ROCKSHOX

SIDLUXE

2021-2023 SIDLuxe

SERVICE MANUAL

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!

⚠WARNING - PRESSURIZED DEVICE

Suspension products may contain pressurized air, nitrogen, springs, and oil.

Always wear certified safety glasses (ANSI Z87.1, EN166 EU) when performing any service on a suspension product (suspension fork, rear shock, seatpost). Failure to wear proper safety glasses can result in SERIOUS INJURY OR DEATH.

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.

Suspension Safety Precautions and Warnings

SAFETY INSTRUCTIONS

To avoid serious injury or death, you MUST understand and follow the safety information in this document.

⚠WARNING - PRESSURIZED DEVICE

Suspension products may contain pressurized air, nitrogen, springs, and oil.

Always wear certified safety glasses (ANSI Z87.1, EN166 EU) when performing any service on a suspension product (suspension fork, rear shock, seatpost).

DO NOT attempt to disassemble a suspension product before the product is fully depressurized. Follow depressurization procedures and remove the air valve as instructed, before attempting disassembly of a suspension product.

When performing service on a suspension product, keep your eyes, face, and body away from any part or lubricant that can suddenly eject under high pressure. DO NOT direct any pressurized suspension part at a person.

DO NOT attempt to puncture, crush, or incinerate any assembled suspension product.

Failure to follow these preventative measures can result in SERIOUS INJURY OR DEATH.

⚠WARNING - CRASH HAZARD

Parts must be tightened to the specified torque.

To avoid separation of parts, threadlocker must be applied as instructed. Failure to apply threadlocker could result in separation of the parts.

Retaining rings must be fully seated in the retaining ring groove. Confirm the retaining ring is fully seated in the retaining ring groove after installation.

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.

Failure to follow these preventative measures can result in SERIOUS INJURY OR DEATH.

⚠WARNING

Do not ingest oil, fluid, grease, lubricant, or cleaner. Ingestion could lead to SERIOUS INJURY OR DEATH. Seek immediate medical attention if any oil, fluid, grease, lubricant, or cleaner is ingested.

⚠CAUTION

Suspension products may contain lubricants which can lead to skin irritation. Always wear nitrile gloves when servicing suspension products. Failure to properly protect your skin can result in irritation. Seek medical attention if your skin is adversely affected by any suspension oil, fluid, grease, lubricant, and/or cleaner.

Always wear safety glasses. Do not allow oil, fluid, grease, lubricant, or cleaner to contact your eyes or face. Seek immediate medical attention if irritation occurs.

Use care when working with sharp tools and parts. Never use sharp tools coated with oil and/or grease. Clean and remove all oil and/or grease from your hands and gloves, and tools before working with any sharp tool or part. Failure to do so can result in personal injury.

Place an oil pan on the floor underneath the product during service to catch any drained or spilled fluids. To avoid a slip and fall, and possible injury or harm, immediately clean any oil, fluid, grease, or lubricant from the floor in your work area.

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Part Preparation and Service Procedures

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.

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

Service Procedures

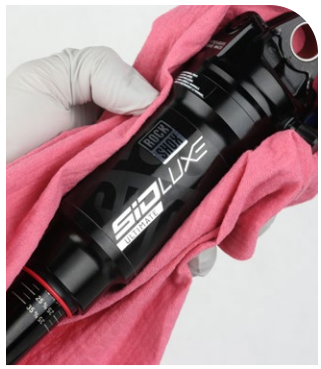
The following procedures should be performed throughout service, unless otherwise specified.

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

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

⚠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.

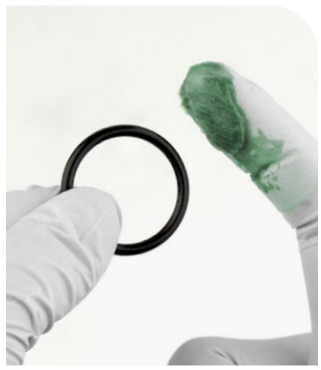


Replace the o-ring or seal with a new one from the service kit. Use your fingers or a pick to pierce and remove the old seal or o-ring.

Apply 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.

⚠WARNING - CRASH HAZARD

Parts must be tightened to the specified torque. Failure to do so can result in SERIOUS INJURY OR DEATH.

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-SIDL-SELP-A1**

RS = Product Type - **Rear Suspension**
SIDL = Platform/Series - **SIDLuxe**
SELP = Model - **Select+**
A1 = Version - (**A** - first 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.

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 shock damper body and wiper seal	Extends wiper seal lifespan
		Minimizes damage to shock damper body
		Minimizes air can contamination
Every 50 Hours	Perform air can service	Reduces friction
		Restores small bump sensitivity
Every 200 Hours	Perform damper and spring service	Extends suspension lifespan
		Restores suspension performance

Record Your Settings

Use the charts below to record your shock settings to return your shock to its pre-service settings. Record your service date 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
SIDLuxe Bottomless Token	2 mm hex	0.68 N•m (6 in-lb)
Piston bolt	18 mm cone wrench/crowfoot	4.5 N•m (40 in-lb)
Spool cup	19 mm, 5 mm hex	2.8 N·m (25 in-lb)
Seal head/air piston	19 mm crowfoot	28 N•m (248 in-lb)
Air can	13 mm crowfoot, strap wrench	10 N•m (90 in-lb)
	54 mm crowfoot, strap wrench	
Cable set screw	2 mm hex	0.9 N•m (8 in-lb)

Parts, Tools, and Supplies

Parts

- 2021-2023 (A1) SIDLuxe 50 or 200 Hour Service Kit

Safety and Protection Supplies

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

Lubricants and Fluids

- Maxima PLUSH 7wt Suspension Oil
- Maxima Extra 15w50 Suspension Oil or Maxima PLUSH Dynamic Suspension Lube Light
- RockShox Suspension Cleaner or Isopropyl alcohol
- RockShox Dynamic Seal Grease

Bicycle Tools

- Schrader valve core tool
- High Pressure Shock Pump 600 psi

RockShox Tools

- RockShox 1/2" x 1/2" rear shock bushing removal/installation tool
- RockShox SIDLuxe Air Valve Adapter Tool
- SIDLuxe IFP Height Tool
- SIDLuxe Body Vise Block

Common Tools

- Adjustable wrench
- Bench vise with aluminium soft jaws
- Cable and housing cutters
- Cone wrench: 18 mm
- Crowfoot socket wrenches: 13 mm, 18 mm, 19 mm, 54 mm
- Flat blade screwdriver
- Hex wrenches: 2 mm, 2.5 mm, 5 mm
- Hex bit sockets: 2 mm, 5 mm
- Open end wrenches: (2) 13 mm, 19 mm, 54 mm
- Pick
- Strap wrench
- Torque wrench

