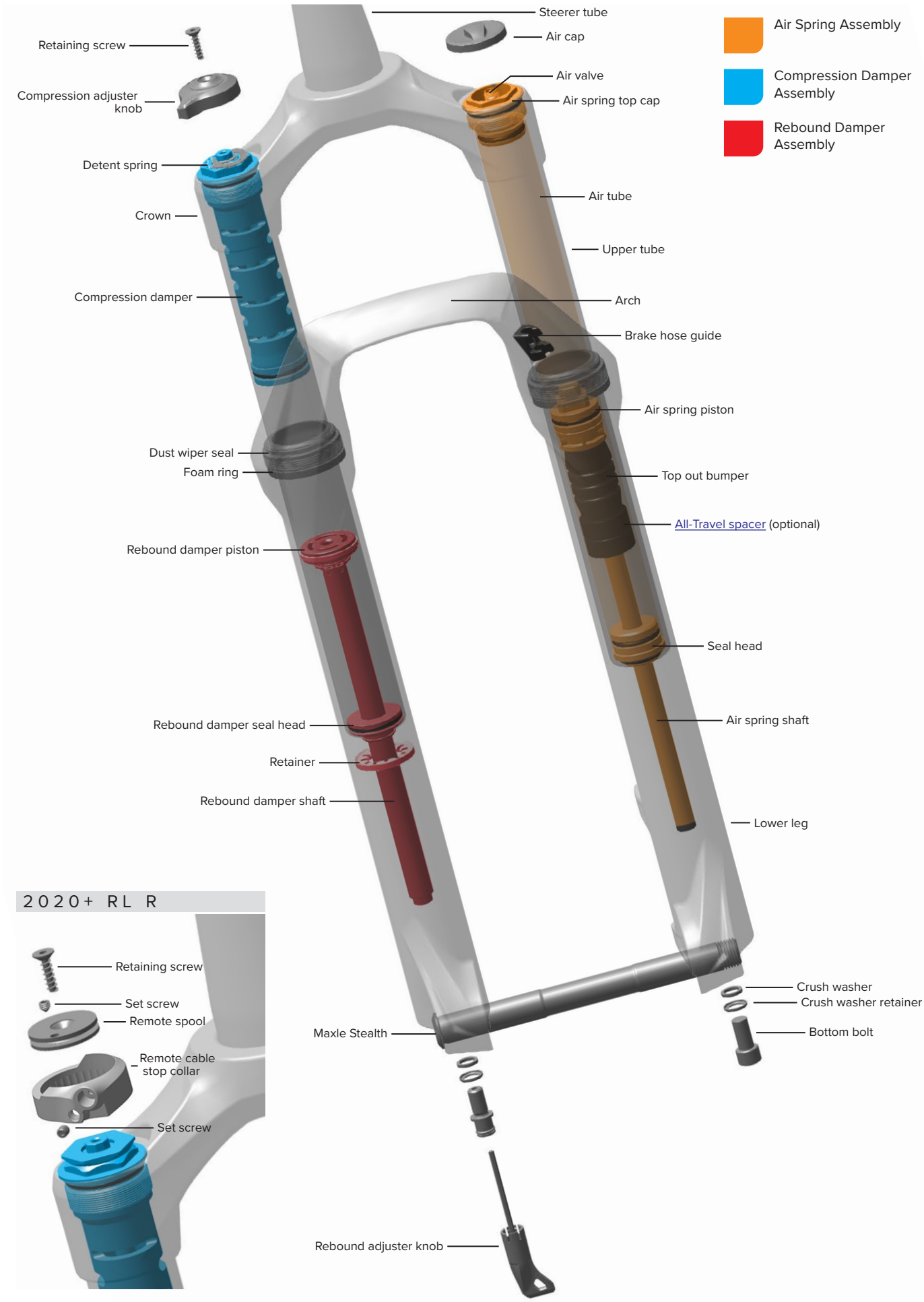
Exploded View - 2018-2020 Recon Gold RL - Solo Air



Exploded View - 2018-2020 Recon RL / 2021+ Recon Silver RL - Solo Air

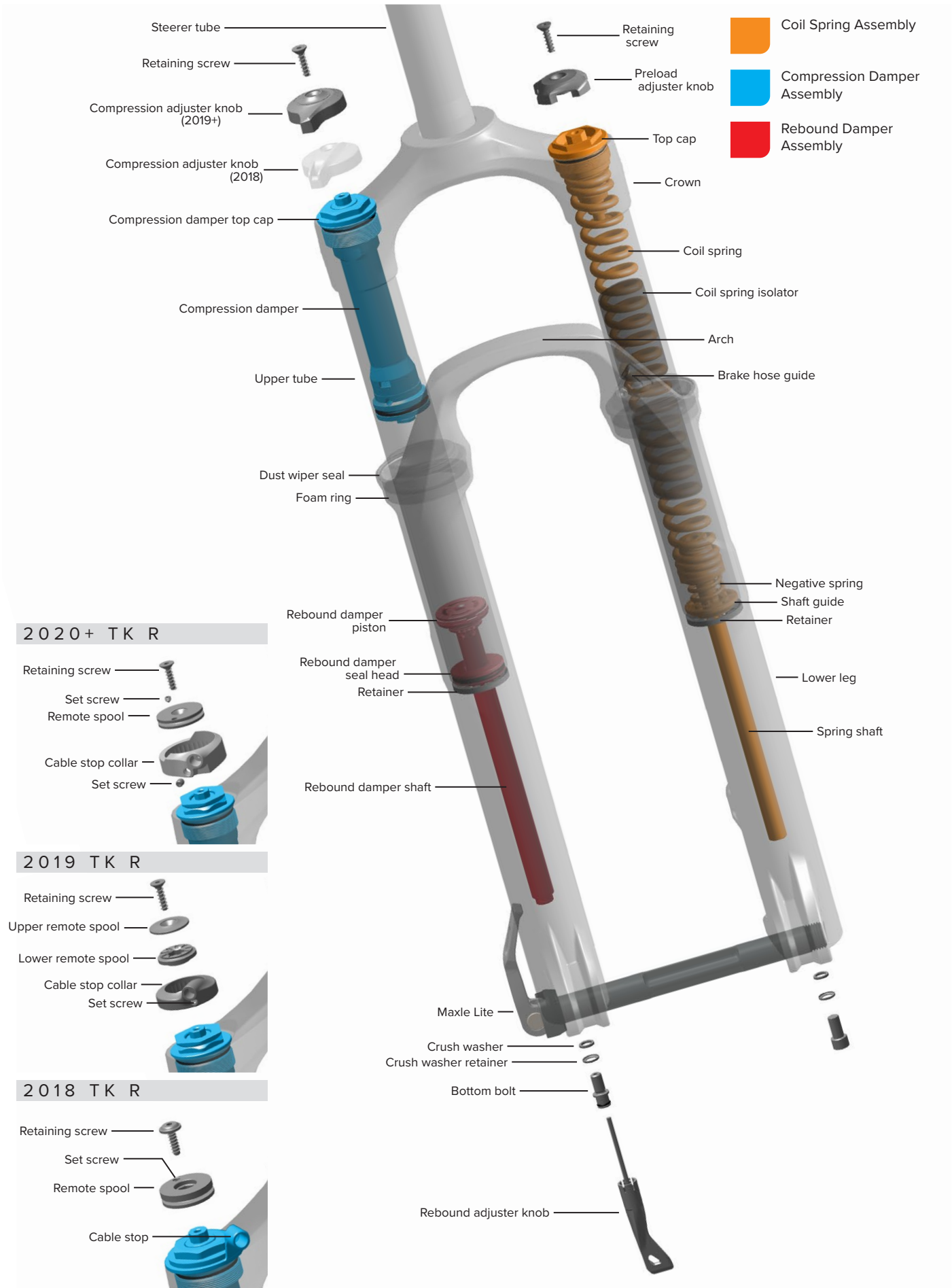


Exploded View - 2020 Recon RL (Boost) / 2021+ Recon Silver RL (Boost) - Solo Air



2020+ RL R

Exploded View - 2018-2020 Recon TK / 2021+ Recon Silver TK - Coil

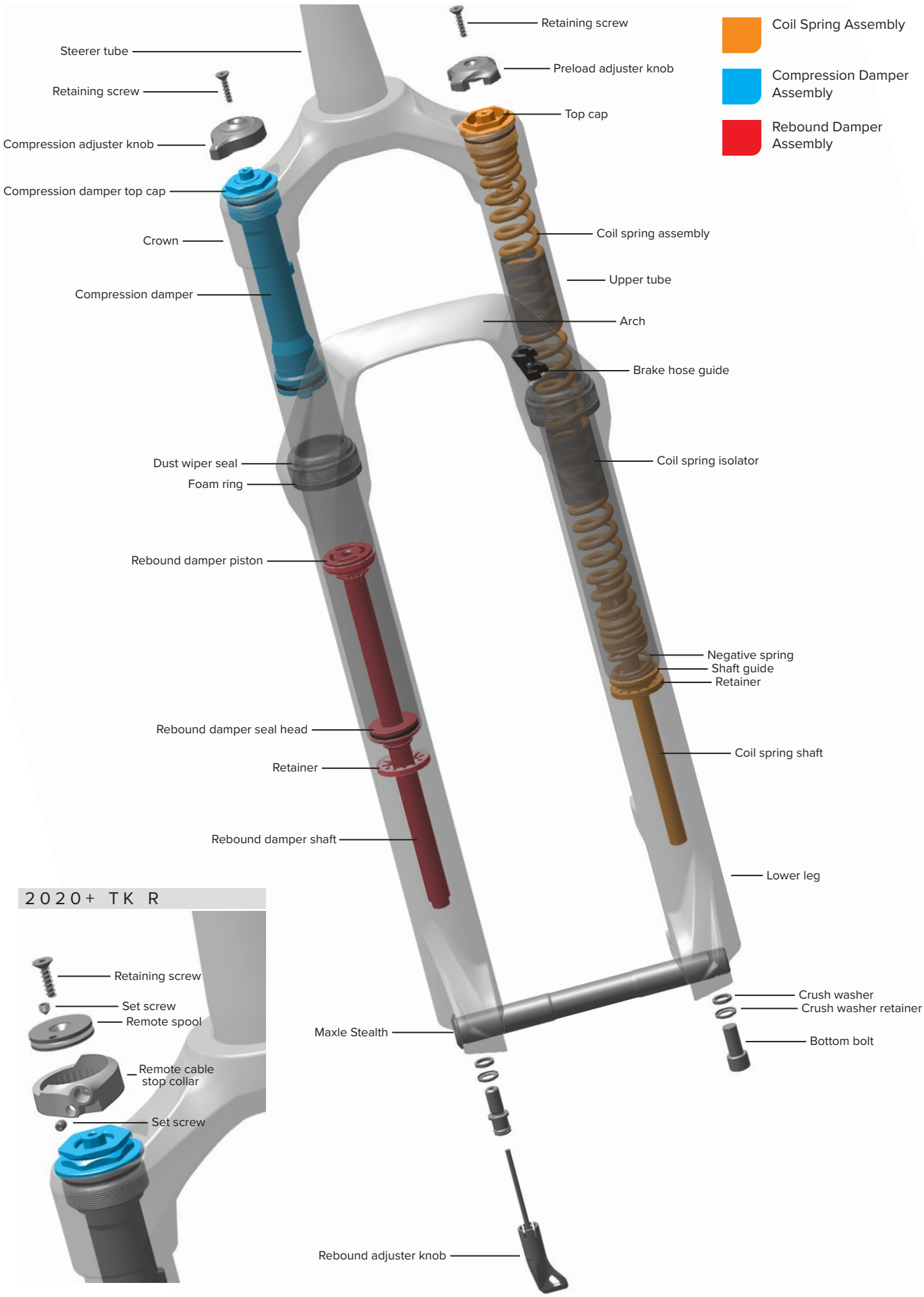


2020+ TK R

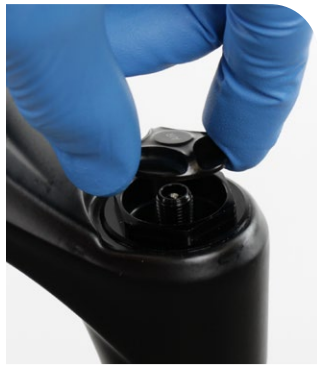
2019 TK R

2018 TK R

Exploded View - 2020 Recon TK (Boost) / 2021+ Recon Silver TK (Boost) - Coil



1 **Solo Air / DebonAir:** Remove the air valve cap.





2 **Solo Air / DebonAir:** 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.



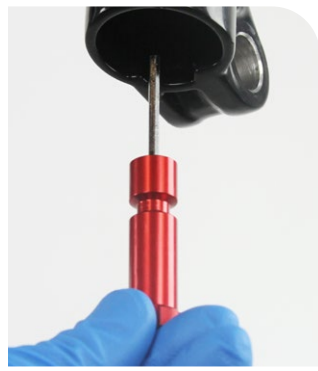
3 Turn the rebound adjuster knob counter-clockwise until it stops. This is the full open/fast rebound setting.

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 mm Spring side



5 mm Damper side

5 Insert a 5 mm hex wrench into each bottom bolt head and strike the wrench 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.



5 mm and Mallet Spring side



5 mm Spring side



5 mm and Mallet Damper side



5 mm Damper side

6 Firmly pull the lower leg downward until oil 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.

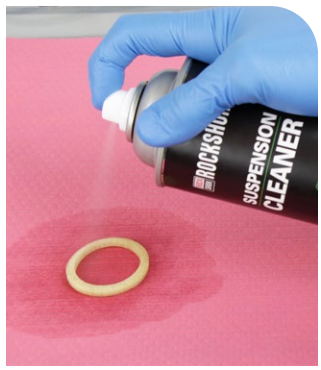


Pick



2 Clean the foam rings.

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









3 Soak the foam rings in suspension oil.



15wt

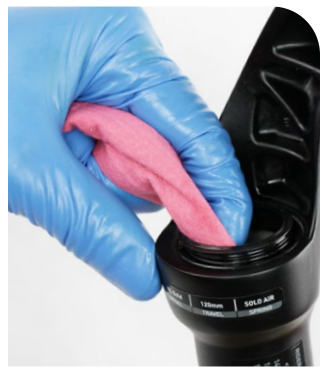
4 Remove the dust wiper outer springs and clean the inside and outside of the lower leg.

Clean the wiper seals.









5 Install the foam rings under the wiper seals.

Confirm the foam rings are installed evenly in the space under the wiper seals and do not protrude over the bushings.





6 Install the wiper springs.

Apply SRAM Butter grease to the inner surfaces of the wiper seals.





SRAM Butter

50 Hour Service Continue the 200 Hour Service with Lower Leg Installation.

1 Remove and discard the foam rings.

Remove the outer wire springs from the dust wiper seals.



Pick



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.



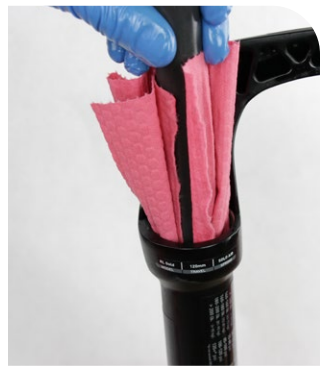
Downhill tire lever





3 Clean the inside and outside of the lower leg.





4 Soak the new foam rings in suspension oil. Install the new foam rings.



15wt



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



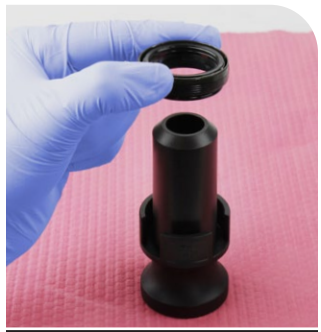
6 Insert the narrow end of a new seal into the recessed end of the RockShox Dust Seal Installation tool.

Judy / 30: 28 mm / 30 mm Dust Seal Installation Tool

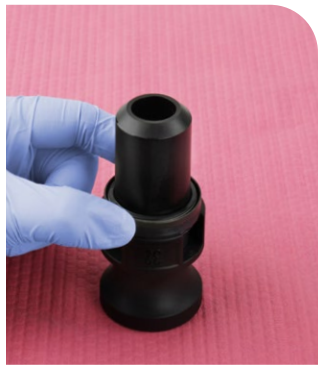
Recon: 32 mm Dust Seal Installation Tool

NOTICE

Recon: If the RockShox x Abbey Bike Tools installation tool is used, confirm the 32 mm installation puck is tightened hand tight on the installation tool handle to avoid damage to the installation puck during use.



Dust Seal Installation Tool





Abbey Bike Tools 32 mm Dust Seal Installation Tool



7 Stabilize the lower leg on a bench top. Hold the lower leg steady and press the 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 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 rings.



Dust Seal Installation Tool





Abbey Bike Tools 32 mm Dust Seal Installation Tool



8 Install the outer wire springs.

Apply SRAM Butter grease to the inner surfaces of the wiper seals.





SRAM Butter

200 Hour Service | Air Spring Removal and Service - Gold

⚠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 Liquid-O-Ring PM600 or SRAM Butter grease to the new seals and o-rings. If a brush is used to apply grease, confirm there are no loose bristles in the grease or on the part.



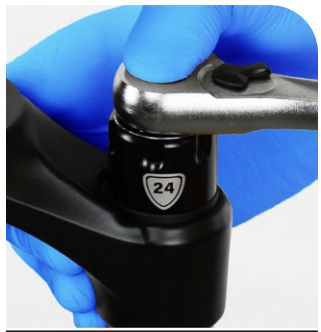
PM600



SRAM Butter

1 Remove the air spring top cap.

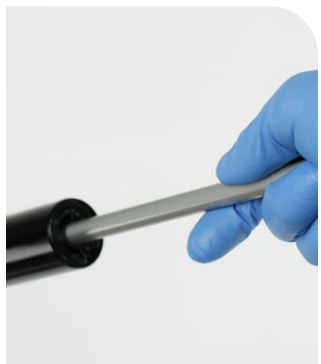
Clean the upper tube threads.



24 mm

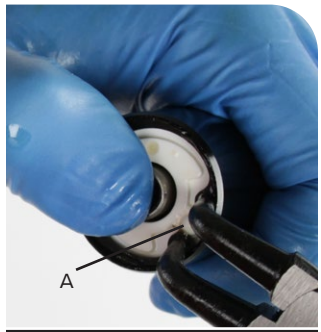


2 Push the air shaft into the upper tube to prevent it from getting scratched while removing the retaining ring.

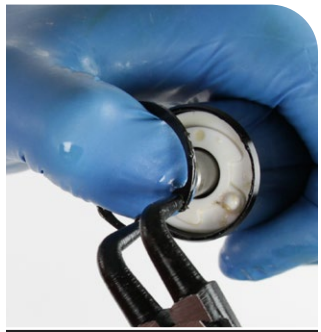




3 **(A):** Place the tips of large retaining ring pliers into the eyelets of the retaining ring. Press firmly on the pliers to push the base plate into the upper tube enough to compress and remove the retaining ring. Remove the retaining ring. Use your finger to guide the retaining ring over the air spring shaft.



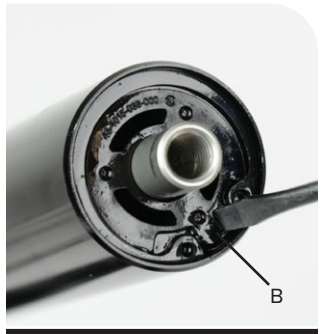
Retaining ring pliers


Retaining ring pliers

(B): Push the seal head tab into the upper tube and under the retaining ring. Place the tips of large retaining ring pliers into the eyelets of the retaining ring. Remove the retaining ring. Use your finger to guide the retaining ring over the air 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.



Flat blade screwdriver



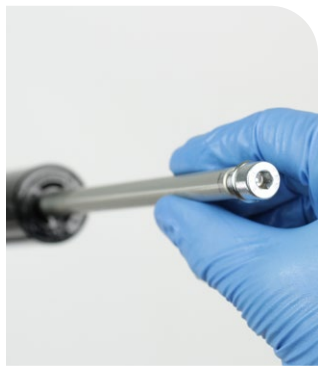

Retaining ring pliers



4 Thread the shaft bolt into the end of the air spring shaft and pull the shaft out to full extension.

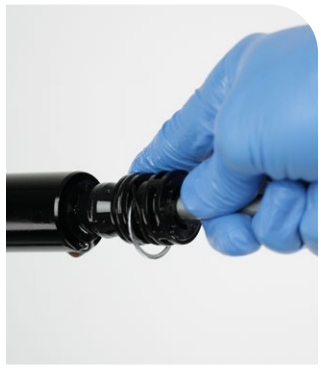
Remove the bolt.





5 Firmly pull on the air shaft to remove the air spring assembly from the upper tube.







6 **80 mm - 120 mm:** Remove the seal head base plate assembly, All-Travel spacer if installed (not pictured), and the top out bumper.

Clean and inspect the shaft for damage.



80 mm - 120 mm



80 mm - 120 mm

130 mm - 150 mm: Remove the base plate, wave spring, retaining washer, seal head bumper, All-Travel spacer if installed (not pictured), floating 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.



130 mm - 150 mm



130 mm - 150 mm



130 mm - 150 mm



130 mm - 150 mm

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

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

NOTICE

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

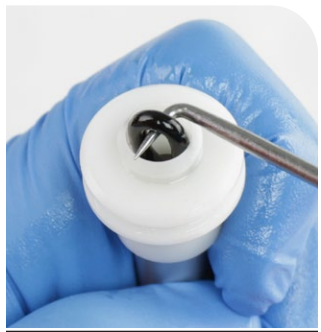


8 Remove the inner and outer o-ring seals from the seal head and discard them.

Clean the seal head.

NOTICE

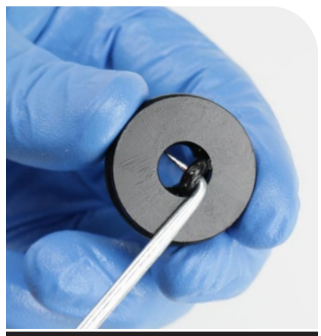
Do not scratch the seal head. Scratches will cause air to leak.



80 mm - 120 mm



80 mm - 120 mm



130 mm - 150 mm



130 mm - 150 mm

9 Apply grease to new inner and outer o-ring seals and install them.

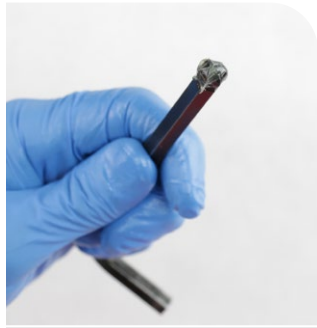
80 mm - 120 mm: Apply grease to the new inner o-ring and insert it into the inner gland. Apply grease to the ball end of a clean 10 mm hex wrench.

Insert the ball end of the wrench into the base plate and stop just below the inner o-ring gland of the seal head.

Apply grease to the ball end of a clean 8 mm hex wrench and use it to push the inner o-ring into the gland using the 10 mm hex wrench to guide the o-ring into the gland.



80 mm - 120 mm



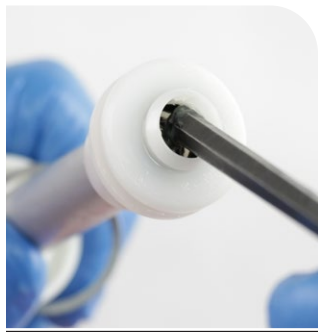
10 mm 80 mm - 120 mm



10 mm 80 mm - 120 mm



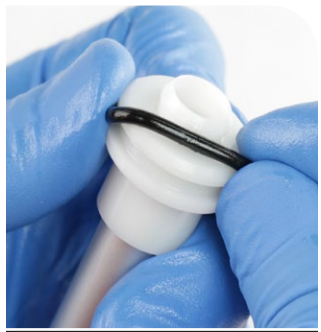
8 mm 80 mm - 120 mm



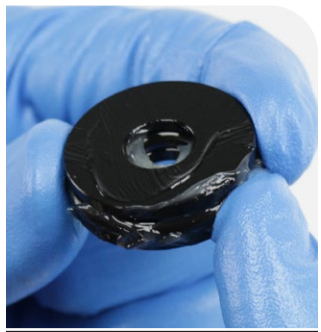
8 mm 80 mm - 120 mm



80 mm - 120 mm



80 mm - 120 mm



130 mm - 150 mm

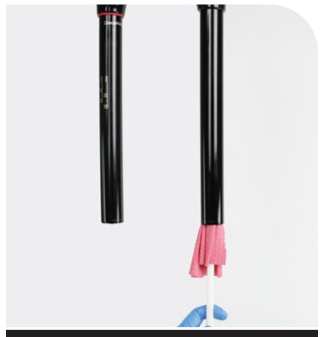
10 Clean the inside and outside of the upper tube.

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.





Dowel



Dowel

All-Travel Spacer Configurations (optional)

To increase or decrease the travel of your RockShox fork, an All-Travel spacer 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 20 mm All-Travel spacer must be removed from the air spring assembly.

If travel is changed from 80 mm, 100 mm, or 120mm to 130 mm, 140 mm, or 150 mm, and vice versa, the air spring must be replaced with the appropriate length air spring assembly in addition to the appropriate length All-Travel spacer.

Use the table and images below to determine which All-Travel spacer and air spring assembly can be used with each fork travel option.

Refer to the *RockShox Spare Parts Catalog* at www.sram.com/service for available air springs and All-Travel spacer kits.

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

NOTICE

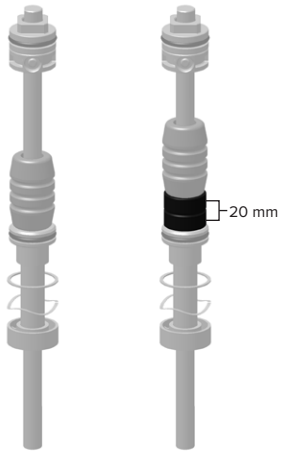
Do not install All-Travel spacers larger than the largest specified spacer for your fork.

Do not install an air spring assembly that exceeds the maximum travel specified for your fork.