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

⚠WARNING

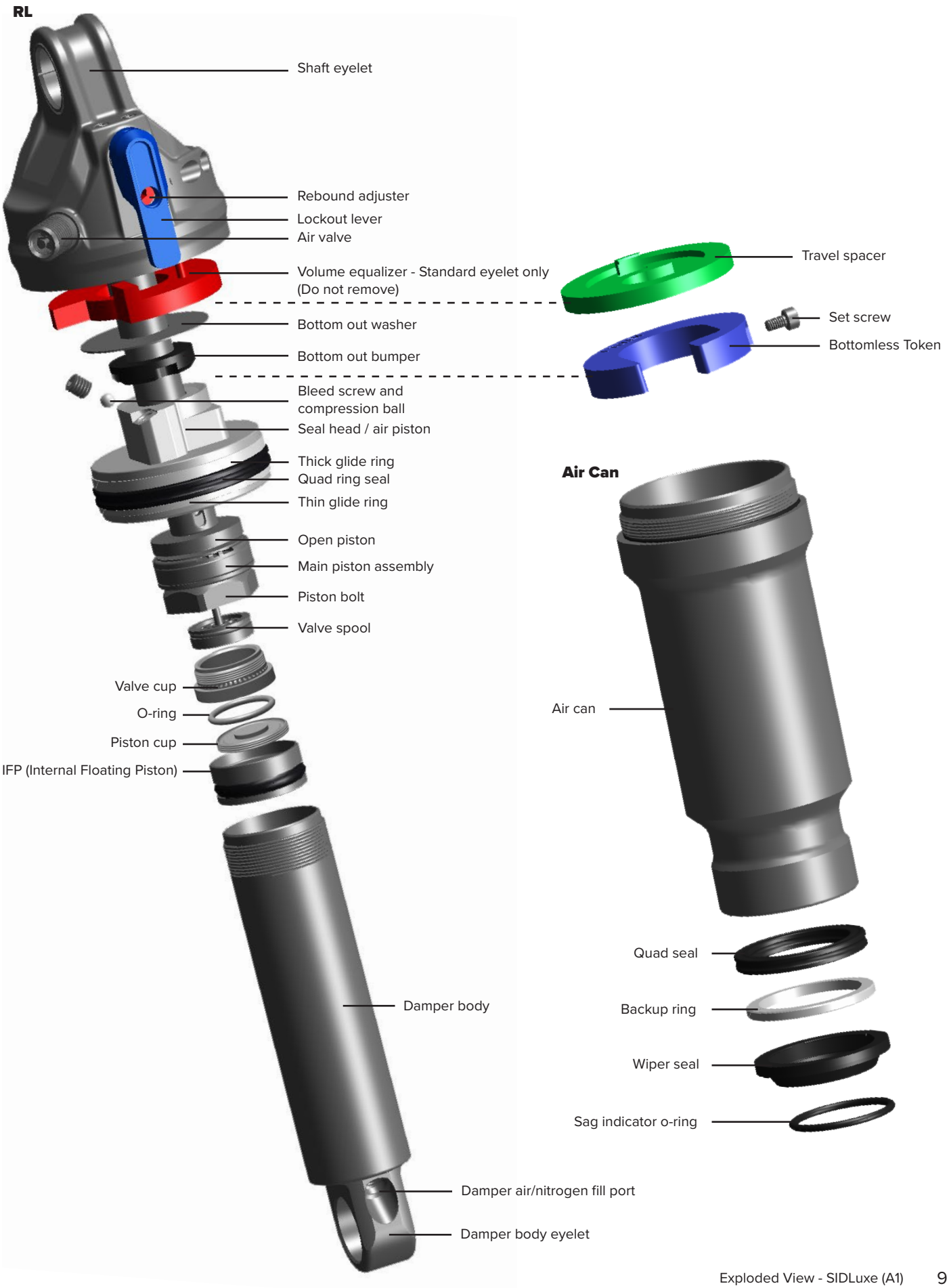
Before disassembly or service of any air system remove the air pressure from all air chambers and remove the air valve cores, unless otherwise instructed.

If your shock will not return to full extension, do not attempt to service or disassemble your shock. Attempting to service a shock that will not return to full extension can cause severe and/or fatal injuries.

SAFETY INSTRUCTIONS

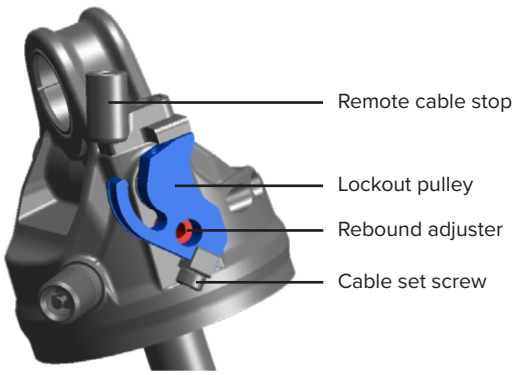
Always wear safety glasses and nitrile gloves when working with suspension oil.

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


RL
Shaft eyelet
Rebound adjuster
Lockout lever
Air valve
Volume equalizer - Standard eyelet only
(Do not remove)
Travel spacer
Set screw
Bottomless Token
Bottom out washer
Bottom out bumper
Bleed screw and
compression ball
Seal head / air piston
Thick glide ring
Quad ring seal
Thin glide ring
Open piston
Main piston assembly
Piston bolt
Valve spool
Valve cup
O-ring
Piston cup
IFP (Internal Floating Piston)
Air Can
Air can
Quad seal
Backup ring
Wiper seal
Sag indicator o-ring
Damper body
Damper air/nitrogen fill port
Damper body eyelet

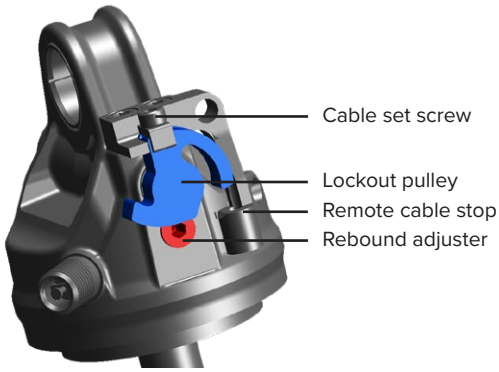
Remote: Out

Shocks that route the cable away from the shock are called "out" shocks.