All-Travel Spacers - Judy Gold, 30 Gold, Recon Gold - Solo Air

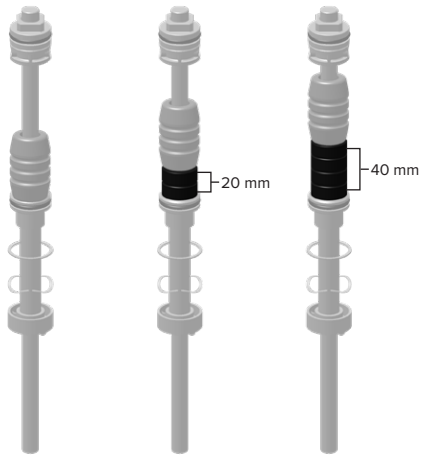
			Wheel Size				
			26"	27.5"	27.5" Boost	29"	29" Boost
Fork Model	Travel	Year	All-Travel Spacer				
Judy Gold	80 mm	2018 (FS-JDYG-RL-A1) 2019-2020 (FS-JDYG-RL-A2)	-	-	40 mm	-	40 mm
	100 mm				20 mm		20 mm
	120 mm				No Spacer		No Spacer
	80 mm	2021+ (FS-JDYG-RL-A3)	20 mm	40 mm	40 mm	40 mm	40 mm
	100 mm		No Spacer	20 mm	20 mm	20 mm	20 mm
	120 mm		-	No Spacer	No Spacer	No Spacer	No Spacer
30 Gold	80 mm	2018 (FS-30G-RL-A1) 2019-2020 (FS-30G-RL-A2)	20 mm	40 mm	-	40 mm	-
	100 mm		No Spacer	20 mm		20 mm	
	120 mm		-	No Spacer		No Spacer	
Recon Gold	80 mm	2018 (FS-RCNG-RL-A4) 2020 (FS-RCNG-RL-A5)	-	40 mm	40 mm	40 mm	40 mm
	100 mm			20 mm	20 mm	20 mm	20 mm
	120 mm			No Spacer	No Spacer	No Spacer	No Spacer
	130 mm			20 mm	20 mm	20 mm	20 mm
	140 mm			-	10 mm	-	10 mm
	150 mm				No Spacer		No Spacer
	80 mm	2019 (FS-RCNG-RL-A5)	-	40 mm	-	40 mm	-
	100 mm			20 mm		20 mm	
	120 mm			No Spacer		No Spacer	
	130 mm			20 mm		20 mm	
	140 mm			-		-	
	150 mm						
	80 mm	2021+ (FS-RCNG-RL-C1)	-	-	40 mm	-	40 mm
	100 mm				20 mm		20 mm
	120 mm				No Spacer		No Spacer
	130 mm				20 mm		20 mm
	140 mm				10 mm		10 mm
	150 mm				No Spacer		No Spacer

2021+ Judy Gold - 26"
2018-2020 30 Gold - 26"



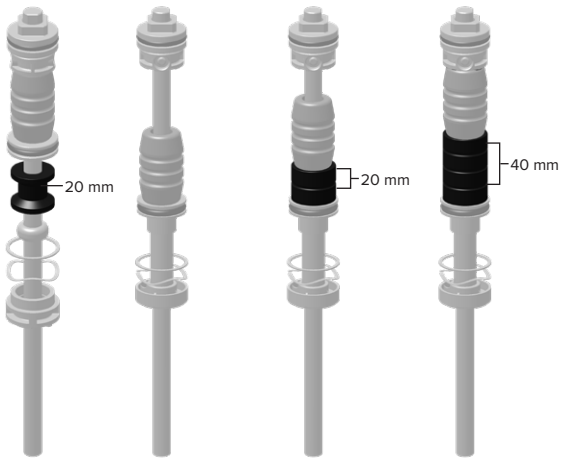
100mm **80mm**

2018+ Judy Gold - 27.5" Boost, 29" Boost
2021+ Judy Gold - 27.5", 29"
2018-2020 30 Gold - 27.5", 29"



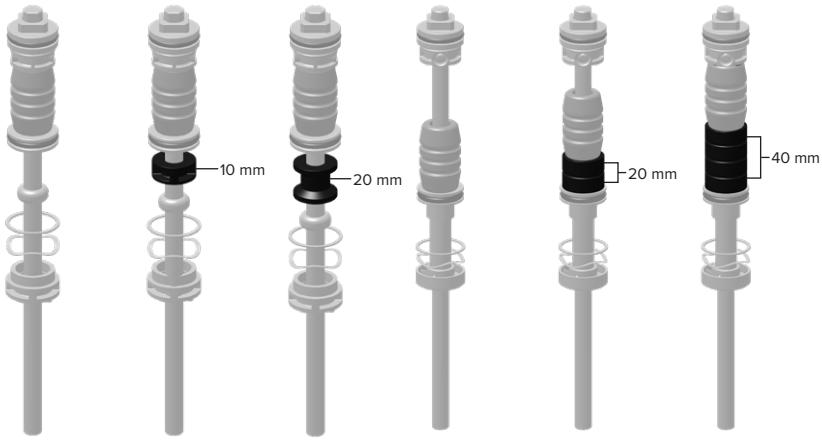
120mm **100mm** **80mm**

2018-2020 Recon Gold - 27.5", 29"



130mm **120mm** **100mm** **80mm**

2018, 2020 Recon Gold - 27.5" Boost, 29" Boost
***2021+ Recon Gold - 27.5" Boost, 29" Boost**



***150mm** ***140mm** **130mm** **120mm** **100mm** **80mm**

Bottomless Tokens (optional) - 2021+ Recon Gold

Bottomless Tokens can be added to, or removed from, the DebonAir 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.

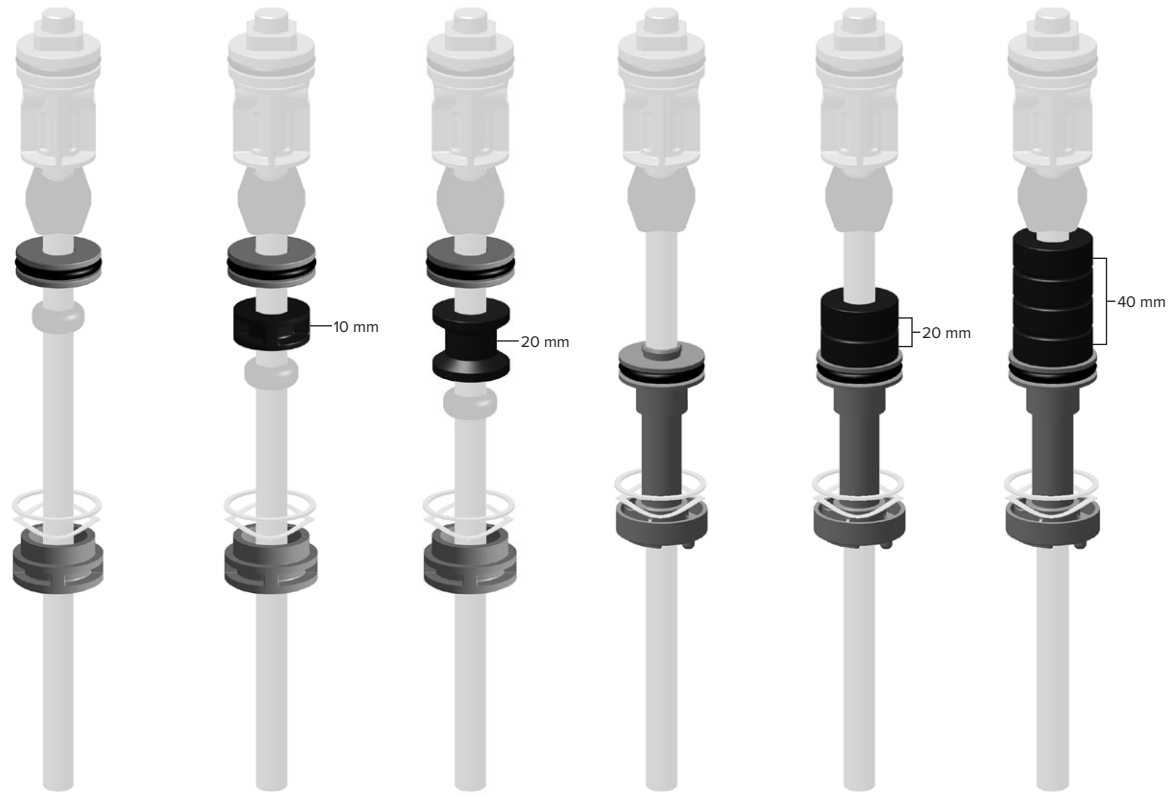
For part ordering information, please contact your local SRAM distributor or dealer.

All-Travel Spacers and Bottomless Tokens - 2021+ Recon Gold - DebonAir

27.5" Boost & 29" Boost				
Fork Travel (mm)	All-Travel Spacer (mm)	Air Spring Assembly (mm)	Bottomless Tokens Factory Installed	Bottomless Tokens Maximum
80	40	80 - 120	0	2
100	20			
120	-			
130	20	130 - 150		
140	10			
150	-			

Air Spring and All-Travel Spacer Configurations - 2021+ Recon Gold

2021+ Recon Gold - 27.5" Boost, 29" Boost



150 mm **140 mm** **130 mm** **120 mm** **100 mm** **80 mm**

Bottomless Tokens Installation (optional) - 2021+ Recon Gold - DebonAir

Bottomless Tokens reduce air volume and create greater ramp at the end of the fork's 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.

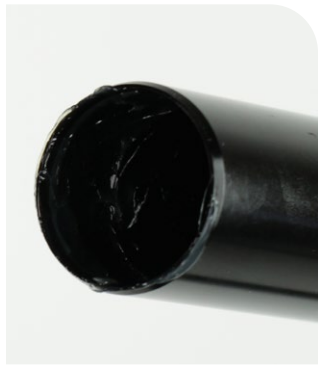
Thread a Bottomless Token into another Bottomless Token, or into the the bottom of the top cap, and tighten.





1 Apply 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.

Note: 2021+ Recon Gold top out bumper pictured.



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



4 **All-Travel**: Refer to Air Spring Travel Change and Bottomless Tokens for spacer configurations.

80 mm - 120 mm: Install the All-Travel spacer (optional) and seal head base plate assembly onto the air shaft.



80 mm - 120 mm



80 mm - 120 mm

130 mm - 150 mm: Install the seal head, All-Travel spacer (optional), and the seal head bumper.



130 mm - 150 mm



130 mm - 150 mm

5 **130 mm - 150 mm:** 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.



130 mm - 150 mm



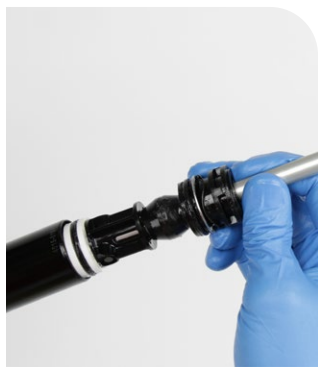
130 mm - 150 mm

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

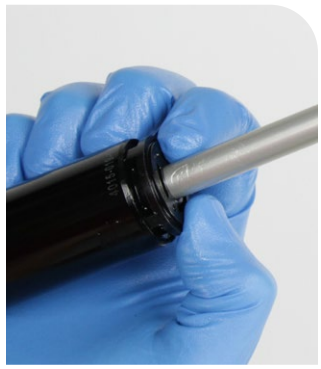
Position the flat retaining washer (A) into the upper tube, followed by the wavy washer (B).

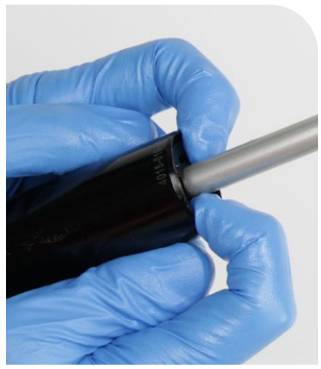
Use your fingers to firmly press the seal head into the upper tube until it stops.

This procedure is the same for all fork travel configurations.









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.

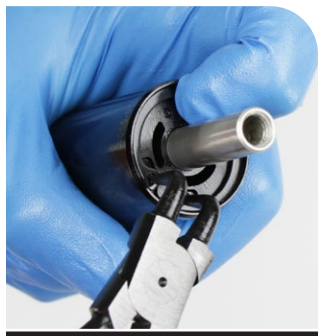
Place the tips of the retaining ring pliers into the eyelets of the retaining ring, then use the pliers to push the seal head into the upper tube while installing the retaining ring into the groove.

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.

Thread a bottom bolt into the shaft, then firmly pull the air shaft out.

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.



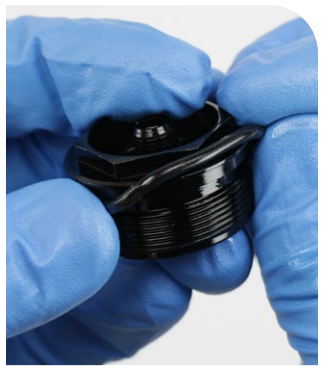
Retaining ring pliers

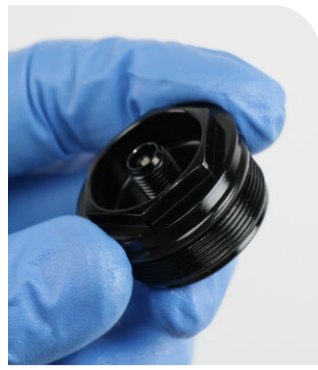






9 Remove the top cap o-ring and discard it. Apply grease to a new o-ring and install it.





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

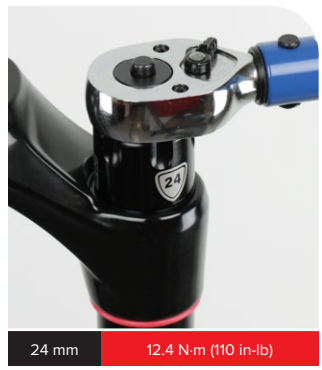
	Oil Weight (wt)	Air Spring Volume (mL)
Judy Gold	5	2
30 Gold		
Recon Gold		



5wt RockShox bleed syringe

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





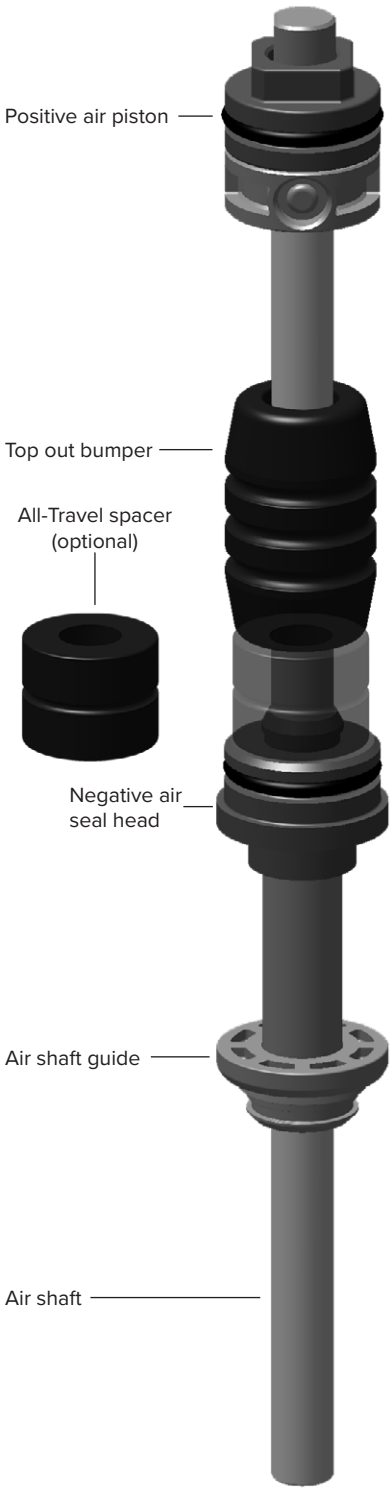
24 mm 12.4 N·m (110 in-lb)