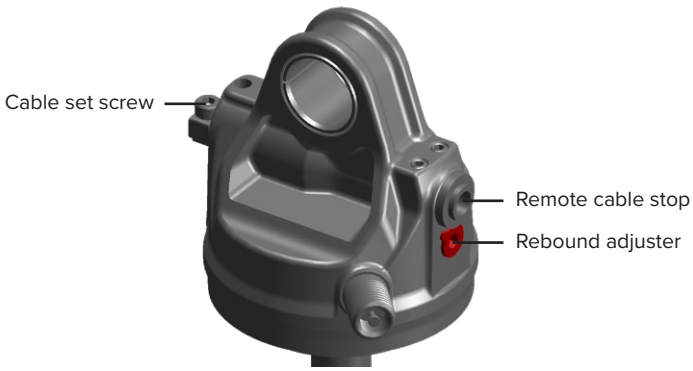
Remote: In

Shocks that route the cable toward the shock are called "in" shocks.



Remote: 90˚

Shocks that route the cable through the eyelet are called "90˚" shocks.



Remote Cable and Housing Removal - Remote Only

Prior to servicing the rear shock, remove the remote cable and housing from the shock, then remove the shock from the bicycle frame according to the bicycle manufacturer's instructions. For different remote cable routing options, consult the *Remotes (OneLoc and TwistLoc) User Manual* at www.sram.com/service. Replace the cable and housing after performing shock service (see the Remote Cable and Housing Installation section).

Parts, Tools, and Supplies

Safety and Protection Supplies

- Nitrile gloves
- Safety glasses

Common Tools

- Cable and housing cutters
- Hex wrench: 2 mm

Remote Cable and Housing Removal

1 Unlock the remote, if locked.

Cut the cable and loosen the set screw, then remove the cable from the eyelet.

Discard the cable and housing, if needed.

Cable and housing cutters

2 mm

90˚ remote shocks: For 200 hour service, a cable needs to be installed in the eyelet to keep the eyelet assembly together during service. Once the shock has been removed from the bicycle frame, install the cable into the remote cable stop, with the cable head pulled taut against the eyelet, and tighten the set screw.

90˚ remote shocks

90˚ remote shocks 2 mm

Shock Eyelet Service

Mounting Hardware and Bushing Service

Prior to servicing the rear shock, remove it from the bicycle frame according to the bicycle manufacturer's instructions. Once the shock is removed from the bicycle, remove the mounting hardware before performing any service.

Parts, Tools, and Supplies

Parts

- 2021-2023 (A1) SIDLuxe 50 or 200 Hour Service Kit

Safety and Protection Supplies

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

RockShox Tools

- RockShox 1/2" x 1/2" rear shock bushing removal/installation tool

Lubricants and Fluids

- RockShox Dynamic Seal Grease

Common Tools

- Bench vise with aluminium soft jaws
- Open end wrenches: 13 mm (2)
- Adjustable wrench

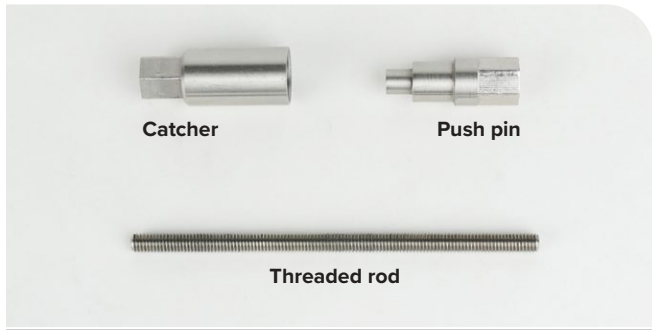
Mounting Hardware Removal

NOTICE

To prevent damage to the shock, use aluminium soft jaws and position the eyelet in the vise so that the remote cable stop and adjustment knobs are clear of the vise jaws.

Some mounting hardware is easily removed using only your fingers. Try to remove the end spacers with your fingernail or small screwdriver, then push the bushing pin out of the bushing. If this works, continue to the next section.

If you are unable to remove the mounting hardware using your fingers, use the RockShox rear shock bushing removal/installation tool.



Rear shock bushing removal/installation tool

1 Thread the small end of the push pin onto the threaded rod until the rod is flush or slightly protrudes from the hex-shaped end of the push pin.

2 Insert the threaded rod through the shaft eyelet until the push pin rests against the bushing pin.

Thread the large, open end of the catcher along the rod until it rests on the end spacer.

3 Clamp the catcher in a vise or hold it secure with a 13 mm open end or adjustable wrench.

NOTICE

Do not scratch the air can as you turn the wrench.

Use a second 13 mm wrench to thread the push pin along the rod until it stops against the end spacer.

Unthread the push pin from the threaded rod to remove the end spacer and the bushing pivot pin.

4 If the bushing pin does not remove easily, reinsert the threaded rod and push pin back through the eyelet shaft.

Thread the large, open end of the catcher along the rod until it rests against the shaft eyelet.

Use a 13 mm wrench to thread the push pin along the rod until it stops against the end spacer.

5 Unthread the catcher from the threaded rod.

Remove the end spacer and bushing pin from the tool.

Repeat steps 2-4 for the damper eyelet.

Set the mounting hardware aside until you have finished servicing the shock.

Eyelet Bushing Removal

To replace damaged or worn out bushings, use the RockShox rear shock bushing removal/installation tool.

1 Insert the threaded rod through the shaft eyelet until the base of the push pin rests against the bushing.

Thread the large, open end of the catcher onto the rod until it rests on the eyelet.

2 Clamp the catcher in a vise or hold it secure with a 13 mm wrench.

Use a second 13 mm wrench to thread the push pin along the rod until the push pin pushes the eyelet bushing out of the eyelet.

3 Unthread the catcher from the threaded rod. Remove the tool from the shaft eyelet and discard the old bushing.

Repeat steps 1-3 for the other eyelet.

Set the bushings aside until you have finished servicing your shock.

To replace the eyelet bushings and mounting hardware, go to Shock Eyelet Assembly.

SIDLuxe Service

Prior to servicing your rear shock, remove it from the bicycle frame according to the bicycle manufacturer's instructions. Once the shock is removed from the bicycle, remove the mounting hardware before performing any service (see the Mounting Hardware and Bushing Service section).