200 Hour Service Continue the 200 Hour Service with Damper Service - Judy Gold, 30 Gold, Recon Gold.

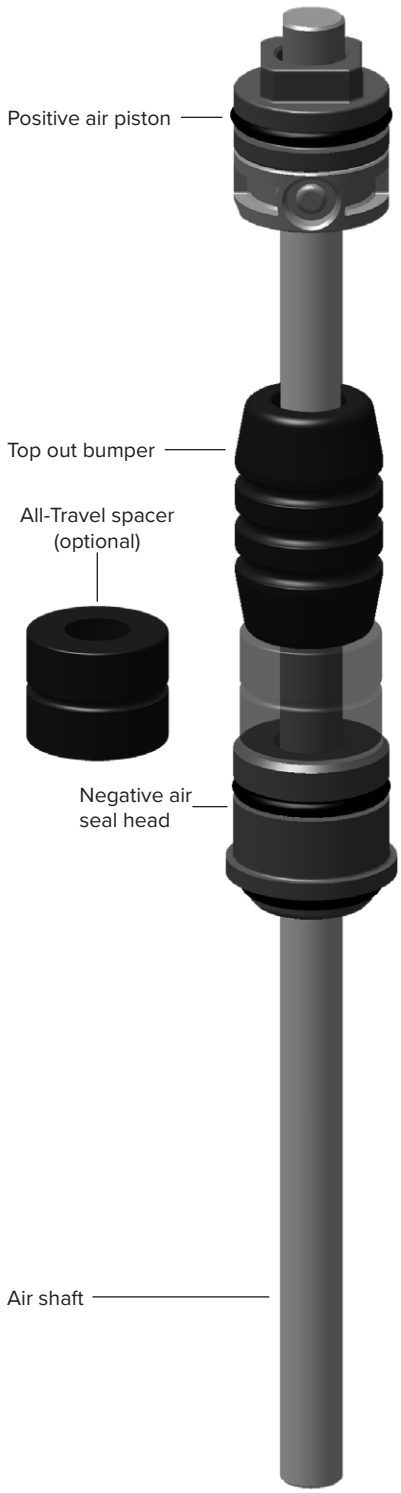
Exploded View

Judy Silver
2018+ 26", 27.5" Boost, 29" Boost (130 mm-80 mm)

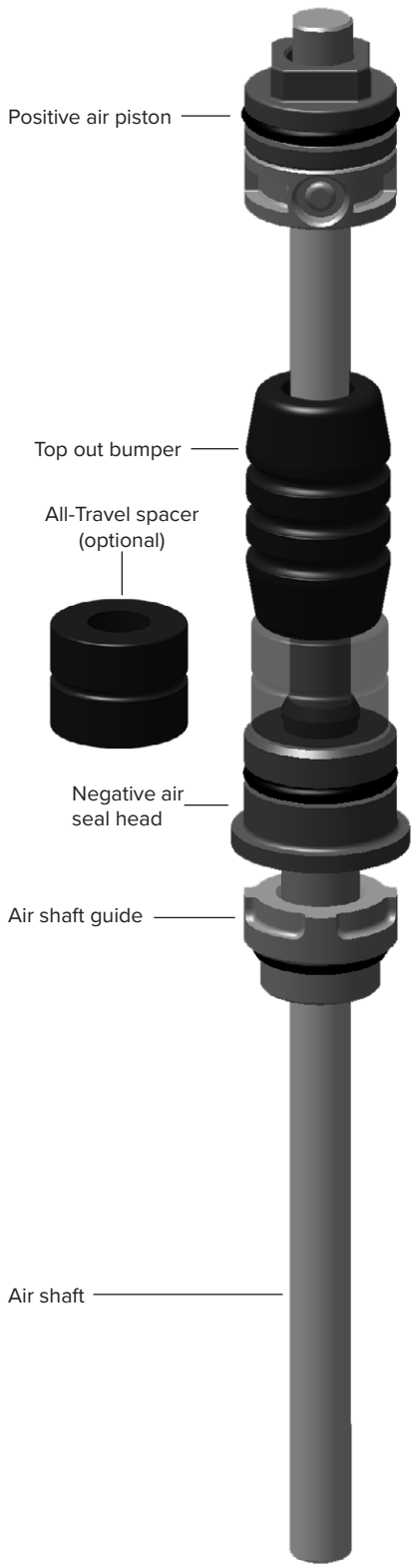
30 Silver
2018-2020 26", 27.5", 29" (120 mm-80 mm)



Recon Silver RL
2018+ 27.5", 29" (140 mm-80 mm)
2018-2019 27.5" Boost, 29" Boost (150 mm-130 mm)
2020+ 27.5" Boost, 29" Boost (150 mm-80 mm)



Recon Silver RL
2018-2019
27.5" Boost, 29" Boost
(120 mm-80 mm)



⚠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 Liquid-O-Ring PM600 or SRAM Butter grease to the new seals and o-rings. If a brush is used to apply grease, confirm there are no loose bristles in the grease or on the part.



PM600

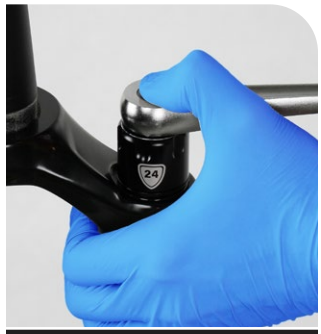


SRAM Butter

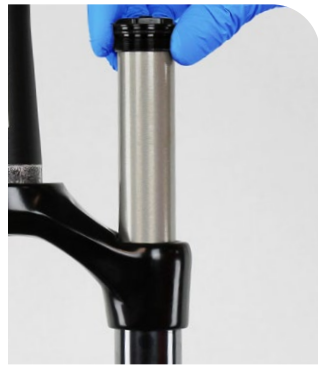
1 Unthread the air spring top cap from the upper tube.

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

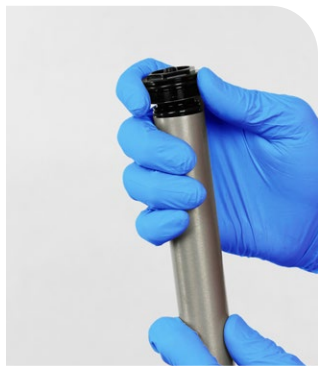
Clean the upper tube threads.

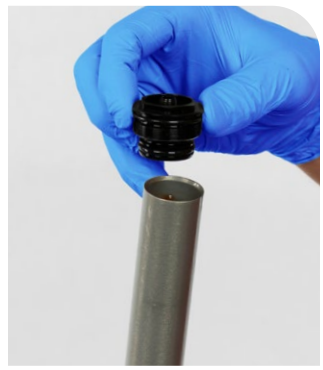


24 mm

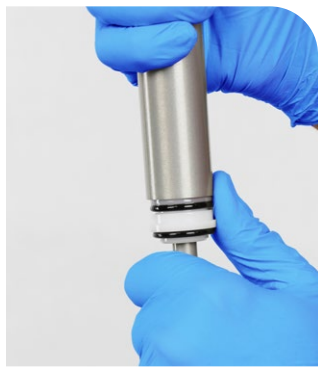


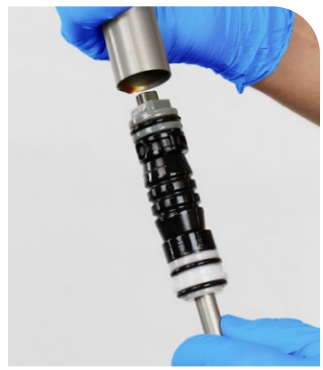
2 Remove the top cap.





3 Remove the air spring assembly from the air tube.

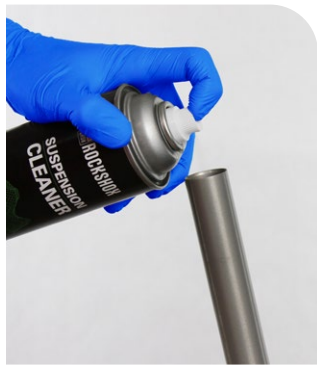


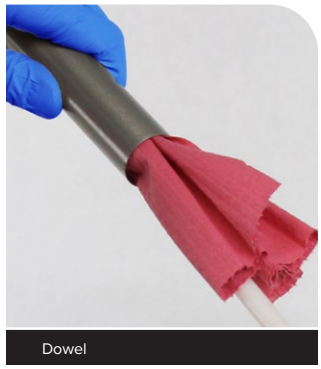


4 Clean the inside and outside of the tube and check for scratches.

NOTICE

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

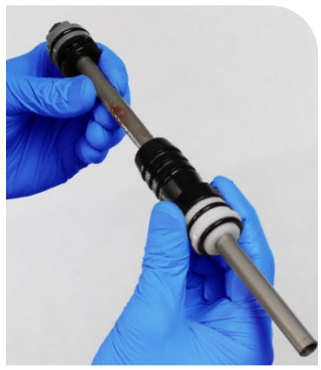




Dowel

5 Remove the seal head, All-Travel spacer (A) if installed, and the top out bumper. Clean the air spring shaft and inspect it for scratches.

Air spring internals vary by fork and travel. Refer to Air Spring Service - Judy Silver, 30 Silver, Recon Silver RL for reference.







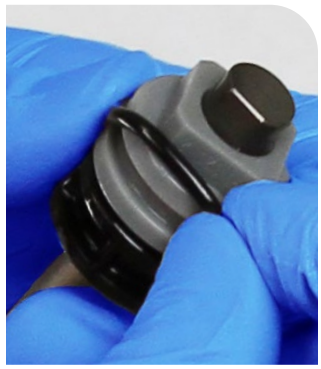


6 Remove and discard the air piston o-ring.

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

NOTICE

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





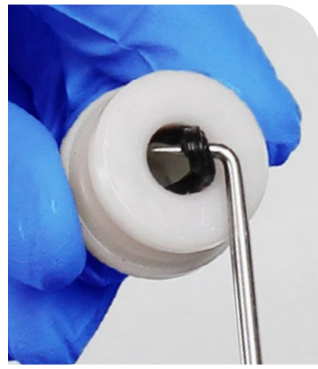
7 Remove the outer seal head o-ring and inner quad ring seal and discard them.

Clean the seal head.

NOTICE

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





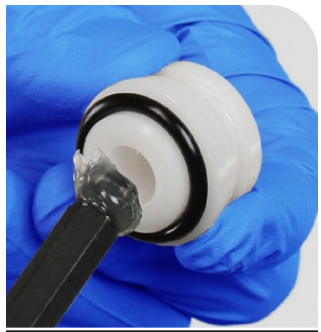




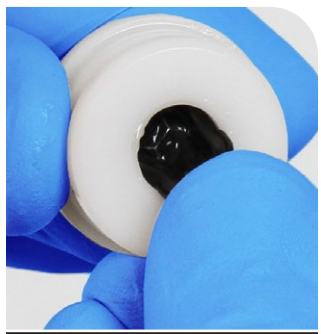
8 Apply grease to the ball end of a clean 8 mm hex wrench. Insert the ball end of the wrench into the seal head and stop just below the inner seal gland.

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

Use your finger to push the seal into the gland and use the ball end of the 8 mm hex wrench to guide the seal into the gland.



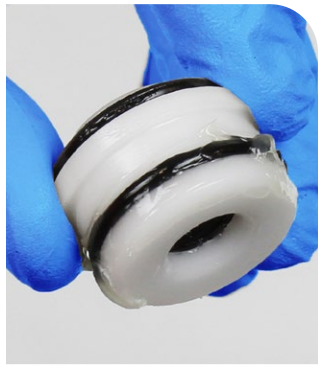


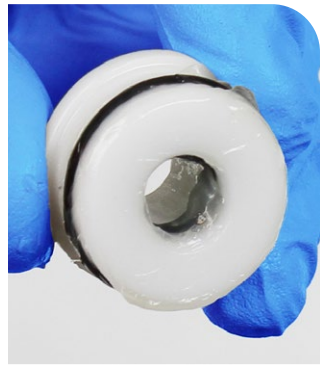




Apply grease to the new outer o-ring and install it.

Apply a liberal amount of grease to the inner seal.





All-Travel Spacer Configurations (optional) - Silver

To increase or decrease the travel in your RockShox Judy Silver, 30 Silver, or Recon Silver, an All-Travel spacer can be installed or removed. For example, to increase travel from a maximum of 80 mm of travel to a maximum of 120 mm of travel, the 40 mm All-Travel spacer must be removed from the air spring assembly. Use the table and images below to determine which All-Travel spacer is used for each fork travel option.

Refer to the *RockShox Spare Parts Catalog* at www.sram.com/service for available air springs and All-Travel spacer kits.

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

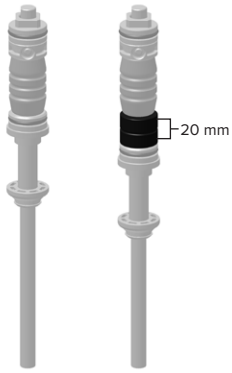
NOTICE

Do not install All-Travel spacers larger than the largest specified spacer for your fork.

Do not install a spring assembly that exceeds the maximum travel specified for your fork.

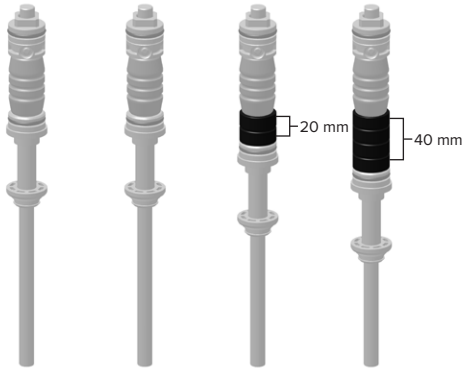
			Wheel Size				
			26"	27.5"	27.5" Boost	29"	29" Boost
Fork Model	Travel	Year	All-Travel Spacer				
Judy Silver	80 mm	2018-2019 (FS-JDYS-TK-A1) 2019-2020 (FS-JDYS-TK-A2)	-	-	40 mm	-	40 mm
	100 mm				20 mm		20 mm
	120 mm				No Spacer		No Spacer
	80 mm	2021+ (FS-JDYS-TK-A3)	20 mm	40 mm	40 mm	40 mm	40 mm
	100 mm		No Spacer	20 mm	20 mm	20 mm	20 mm
	120 mm		-	No Spacer	No Spacer	-	No Spacer
	130 mm			-			
30 Silver	80 mm	2018 (FS-30S-TK-A3) 2019-2020 (FS-30S-TK-A4) 2020 (FS-30S-TK-A5)	20 mm	40 mm	-	40 mm	-
	100 mm		No Spacer	20 mm		20 mm	
	120 mm		-	No Spacer		No Spacer	
Recon Silver RL	80 mm	2018-2019 (FS-RCN-RL-A1) 2019 (FS-RCN-RL-A2)	-	40 mm	40 mm	40 mm	40 mm
		2020 (FS-RCN-RL-A2)			-		-
		2020 (FS-RCN-RL-B1)		-	50 mm & 20 mm	-	50 mm & 20 mm
	100 mm	2018-2019 (FS-RCN-RL-A1) 2019 (FS-RCN-RL-A2)	-	20 mm	20 mm	20 mm	20 mm
		2020 (FS-RCN-RL-A2)			-		-
		2020 (FS-RCN-RL-B1)		-	50 mm	-	50 mm
		2021+ (FS-RCNS-RL-D1)		20 mm		20 mm	
	120 mm	2018-2019 (FS-RCN-RL-A1) 2019 (FS-RCN-RL-A2)	-	No Spacer	No Spacer	No Spacer	No Spacer
		2020 (FS-RCN-RL-A2)			-		-
		2020 (FS-RCN-RL-B1)		-	30 mm	-	30 mm
		2021+ (FS-RCNS-RL-D1)		No Spacer			
	130 mm	2018-2019 (FS-RCN-RL-A1) 2019 (FS-RCN-RL-A2)	-	20 mm	20 mm	20 mm	20 mm
		2020 (FS-RCN-RL-A2)			-		-
		2020 (FS-RCN-RL-B1)		-	20 mm	-	20 mm
		2021+ (FS-RCNS-RL-D1)		20 mm		20 mm	
	140 mm	2018-2019 (FS-RCN-RL-A1) 2019 (FS-RCN-RL-A2)	-	10 mm	10 mm	10 mm	10 mm
		2020 (FS-RCN-RL-A2)			-		-
		2020 (FS-RCN-RL-B1)		-	10 mm	-	10 mm
		2021+ (FS-RCNS-RL-D1)		10 mm		10 mm	
	150 mm	2018-2019 (FS-RCN-RL-A1) 2019 (FS-RCN-RL-A2)	-	-	No Spacer	-	No Spacer
		2020 (FS-RCN-RL-A2)			-		-
		2020 (FS-RCN-RL-B1) 2021+ (FS-RCNS-RL-D1)			No Spacer		No Spacer

2021+ Judy Silver - 26"
2018-2020 30 Silver - 26"



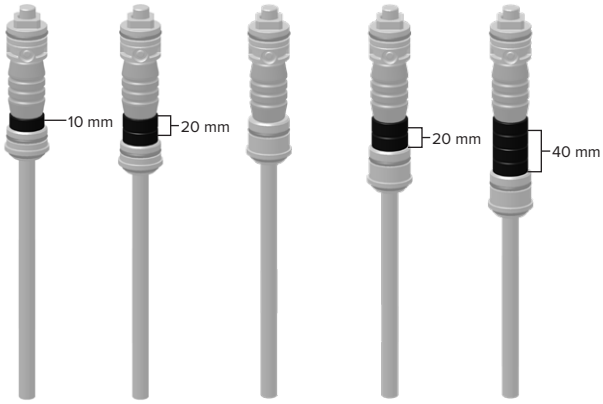
100mm **80mm**

2018+ Judy Silver - 27.5" Boost, 29" Boost
***2021+ Judy Silver - 27.5" Boost, 29" Boost**
2021+ Judy Silver - 27.5", 29"
2018-2020 30 Silver - 27.5", 29"



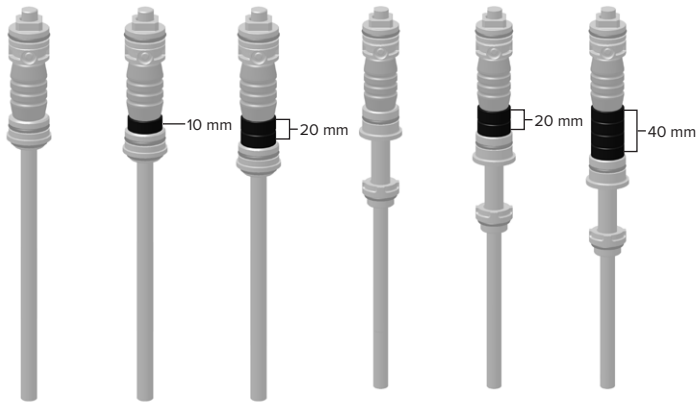
***130mm** **120mm** **100mm** **80mm**

2018+ Recon RL
27.5", 29"



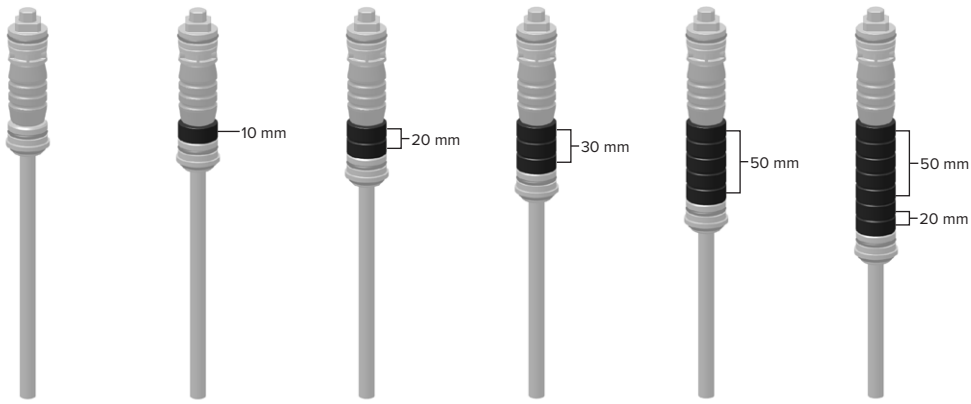
140mm **130mm** **120mm** **100mm** **80mm**

2018-2019 Recon RL
27.5" Boost, 29" Boost



150mm **140mm** **130mm** **120mm** **100mm** **80mm**

2020*, 2021+ Recon RL
27.5" Boost, 29" Boost



150 mm **140 mm** **130 mm** **120 mm** **100 mm** **80 mm***

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 Liquid-O-Ring PM600 or SRAM Butter grease to the new seals and o-rings. If a brush is used to apply grease, confirm there are no loose bristles in the grease or on the part.



PM600

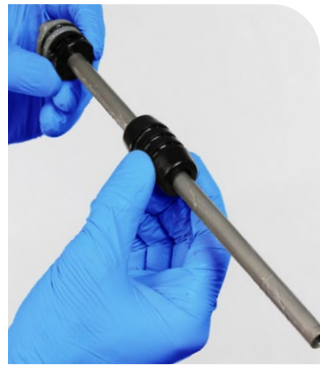


SRAM Butter

1 Apply grease to the air shaft.

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

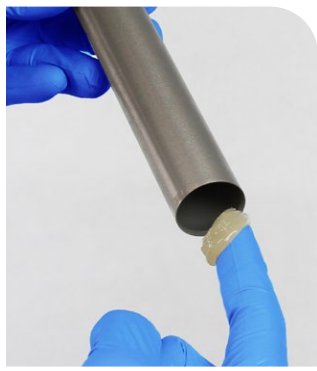


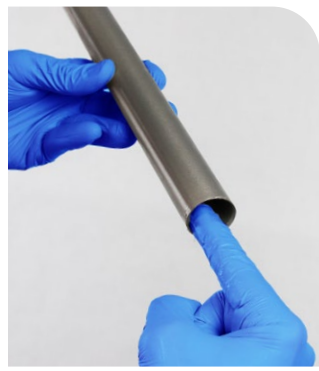






2 Apply grease to the inside of one end of the air tube, approximately 60 mm into the tube.



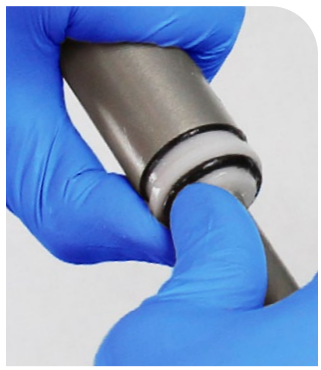


3 Insert the air spring assembly into the greased end of the air tube.





Push the 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 RockShox suspension oil into the air spring tube.

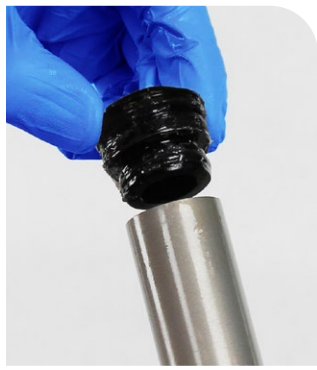
	Oil Weight (wt)	Air Spring Volume (mL)
Judy Silver	5	2
30 Silver		
Recon Silver RL		



5wt RockShox bleed syringe

6 Install the air top cap into the air tube.

Apply a small amount of grease to the top cap threads.





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.

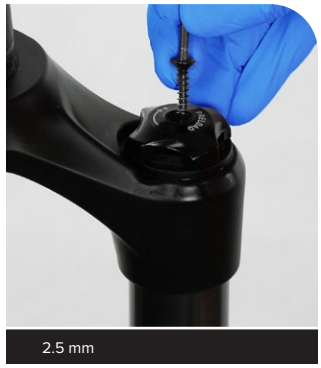


24 mm 12.4 N·m (110 in-lb)

200 Hour Service Continue the 200 Hour Service with Damper Service - Judy Silver, 30 Silver, Recon Silver RL, Recon Silver TK.

1 Remove the preload adjuster knob screw.

Remove the knob.

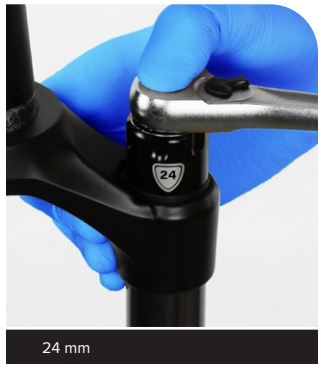




2 Press down firmly and squarely on the socket wrench and unthread the top cap.

NOTICE

To avoid damage to the top cap hex, use a socket with a flat sharp edged surface. File the edge of the 24 mm socket attachment flat as needed.

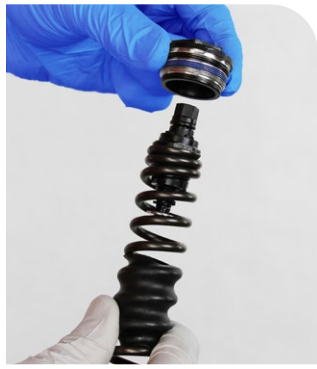




Remove the coil spring assembly.

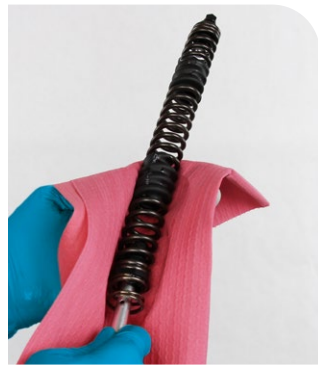
Remove the top cap from the coil spring.



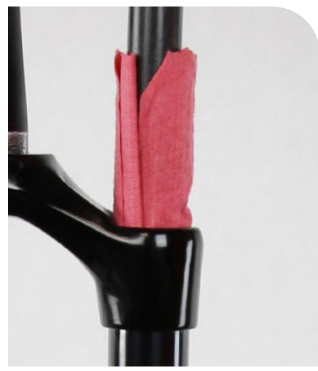


3 Clean the coil spring, and the inside and outside of the upper tube.



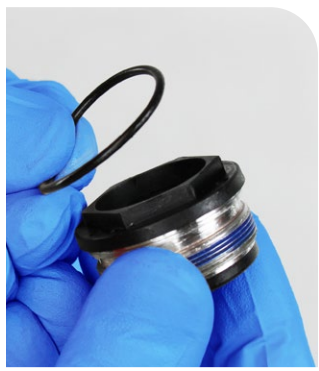






4 Remove the o-ring from the top cap.

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

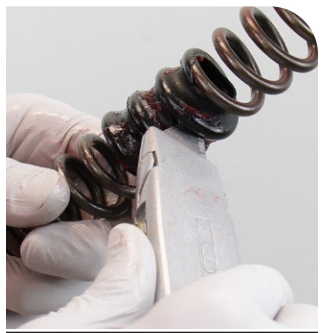




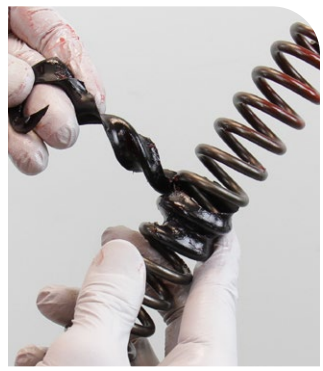
5 Cut and remove the spring isolators from the spring.

⚠WARNING

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



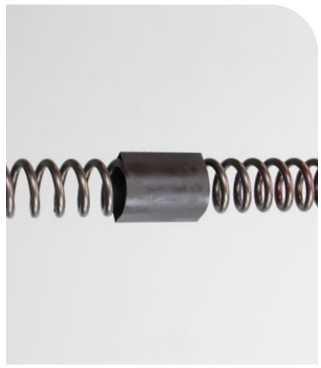
Box cutter



6 Install the new spring isolators in the same locations on the spring. 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.