Parts, Tools and Supplies

Parts

- 2021-2023 (A1) SIDLuxe 50 or 200 Hour Service Kit

Safety and Protection Supplies

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

Lubricants and Fluids

- Maxima PLUSH 7wt Suspension Oil
- Maxima Extra 15w50 Suspension Oil or Maxima PLUSH Dynamic Suspension Lube Light (Pillow pack included in service kit)
- RockShox Suspension Cleaner or Isopropyl alcohol
- RockShox Dynamic Seal Grease (Pillow pack included in service kit)

Bicycle Tools

- Schrader valve core tool
- High Pressure Shock Pump 600 psi

RockShox Tools

- RockShox SIDLuxe Air Valve Adapter Tool
- SIDLuxe IFP Height Tool
- SIDLuxe Body Vise Block

Common Tools

- Bench vise with aluminium soft jaws
- Cone wrench: 18 mm
- Crowfoot socket wrenches: 13 mm, 18 mm, 19 mm
- Flat blade screwdriver
- Hex wrenches: 2 mm, 2.5 mm, 5 mm
- Hex bit sockets: 2 mm, 5 mm
- Open end wrenches: 13 mm, 19 mm
- Pick
- Strap wrench
- Torque wrench

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

⚠WARNING

Before disassembly or service of any air system remove the air pressure from all air chambers and remove the air valve cores.

If your shock will not return to full extension, do not attempt to service or disassemble your shock. Attempting to service a shock that will not return to full extension can cause severe and/or fatal injuries. Send the shock to an authorized RockShox dealer for further service.

SAFETY INSTRUCTIONS

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

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

1 To record your adjustment settings, rotate the red rebound adjuster counter-clockwise until it stops, while counting the number of detent clicks. This will assist you with post-service set up.

Remote: The blue compression circuit is unlocked by default once the remote cable is removed.

RL: Rotate the blue compression lever to the unlocked position.

Remote 2.5 mm

RL 2.5 mm

RL

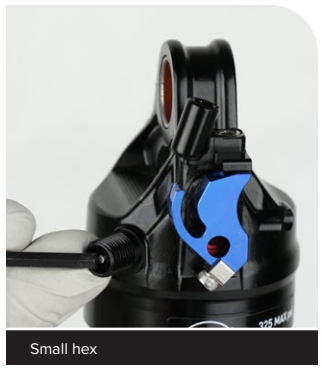
2 Record your air pressure setting to assist with post-service set up.

Remove the air valve cap by hand. Lightly depress the Schrader valve and slowly release all air pressure from the air can.

⚠CAUTION

Slowly release the air from the air can to make sure the air is removed from both chambers. Quickly releasing the air can trap air in the negative chamber and cause the air can to forcefully eject from the shock upon disassembly.

Do not disassemble a pressurized shock, this can cause suspension fluid or debris to forcefully eject from the shock. Wear safety glasses.



Small hex

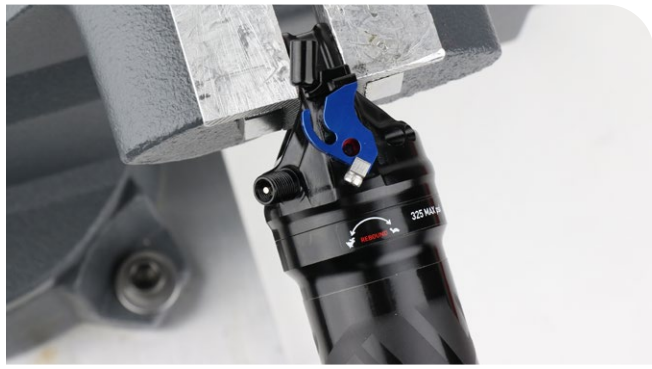
Use a Schrader valve tool to remove and reinstall the valve core from the valve body to make sure all air has been removed.

Schrader valve tool

3 Clamp the shaft eyelet into a vise, with the shock positioned horizontally.

NOTICE

To prevent damage to the shock, use aluminium soft jaws and position the eyelet in the vise so that the remote cable stop and adjustment knobs are clear of the vise jaws.



4 Remove the sag indicator.

5 Insert a shop towel through the damper body eyelet to prevent the air can from forcefully ejecting from the shock.

⚠CAUTION- EYE HAZARD

The air can may still have air pressure in the negative chamber, which may cause the air can to forcefully eject from the shock upon disassembly. Wear safety glasses.

6 Use a strap wrench to remove the air can. Wrap the strap around the section of the air can furthest from the shaft eyelet. Turn the wrench counter-clockwise to unthread the air can.

Vacuum pressure will increase as you pull the air can along the damper body, and will suddenly release when the air can is pulled over the air piston.

Slowly pull the air can along the damper body, remove the shop towel, and remove the air can.

NOTICE

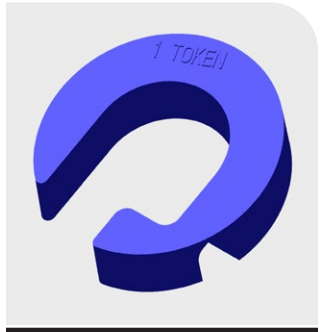
Do not place the strap wrench on the air can decal.

Strap wrench

Bottomless Tuning

Bottomless Tokens reduce air volume in your rear shock and create greater progression at the end of the shock's travel. Add or remove Tokens to tune your shock's bottomless feel.

Bottomless Tokens	(1) 1 Token or (1) 2 Token max



1 Token

2 Token

Bottomless Token Installation: Clamp the damper body eyelet into the vise.

Align the set screw openings on the Token and the seal head/air piston, then slide the Token onto the seal head/air piston. Install the set screw and tighten.


Bottomless Token


2 mm | 0.68 N·m (6 in-lb)

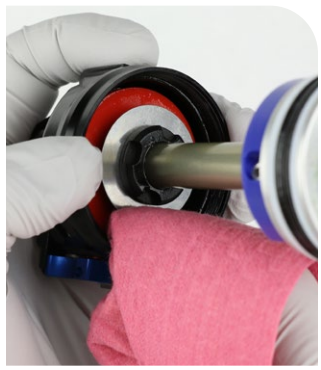
Token Removal: Clamp the damper body eyelet into the vise.

Loosen and remove the Token set screw, then remove the Token from the shaft.


2 mm


Bottomless Token

1 Remove the o-ring on the outside of the air can.
Clean the air can threads and eyelet body threads.
Apply a light layer of grease and install a new o-ring.



2 Remove the air can wiper seal located in the top groove.

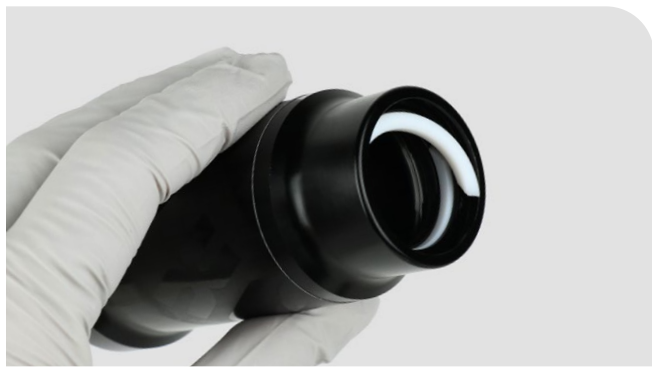
3 Remove the backup ring from the second groove inside the air can.

4 Pierce and remove the quad seal from the bottom of the second groove in the air can.

5 Clean the inside of the air can. Remove a glove and use your finger to inspect the inside and outside of the air can for scratches, dents, or other surface deformations. Replace the air can if it is scratched or damaged.

6 Install a new quad seal by inserting one end into the deepest groove in the air can, then push the remainder of the ring into the groove.

7 Install a new backup ring by inserting one end into the air can, then push the remainder of the ring into the can so that it rests on top of the quad seal.



8 Orient the new wiper seal step side up. Install it into the wiper seal groove at the top of the air can.

9 Apply a small amount of RockShox Dynamic Seal Grease to the quad seal, backup ring, and wiper seal.

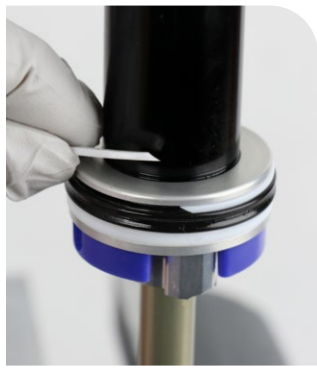
Set the air can aside.

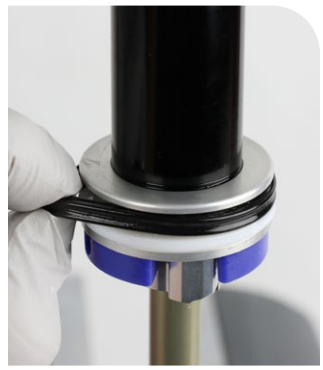
10 Clamp the shaft eyelet vertically in the vise.

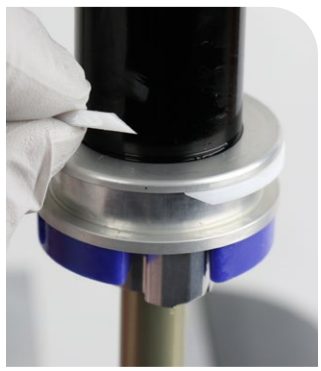
Remove the seal head/air piston quad ring seal and glide rings.

Clean the seal head/air piston.

Install a new quad ring seal and glide rings in the following orientation: the thick glide ring closest to the shaft eyelet, the seal head/air piston quad ring seal in the middle, and the thin glide ring closest to the damper body eyelet.







To continue with the **50 Hour Service** go to Air Can Installation.

To continue with the **200 Hour Service** go to Damper Body Service.

1 Remove the damper air/nitrogen fill port cap. Depress the Schrader valve and release all air pressure from the damper.

Once the pressure has been released, depress the Schrader valve a second time. If the Schrader valve is able to move, the shock has been completely depressurized.

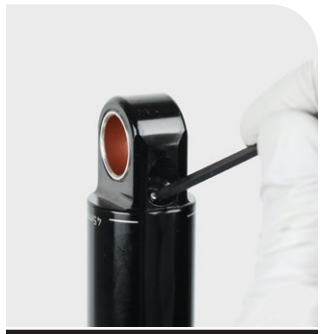
If the Schrader valve does not move at all, the shock is still pressurized and will need to be sent to an authorized RockShox dealer for further service.

⚠WARNING - PRESSURIZED DEVICE

Always wear certified safety glasses (ANSI Z87.1, EN166 EU).

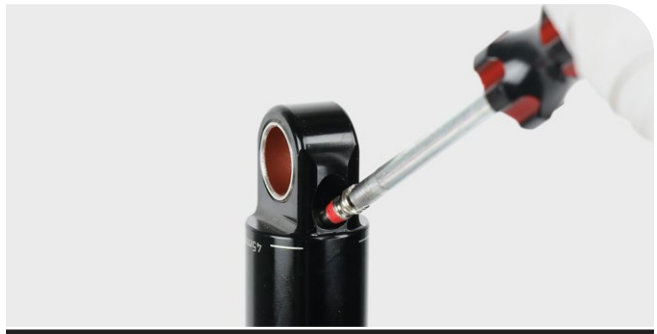
Verify all air pressure is removed from the suspension component. Failure to do so can result in SERIOUS INJURY OR DEATH. Refer to the Suspension Safety Precautions and Warnings section for detailed Pressurized Device warnings and instructions.

Schrader valve tool



Small hex

2 Remove the Schrader valve core from the damper air/nitrogen fill port.



Schrader valve tool

3 Remove the Bottomless Token, if installed.

2 mm

Bottomless Token

4 Clamp the damper eyelet into the vise.

5 Remove the bleed screw, located in the seal head/air piston.

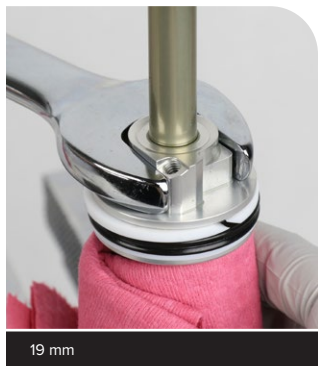
6 Wrap a shop towel around the damper body.

Loosen the seal head/air piston assembly from the damper body and remove the assembly.

⚠CAUTION - EYE HAZARD

If fluid is foaming from the damper body when the seal head/air piston is loosened, the IFP seal has failed and the fluid inside the damper is pressurized. This can cause the seal head/air piston assembly and damper fluid to forcefully eject from the damper body. Cover the seal head/air piston assembly with a shop towel and slowly loosen the assembly to allow the pressurized fluid to leak out between the damper body and seal head/air piston assembly.

Fluid will spill from the damper body.