Heat gun





7 Apply a liberal amount of grease to the coil spring.

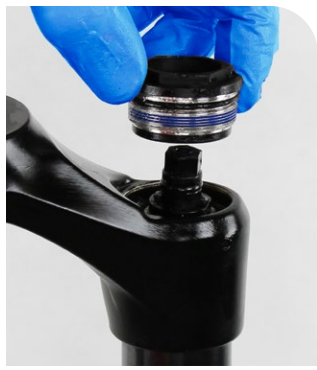


1 Insert the coil spring assembly into the upper tube.





2 Install the top cap onto the spring assembly.





Push down firmly and squarely and thread the top cap into the upper tube. Tighten the top cap.

NOTICE

To avoid damage to the top cap hex, use a socket with a flat sharp edged surface. File the edge of the 24 mm socket attachment flat as needed.



24 mm | 12.4 N·m (110 in-lb)

3 Install the preload adjuster knob.

Install the retaining screw and tighten it.



2.5 mm



2.5 mm | 1.4 N·m (12 in-lb)

200 Hour Service Continue the 200 Hour Service with Damper Service - Judy Silver, 30 Silver, Recon Silver RL, Recon Silver TK.

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 Liquid-O-Ring PM600 or SRAM Butter grease to the new seals and o-rings. If a brush is used to apply grease, confirm there are no loose bristles in the grease or on the part.



PM600



SRAM Butter

1 **Crown Adjust - Judy Gold RL / 30 Gold RL / Recon Gold RL:** Turn the compression adjuster knob counter-clockwise, to the full open position, until it stops.

Remove the compression knob retaining screw.

Remove the knob.

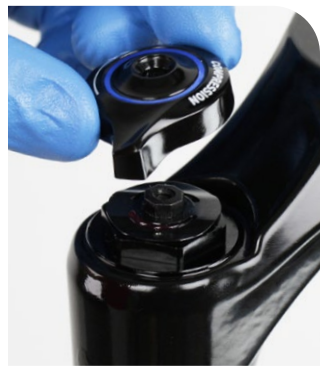


2.5 mm 2018

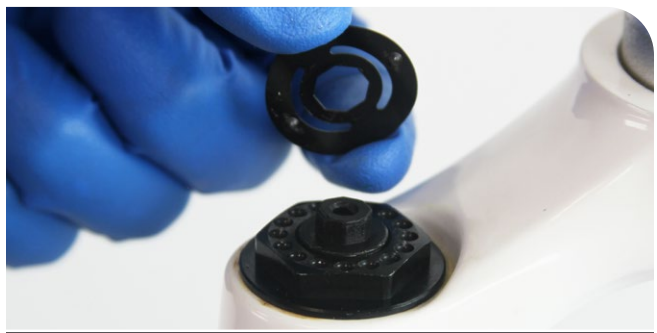




2.5 mm 2019+



Crown Adjust - Recon Gold RL: Remove the detent spring.



Recon Gold RL

2a **Remote - 2018 30 Gold RL R / 2018 Recon Gold RL R:** Remove the retaining screw and remote spool.



2.5 mm 2018 30 Gold RL R



2.5 mm 2018 Recon Gold RL R



2018 30 Gold RL R



2018 Recon Gold RL R

Remote - 2018 Recon Gold RL R: Loosen the remote cable stop clamp pinch bolt and remove the clamp.



2 mm 2018 Recon Gold RL R



2b **Remote - 2018-2019 Judy Gold RL R / 2019 30 Gold RL R / 2019 Recon Gold RL R:** Remove the retaining screw and remove the upper remote spool.



2.5 mm 2018-2019



Loosen the set screw and remove the remote cable stop collar.



2 mm 2018-2019



Remove the lower remote spool.

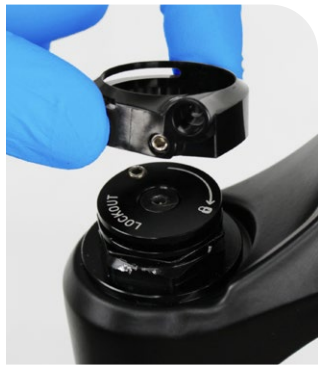




2c **Remote - 2020+ Judy Gold RL R / 2020 30 Gold RL R / 2020+ Recon Gold RL R:** Loosen the set screw and remove the remote cable stop collar.



2 mm 2020

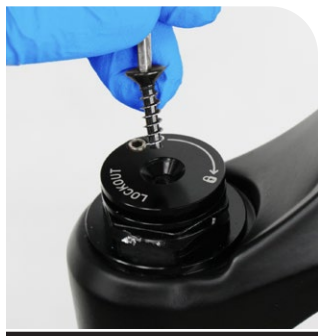




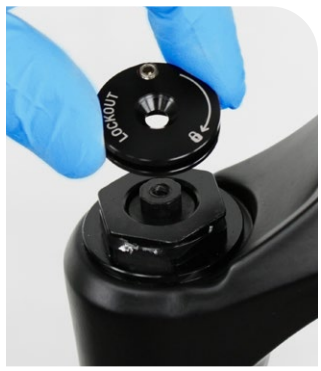
2 mm 2021+



Remove the retaining screw and remove the remote spool.



2.5 mm



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

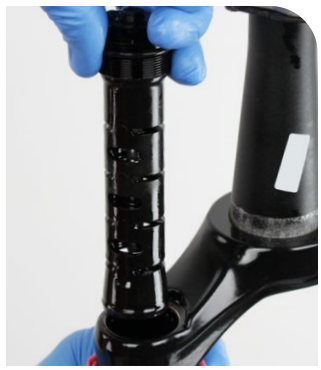
Remove the compression damper by pulling up firmly and slowly while gently rotating the damper in a circular motion. When the damper o-ring contacts the upper threads, twist the damper counter-clockwise to unthread the o-ring from the upper tube threads.

NOTICE

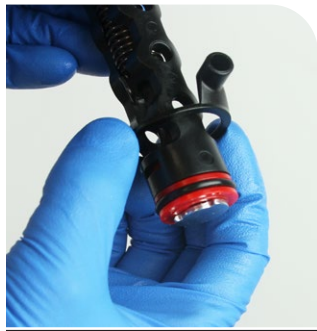
Do not force the damper out of the upper tube if there is resistance. This can cause separation of the piston from the damper tube.



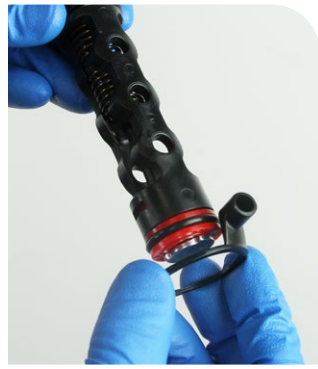
24 mm



4 **Remote - 2018 30 Gold RL R:** Remove the remote cable stop from the damper.



2018 30 Gold RL R



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



6 Clamp the fork into the work stand and push the rebound damper shaft into the upper tube to protect it while removing the retaining ring.

Remove the rebound damper seal head retaininer ring.

NOTICE

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



Retaining ring pliers



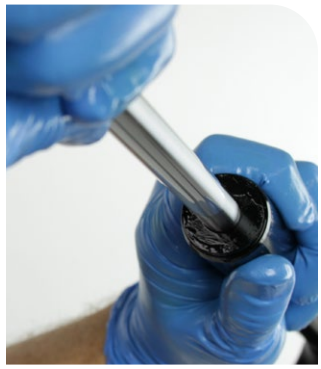
7 Thread the hollow bottom bolt onto the rebound damper shaft and pull the shaft out until it stops.

Remove the bolt.





8 Remove the rebound damper and seal head.





9 Clean the inside and outside of the upper tube and inspect it for scratches.

NOTICE

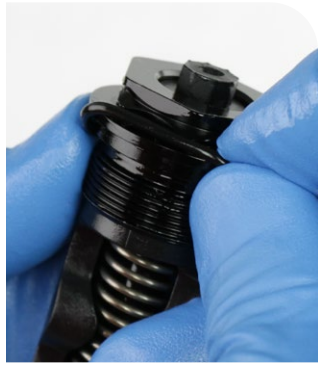
Scratches on the inside surface of the upper tube can cause oil to leak. If an internal scratch is visible, the crown steerer upper tube assembly may need to be replaced.

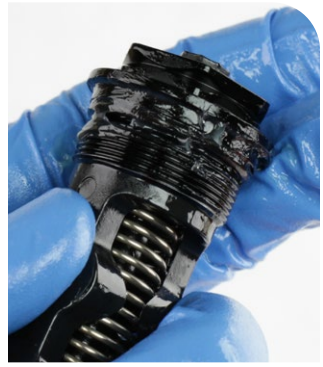


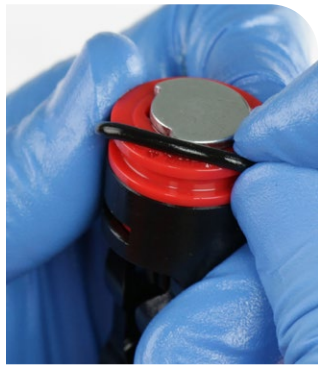


1 Remove the compression damper top cap and piston o-rings.

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









2 Remove the seal head.

Clean the 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.



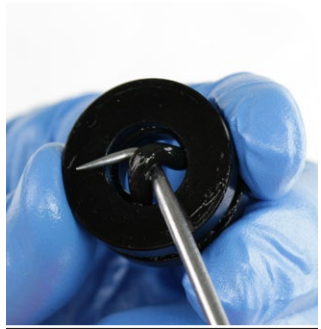


3 Remove the inner and outer seal head o-rings and discard them.

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

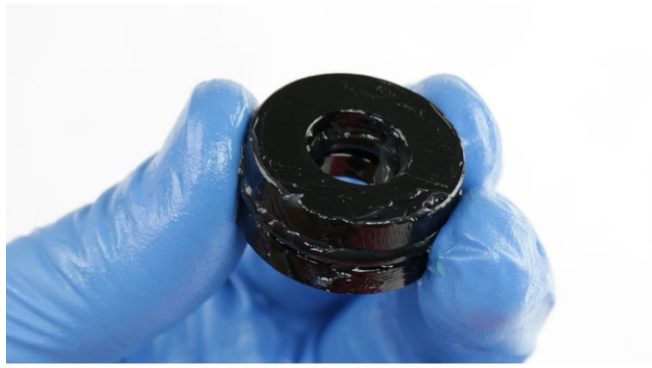
NOTICE

When using a pick to remove o-rings, do not scratch the seal head. Scratches will cause oil to leak.



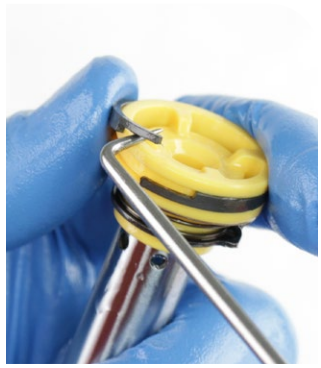
Pick

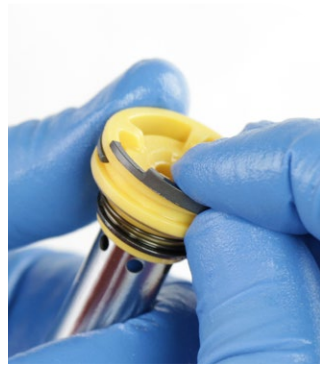




4 Remove the rebound damper piston glide ring and discard it.

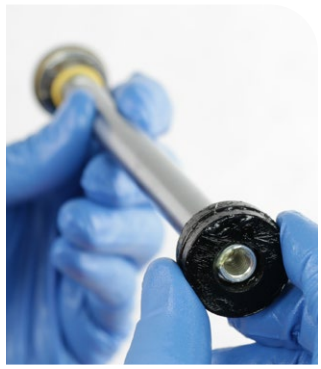
Install a new glide ring.







5 Install the seal head onto the rebound damper shaft.

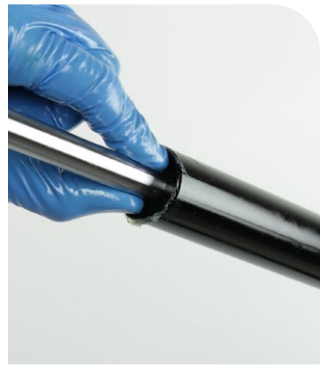




1 Insert the rebound damper and seal head into the upper tube.

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 the bottom bolt into the shaft.

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.

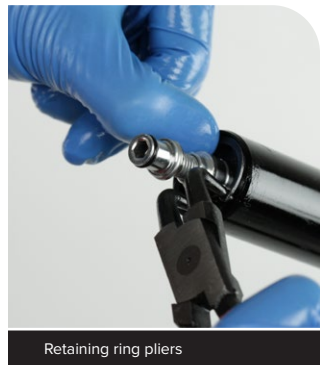
Install the retaining ring into the upper tube groove.

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.

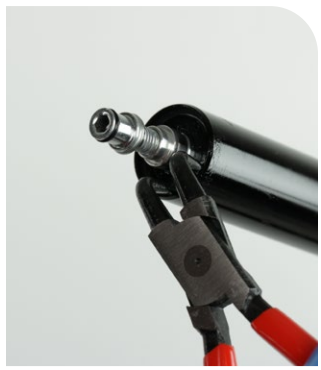
NOTICE

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





Retaining ring pliers





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



1 Pour 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.

	Model	Suspension Oil (wt)	Volume (mL)
Judy Gold (2018+)	RL - 27.5" Boost RL - 29" Boost	5	102
30 Gold (2018-2020)	RL - 26"		85
Judy Gold (2021+)	RL - 27.5", 29"		102
Recon Gold (2018+)	RL - 27.5", 27.5" Boost RL - 29", 29" Boost		130



5wt

2 **Crown Adjust - Judy Gold RL / 30 Gold RL / Recon Gold RL:** Use the compression adjuster knob to open the compression damper valve (A).