7 Remove the damper body from the vise and pour the fluid into an oil pan.

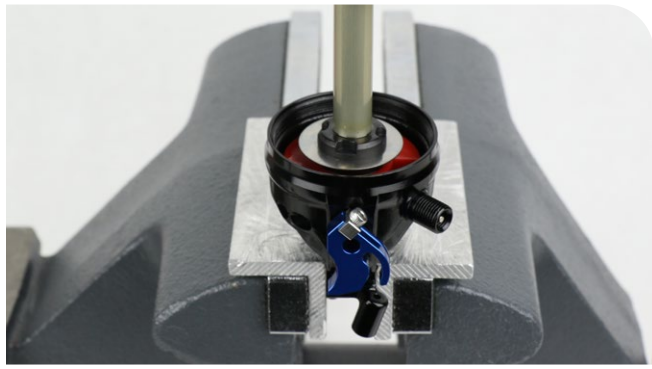
1 **90˚ remote shocks:** Make sure a shift cable is installed in the eyelet during piston and damper service.

2 mm

2 Clamp the shaft eyelet into the vise.

NOTICE

Remote shocks: To prevent damage to the shock, use aluminium soft jaws and position the eyelet in the vise so that the remote cable stop and lockout pulley are clear of the vise jaws.



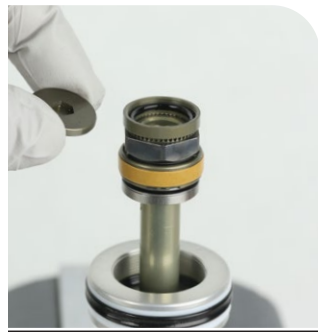
3 Move the seal head/air piston assembly down.

Hold the piston assembly in place and remove the piston cap and valve cup**.** Set the valve cup and piston cap aside.

The piston cap may loosen instead of the valve cup. Both instances are normal. Set it aside and continue to the next step.

18 mm cone wrench 5 mm

Valve cup and piston cap



Piston cap

4 Loosen the piston bolt, then remove the piston assembly.

Be sure to keep the main piston assembly parts in the same order.

NOTICE

Keep all the parts together and set them aside. If the main piston assembly is disassembled, it will need to be replaced.

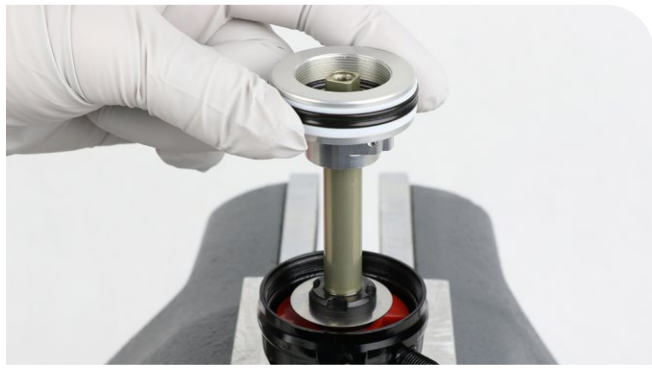
18 mm cone wrench

NOTICE

Do not allow the detent ball to separate from the compression rod. If the detent ball does seaparate from the compression rod, apply grease to the detent ball and install it.

Detent ball

5 Remove the seal head/air piston.



6 Remove the bottom out bumper and the bottom out washer from the damper shaft.

7 Use a flat blade screwdriver to release the tabs on the travel spacer, if installed. Do **not** remove the volume equalizer, if installed.

Not all shocks have travel spacers or volume equalizers installed.

NOTICE

Do not scratch the damper shaft or eyelet threads when removing the travel spacer. Scratches can cause leaks.

Flat blade screwdriver

Flat blade screwdriver

8 Remove the o-ring located inside the shaft eyelet threads.

Apply a light layer of grease and install a new o-ring inside the shaft eyelet threads.

9 Install the travel spacer, if included, then install the bottom out spacer and bottom out bumper.

Remove the shock from the vise.

10 Pierce and remove the internal seal o-ring located in the internal seal gland of the seal head/air piston.

Apply grease and install a new internal seal o-ring into the seal gland.

11 Remove the inner o-ring, located at the base of the threads in the seal head/air piston.

Apply grease and install a new inner o-ring into the seal head/air piston.

12 Gently clamp the seal head into the vise. Push the compression ball out of the backside of the seal head through the bleed port.

Do not replace the compression ball at this time; you will replace it later.

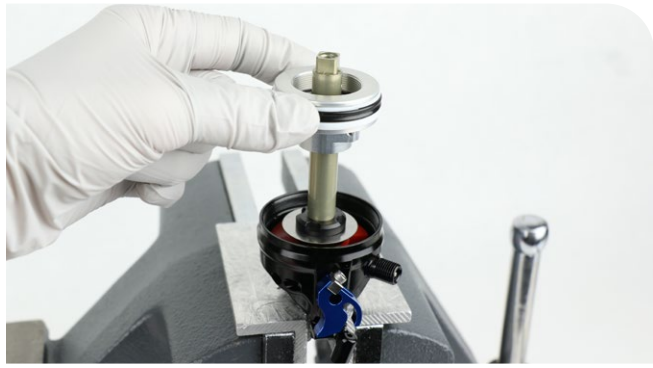
Do not reuse the compression ball.

1.5 mm

13 Clamp the shaft eyelet into a vise and install the seal head/air piston onto the damper shaft.

NOTICE

Remote shocks: To prevent damage to the remote cable stop, position the eyelet in the vise so that the remote cable stop is clear of the vise jaws.

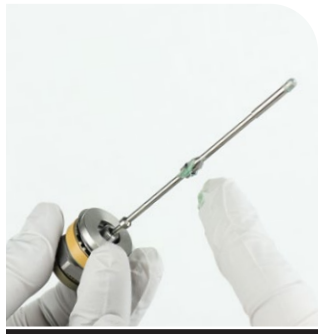


14 Remove the o-ring from the middle of the compression rod on the main piston assembly.

Install a new o-ring.

Apply a thin layer of grease to the detent ball and the middle o-ring on the compression rod.

RockShox Dynamic Seal Grease



RockShox Dynamic Seal Grease

15 Install the main piston assembly into the damper shaft.

The open piston can only be installed one way; rotate the open piston until it settles into place on the shaft. Use your fingers to squeeze the shims and center the shim stack until the rest of the piston assembly settles into place.

Tighten the piston bolt.

Be sure to keep the main piston assembly parts in the same order.

NOTICE

If the shims are not centered and in the correct order, the shock will not perform properly.

⚠WARNING - CRASH HAZARD

Parts must be tightened to the specified torque. Failure to do so can result in SERIOUS INJURY OR DEATH.

18 mm cone wrench

18 mm | 4.5 N·m (40 in-lb)

16 Press the valve spool down.

NOTICE

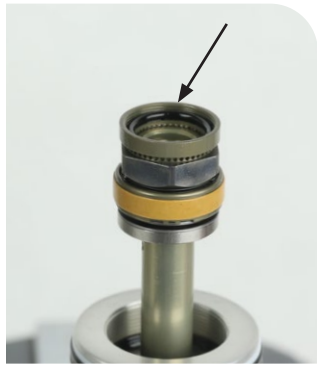
If the valve spool is not pressed down, the shock cannot be bled.

17 If the piston cap was separated from the valve cup during removal, install a new o-ring in the valve cup. Thread the piston cap onto the valve cup, and tighten the assembly.

If the piston cap **did not** separate from the valve cup during dissassembly, install the valve cup and piston cap assembly onto the piston assembly, and tighten. Discard the o-ring from the service kit.

⚠WARNING - CRASH HAZARD

Parts must be tightened to the specified torque. Failure to do so can result in SERIOUS INJURY OR DEATH.



18 mm	2.8 N·m (25 in-lb)	5 mm

1 Wrap a shop towel around the end of the damper body. Thread the SIDLuxe air valve adapter tool into a shock pump. Thread the pump and adapter into the air fill port.

Pump air into the damper body to force the IFP out of the damper body and into the shop towel.

RockShox SIDLuxe Air Valve Adapter Tool and shock pump

2 Clean the inside and outside of the damper body.

Remove a glove and use your finger to inspect the inside and outside of the damper body for scratches, dents, or other surface deformations. If any deformations are found, the damper body will need to be replaced.

3 Remove and replace the IFP o-ring.

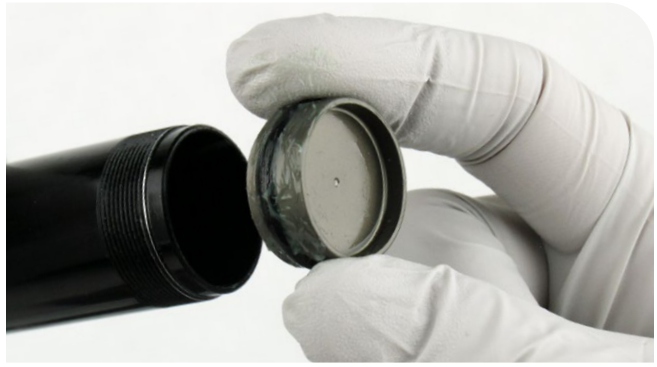
Apply grease and install the IFP o-ring.

4 Install the IFP into the damper body with the stepped side visible. Use the SIDLuxe IFP Height Tool to push the IFP to the depth specified in the table below.

Make sure the damper Schrader valve core is removed from the damper body. This will help with setting the IFP height.

Measure the IFP depth from the lowest part of the IFP.

Shock Stroke	IFP Insertion Depth
27.5-35 mm	46 mm
37.5-45 mm	55 mm
47.5-50 mm	61 mm

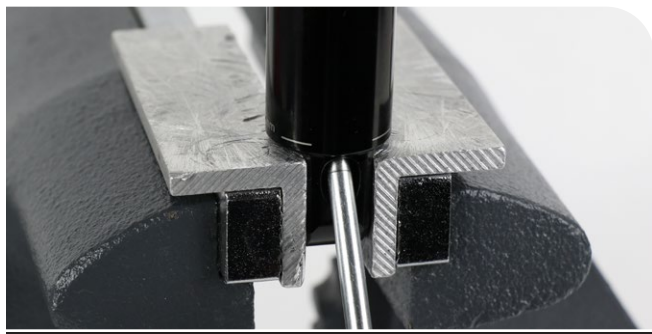


Shock stroke

SIDLuxe IFP Height Tool

SIDLuxe IFP Height Tool

5 Install the Schrader valve core into the damper air/nitrogen fill port.



Schrader valve tool

1 Slide the seal head/air piston until it stops at the end of the damper shaft.

2 Clamp the damper body into the SIDLuxe Body Vise Block.

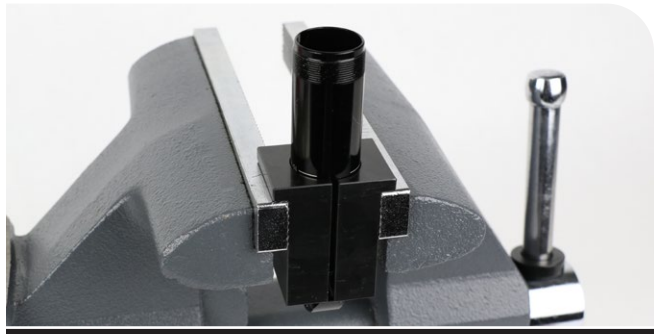
Tighten the vise firmly enough so that the IFP cannot move in the damper body. Check this by using your finger to push on the IFP.

If the IFP does move, use a shock pump to push out the IFP, and then reset it to the depth specified in the table.

Do not overtighten the vise so that the damper body gets crushed.

NOTICE

The SIDLuxe Body Vise Block holds the IFP in place. Failure to use the vise block when clamping the damper body into the vise may result in improper IFP height. Improper IFP height can cause the damper to fail.

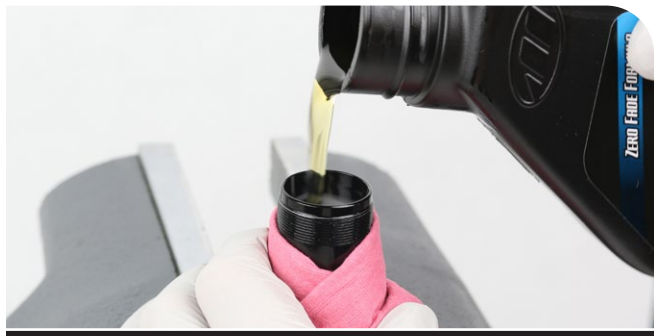


SIDLuxe Body Vise Block

3 Wrap a clean shop towel around the damper body.

Pour new Maxima PLUSH 7wt Suspension Oil into the damper body until it is level with the top.

Maxima PLUSH 7wt Suspension Oil is backwards compatible with RockShox 7wt suspension oil.