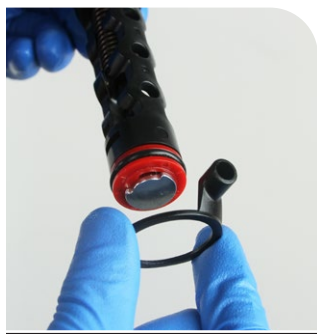
A closed compression valve will restrict oil flow during installation.



RL



3 **Remote - 2018 30 Gold RL R:** Insert the compression damper through the cable stop.



2018 30 Gold RL R



2018 30 Gold RL R

4 Apply a liberal amount of grease to the compression piston o-ring.



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





Remote - **2018 30 Gold RL R:** Position the remote cable stop to the forward position.



2018 30 Gold RL R



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



24 mm



24 mm | 12.4 N·m (110 in-lb)

7 **Crown Adjust - Recon Gold RL:** Apply a thin layer of grease onto the top cap detents.

Install the detent spring.





8 **Crown Adjust - Judy Gold RL / 30 Gold RL / Recon Gold RL:** Install the adjuster knob with the tab in the 7-8 o'clock, unlocked, position.

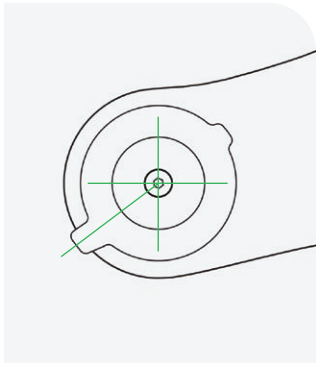


RL 2018



RL 2019+

Install and tighten the retaining screw.



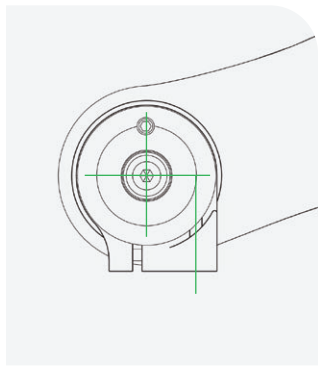


2.5 mm 1.4 N·m (12 in-lb)

9a **Remote - 2018 Recon Gold RL R:** Install the remote cable stop clamp onto the top cap with the housing guide in the 6 o'clock position.



2018 Recon Gold RL R



Tighten the pinch bolt.



2.5 mm 0.6 - 1.1 N·m (6 - 10 in-lb)

Install the remote spool with the cable set screw in the 7 to 8 o'clock position and tighten the retaining screw.

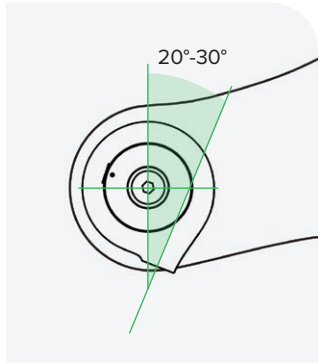


2.5 mm 1.4 N·m (12 in-lb)

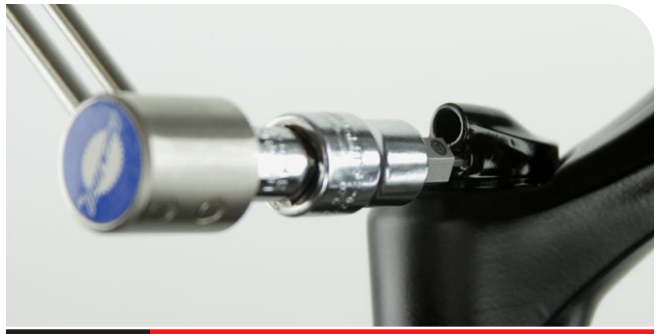
9b **Remote - 2018-2019 Judy Gold RL R / 2019 30 Gold RL R / 2019 Recon Gold RL R:** Install the cable stop collar with the housing guide in the 6 o'clock forward position, angled ≈20°-30° degrees from center.



2018-2019 RL R



Tighten the set screw.


2 mm | 0.25 - 0.6 N·m (2.2 - 5.3 in-lb)

Install the lower remote spool (A) onto the hex adjuster. Install the upper spool with the alignment indicator dot (B) positioned within the range bracket (C).



2018-2019 RL R



2018-2019 RL R

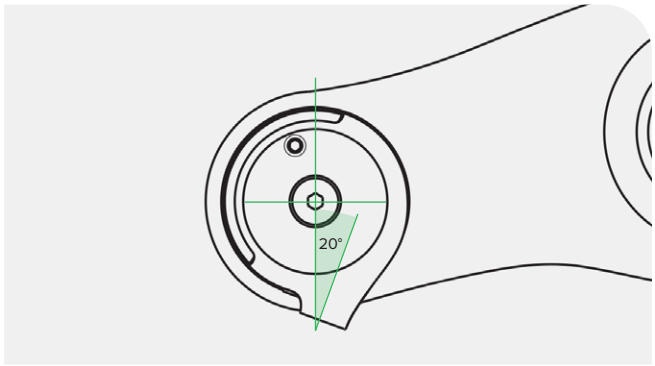
Install the spool retaining screw, thread it in and stop when it contacts the upper spool. Do not tighten the screw.



2 mm | 2018-2019 RL R

9c **Remote - 2020+ Judy Gold RL R / 2020 30 Gold RL R / 2020+ Recon Gold 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.



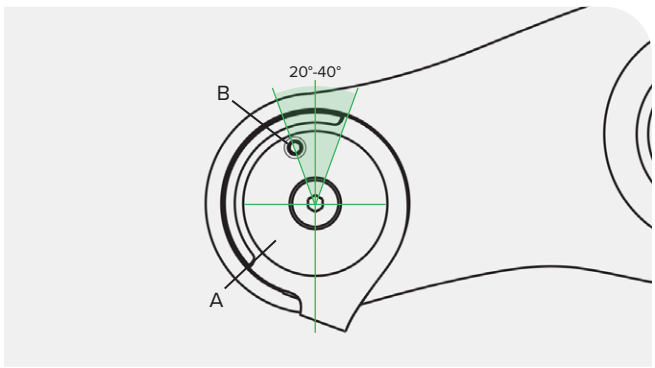
2 mm | 0.1 - 0.3 N·m (0.8 - 2.6 in-lb)



2 mm | 0.1 - 0.3 N·m (0.8 - 2.6 in-lb)

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.





2.5 mm | 2020



2.5 mm | 1.4 N·m (12 in-lb)



2.5 mm | 2021+



2.5 mm | 1.4 N·m (12 in-lb)

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

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

200 Hour Service Damper Removal

Service procedures are the same for Motion Control (RL) and Turnkey (TK) dampers.

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 Liquid-O-Ring PM600 or SRAM Butter grease to the new seals and o-rings. If a brush is used to apply grease, confirm there are no loose bristles in the grease or on the part.



PM600



SRAM Butter

1 **Crown Adjust - Judy Silver TK / 30 Silver TK / Recon Silver RL / Recon Silver TK:** Turn the compression adjuster knob to the full open position.

Remove the compression knob retaining screw.

Remove the knob.



2.5 mm 2018

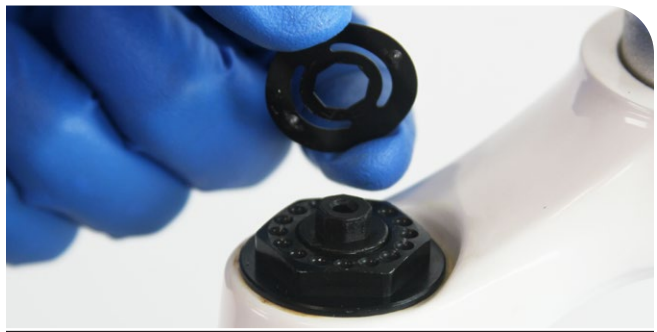




2.5 mm 2019+



Recon Silver RL: Remove the detent spring.



Recon Silver RL

2a **Remote - 2018 Judy Silver TK R / 2018 30 Silver TK R / 2018 Recon RL R / 2018 Recon TK R:** Remove the remote spool retaining screw and remote spool.



2.5 mm 2018



2b **Remote - 2019 Judy Silver TK R / 2019 30 Silver TK R / 2019 Recon RL R / 2019 Recon TK R:** Remove the retaining screw and remove the upper remote spool.



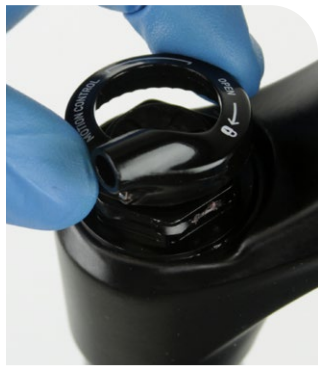
2.5 mm 2019



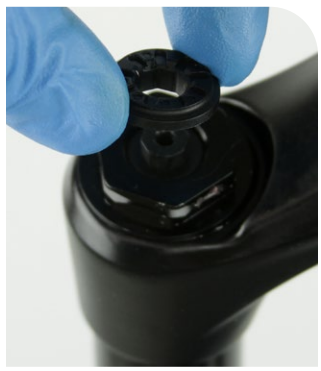
Loosen the set screw and remove the remote cable stop collar.



2 mm 2019



Remove the lower remote spool.

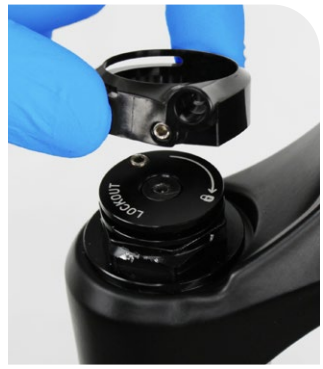




2c **Remote - 2020+ Judy Silver TK R / 2020 30 Silver TK R / 2020+ Recon RL R / 2020+ Recon TK R:** Loosen the set screw and remove the remote cable stop collar.



2 mm 2020

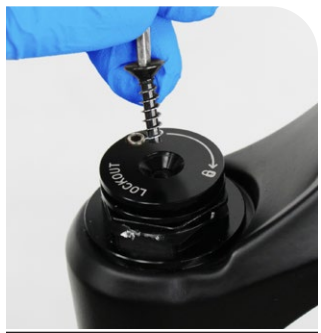




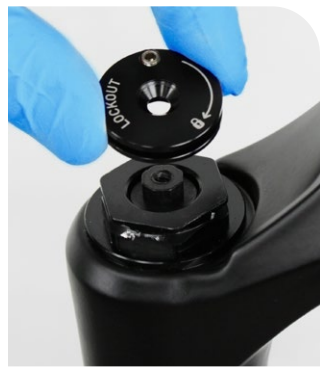
2 mm 2021+



Remove the retaining screw and remove the remote spool.



2.5 mm



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. When the damper o-ring contacts the upper threads, twist the damper counter-clockwise to unthread the o-ring from the upper tube threads.

NOTICE

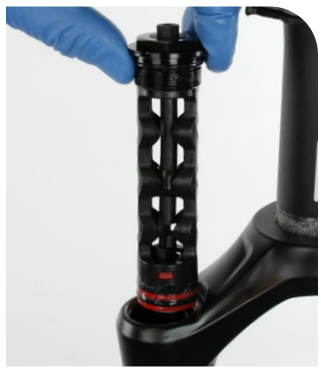
Do not force the damper out of the upper tube if there is resistance. This can cause separation of the piston from the damper tube.



24 mm








2018 RL R / TK R


2018 RL R / TK 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.

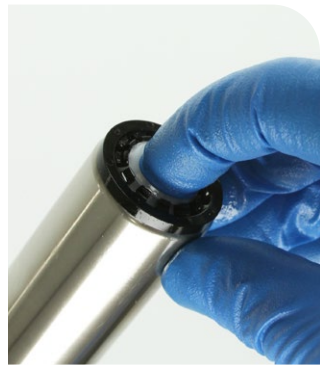
Push the rebound damper shaft into the upper tube and through the shaft guide. The damper will slide through the upper tube and exit through the crown into your hand.

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.





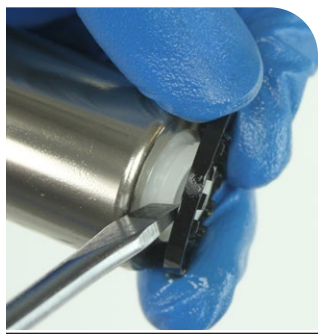




6 Carefully remove the seal head retainer with a flat blade screwdriver.

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.



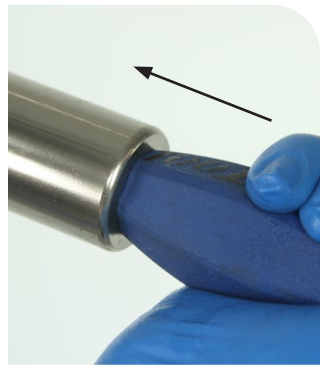
Flat blade screwdriver



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



Screwdriver handle

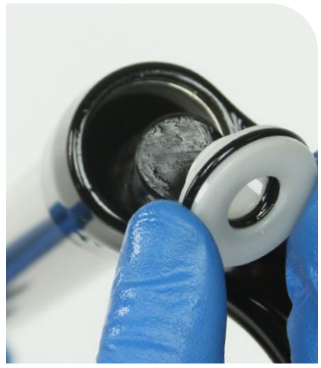


8 Use a long dowel (15 mm - 17 mm diameter) to push the seal head out of the upper tube through the crown.



Dowel (15 mm - 17 mm diameter)





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 air to leak. If an internal scratch is visible, the crown steerer upper tube assembly may need to be replaced.



1 Remove the compression damper top cap and piston o-rings.

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





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

Install a new glide ring.





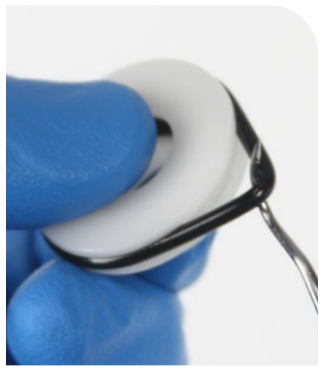
3 Remove the o-rings from the seal head.

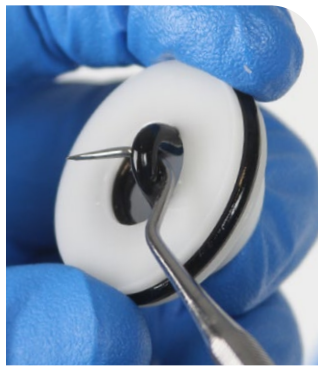
Install new o-rings onto the seal head.

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

NOTICE

Do not scratch the sealing surfaces. Scratches cause oil to leak.



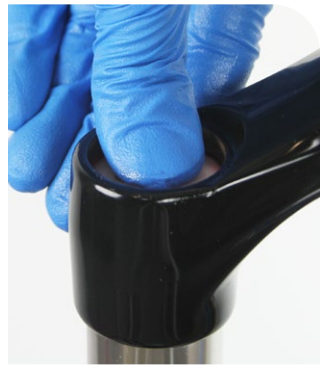


1 Insert the seal head into the upper tube through the crown, and push it down just below the upper tube threads. Use a dowel if needed.

NOTICE

Use care to avoid damaging the outer o-ring.





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



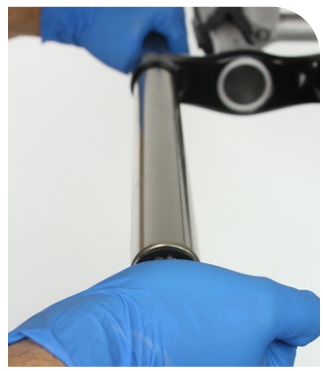
Dowel (15 mm - 17 mm diameter)



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



Dowel (≤10 mm diameter)



Dowel (15 mm - 17 mm diameter)

Push the damper into the upper tube until it stops.



Dowel (15 mm - 17 mm diameter)



1 Pour 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.

	Model	Suspension Oil (wt)	Volume (mL)
Judy Silver (2021+)	TK - 26"	5	100
	TK - 27.5" TK - 29"		123
			122
Judy Silver (2018+)	TK - 27.5" Boost TK - 29" Boost		122
30 Silver (2018-2020)	TK - 26"		100
	TK - 27.5"		122
	TK - 29"		123
Recon (2018+)	RL - 27.5", 29" (80-120 mm)		118
	RL - 27.5", 29" (130-140 mm)		150
	RL - 27.5" Boost RL - 29" Boost		140
	TK - 27.5", 29"		118
Recon (2020+)	TK - 27.5" Boost TK - 29" Boost		140



5wt

2 **RL / TK:** Verify the compression valve (A) is in the open position.

A closed compression valve will restrict oil flow during installation.

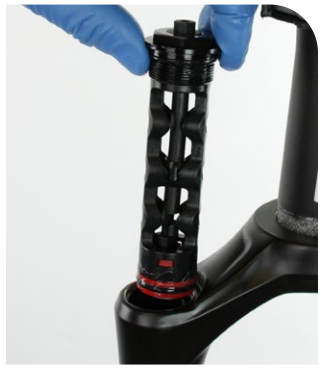




3 Apply a liberal amount of grease to the compression piston o-ring.



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





Remote - 2018 Judy Silver TK R / 2018 30 Silver TK R / 2018 Recon RL R / 2018 Recon TK R: Before installing the compression damper, Install and position the remote cable stop under the compression damper top cap and orient the stop forward. Proceed to step 6.



2018 RL R / TK R

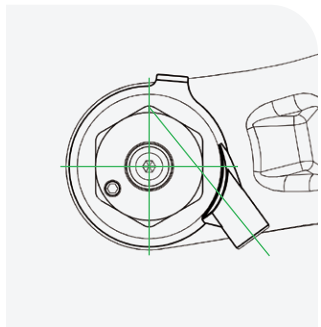


2018 RL R / TK R

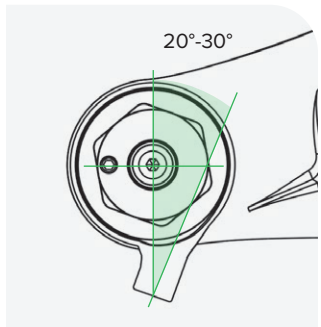
5 **Remote - 2018 30 Silver TK R / 2018 Recon RL R / 2018 Recon TK R:** Orient the remote cable stop with the housing guide in the forward 4 o'clock position.

2018 Judy Silver TK R: Orient the remote cable stop with the housing guide in the forward 6 o'clock position, angled ≈20°-30° degrees from center.

Thread the damper top cap into the upper tube.



2018 30 TK R / Recon RL R / Recon TK R



2018 Judy TK R

Tighten the top cap.





24 mm | 12.4 N·m (110 in-lb)

6 **Crown Adjust and 2019+ RL R / TK R**: Thread the top cap into the upper tube and tighten it to the specified torque. Press down firmly when tightening the top cap.



24 mm	12.4 N·m (110 in-lb)

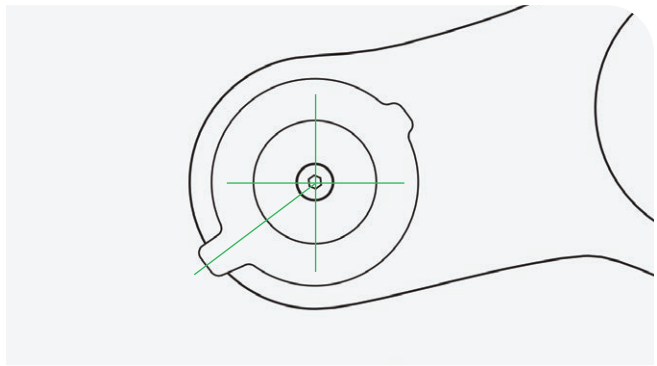
7 **Crown Adjust - Recon RL**: Apply a thin layer of grease onto the top cap detents.

Install the detent spring.





8 **Crown Adjust - RL / TK:** Install the compression adjuster knob with the tab in the 7-8 o'clock, unlocked position.





2018



2019+

Install and tighten the retaining screw.



2.5 mm 2018



2.5 mm 1.4 N·m (12 in-lb)



2.5 mm 2019+



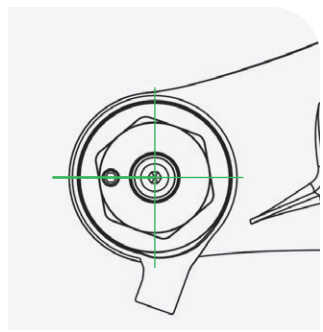
2.5 mm 1.4 N·m (12 in-lb)

9a **Remote - 2018 30 Silver TK R / 2018 Recon RL R / 2018 Recon TK R:** Install the remote spool with the cable set screw in the 8 o'clock position and tighten the retaining screw.

2018 Judy Silver TK R: Install the remote spool with the cable set screw in the 9 o'clock postion and tighten the retaining screw.



2018 30 TK R / Recon RL R / Recon TK R



2018 Judy TK R



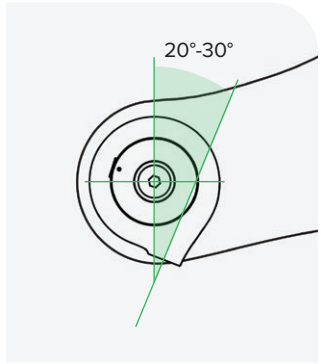


2.5 mm 1.4 N·m (12 in-lb)

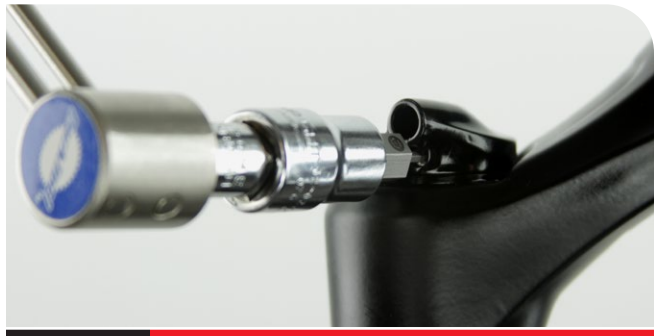
9b **Remote - 2019 RL R / 2019 TK R:** Install the cable stop collar with the housing guide in the 6 o'clock forward position, ≈20°-30° degrees from center.



2019 RL R / TK R



Tighten the set screw.



2 mm | 0.25 - 0.6 N·m (2.2 - 5.3 in-lb)

Install the lower remote spool (A) onto the hex adjuster. Install the upper spool with the alignment indicator dot (B) positioned within the range bracket (C).



2019 RL R / TK R



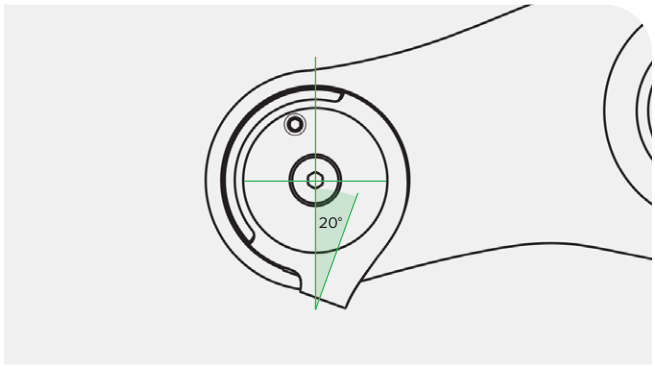
2019 RL R / TK R

Install the spool retaining screw, thread it in and stop when it contacts the upper spool. Do not tighten the screw.



2 mm | 2019 RL R / TK R

9c **Remote - 2020+ Judy Silver TK R / 2020 30 Silver TK R / 2020+ Recon RL R / 2020+ Recon 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.



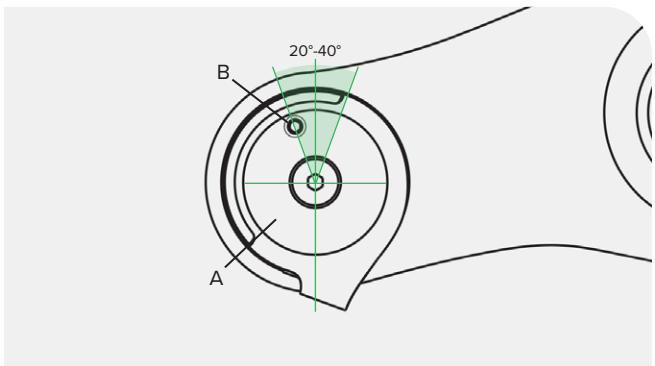
2 mm | 0.1 - 0.3 N·m (0.8 - 2.6 in-lb)



2.5 mm | 0.1 - 0.3 N·m (0.8 - 2.6 in-lb)

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.





2.5 mm | 2020



2.5 mm | 1.4 N·m (12 in-lb)



2.5 mm | 2021+



2.5 mm | 1.4 N·m (12 in-lb)

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 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.





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

Inject 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.



15wt RockShox bleed syringe

Model	Spring	Oil Weight (wt)	Damper Side Volume (mL)	Spring Side Volume (mL)
Judy Gold (26")	Solo Air	15	6	10
Judy Gold (27.5", 27.5" Boost, 29", 29" Boost)				6
Judy Silver (27.5", 29")				10
Judy Silver (27.5" Boost, 29" Boost)				6
Judy Silver (27.5", 29")	Coil			10
30 Gold (26", 27.5", 29")	Solo Air			
30 Silver (26", 27.5", 29")	Coil			
	Solo Air			
Recon Gold (27.5" Boost, 29" Boost)	Solo Air			6
Recon Silver RL (27.5", 27.5" Boost, 29", 29" Boost)				
Recon Silver TK (27.5", 27.5" Boost, 29", 29" Boost)	Coil			9

4 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.



5 **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.

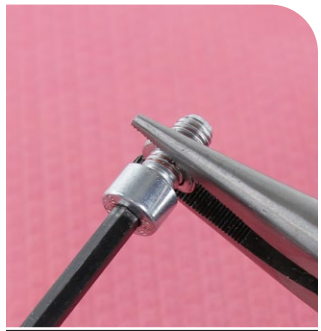
NOTICE

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.



5 mm Needle nose pliers



5 mm Needle nose pliers





6 Install the hollow bottom bolt into the damper shaft, and install the solid bottom bolt into the spring shaft.

Tighten each bolt.



5 mm



5 mm 7.3 N·m (65 in-lb)



5 mm

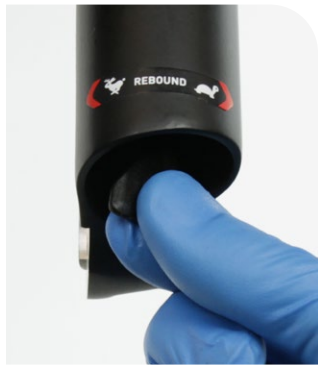


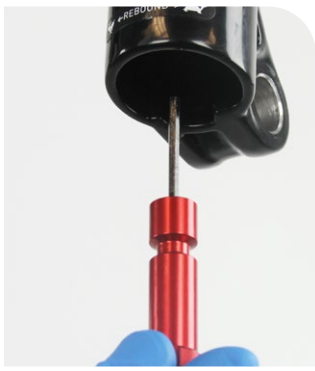
5 mm 7.3 N·m (65 in-lb)

7 Install the rebound adjuster knob onto the rebound damper bottom bolt.

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









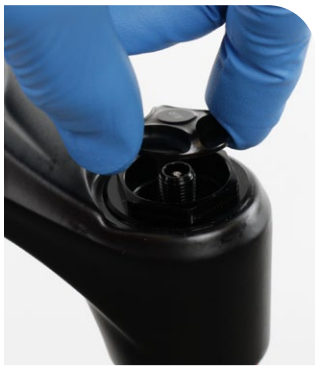
8 **Solo Air / DebonAir:** Refer to your pre-service recorded settings, or use the air chart on the fork's lower leg, and pressurize the air spring.

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 service of your RockShox suspension fork.

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