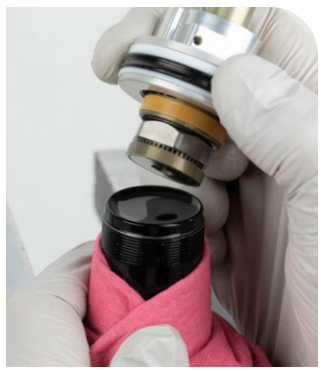
Maxima PLUSH 7wt Suspension Oil

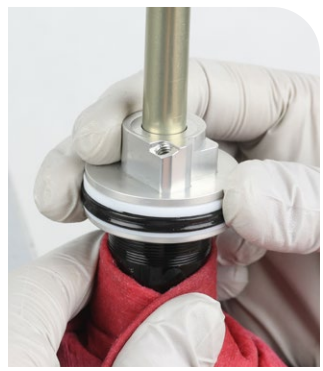
4 **Make sure that the compression ball is removed from the seal head/air piston (page 28).**

With the seal head/air piston positioned at the end of the damper shaft, install the seal head/air piston onto the damper body.

Do not press down on the shaft eyelet or damper shaft while installing the seal head; this can move the piston/shaft assembly, causing too much fluid to displace out of the damper body.

Fluid will be displaced out of the bleed port.





5 Tighten the seal head/air piston.

Install the crowfoot onto the torque wrench at a 90° angle to the handle to ensure an accurate torque reading.

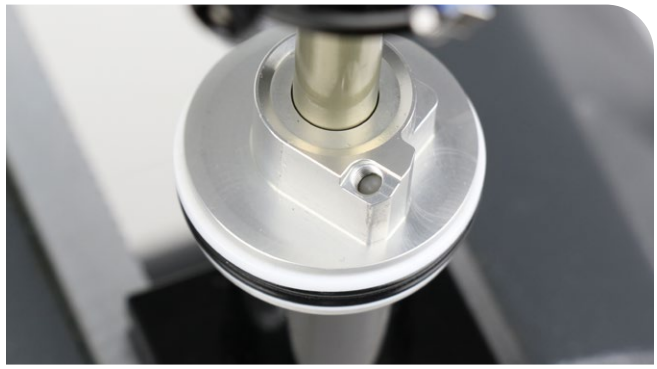
⚠WARNING - CRASH HAZARD

Parts must be tightened to the specified torque. Failure to do so can result in SERIOUS INJURY OR DEATH.

19 mm	28 N•m (248 in-lb)

6 Allow air bubbles to escape from the bleed port in the seal head.

Insert the new compression ball into the bleed port.



7 Thread the bleed screw into the bleed port until you feel it touch the compression ball, then tighten the bleed screw an additional ½ turn.

NOTICE

Overtightening the bleed screw can damage the compression ball.

Remove the damper body from the SIDLuxe Body Vise Block.

2 mm

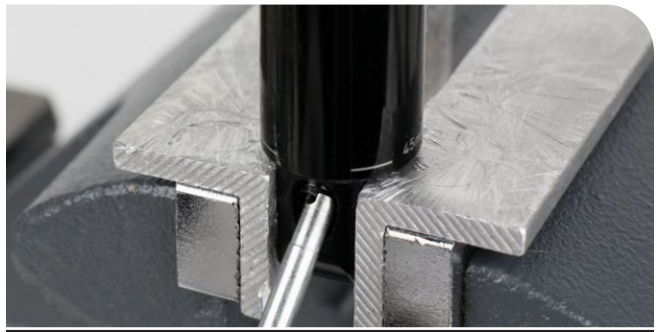
8 Pressurize the damper body.

If you have the proper fill equipment, you may substitute air with nitrogen.

Once you have pressurized the shock, remove the air valve adapter tool from the air fill port before removing it from the shock pump. Separating the pump from the adapter first will cause all of the air to escape from the shock.

Shock pump	500 psi	RockShox SIDLuxe Air Valve Adapter Tool

9 Install the damper air/nitrogen fill port cap.



Schrader valve tool

10 Remove the shock from the vise.

Spray the damper assembly with isopropyl alcohol and clean it with a shop towel.

1 Clamp the shaft eyelet into a vise, with the shock positioned horizontally.

Grease the seal head/air piston seals.

2 Inject 0.5 mL of Maxima Extra 15w50 Suspension Oil or Maxima PLUSH Dynamic Suspension Lube Light, approximately 1/4 the pillow pack, into the air can before installing the air can onto the damper. Firmly press the air can down until the sealhead/air piston is inserted into the air can.

15w50 or PLUSH Light 0.5 mL

3 Inject another 0.5 mL of Maxima Extra 15w50 Suspension Oil or Maxima PLUSH Dynamic Suspension Lube Light, or another 1/4 of the pillow pack, into the air can.

NOTICE

Do not use the entire pillow pack. If the air can is lubricated properly, the pillow pack should be half full.

15w50 or PLUSH Light 0.5 mL

4 Press the air can onto the damper then thread it onto the shaft eyelet until it is hand tight.

Clean the outside of the air can.

5 Remove the shock from the vise. Turn it over and clamp the damper body eyelet in the vise.

Stabilize the air can with a strap wrench to prevent it from rotating. Tighten the air can.

Eyelet Type	Width (mm)
Standard	13
Trunnion	54

⚠WARNING - CRASH HAZARD

Parts must be tightened to the specified torque. Failure to do so can result in SERIOUS INJURY OR DEATH.

see table	10 N•m (90 in-lb)

6 Remove the shock from the vise. Spray isopropyl alcohol on the shock and clean it with a shop towel.

7 Install the sag indicator o-ring.

Eyelet Bushing Installation

1 Apply a light layer of grease to the outside of the new bushing.

2 Position the shaft eyelet and eyelet bushing between the soft jaws of a vise. Slowly turn the vise handle to begin pressing the eyelet bushing into the shaft eyelet.

Check the alignment of the bushing as it enters the eyelet. If the bushing starts to enter the eyelet at an angle, remove the bushing from the eyelet, regrease the bushing, and repeat this step until the bushing enters the eyelet straight.

Continue to press the eyelet bushing until it is seated in the shaft eyelet.

Remove the shock from the vise and repeat the installation process for the other bushing and eyelet.

Mounting Hardware Installation

Some mounting hardware is easily installed using only your fingers. Press the bushing pin into the shock eyelet bushing until the pin protrudes from both sides of the eyelet an equal amount. Next, press an end spacer, large diameter side first, onto each end of the bushing pin. If this works, you have completed mounting hardware and bushing service.

If you are unable to install your mounting hardware using your fingers, use the RockShox rear shock bushing removal/installation tool.

1 Thread the small end of the push pin onto the threaded rod until the push pin is flush or slightly protrudes from the hex-shaped end of the push pin.

2 Insert the threaded rod through the bushing pin then through the shaft eyelet so that the bushing pin is positioned between the push pin and the eyelet.

3 Thread the large, open end of the catcher onto the rod until it rests on the eyelet.

4 Clamp the catcher in a vise or hold it secure with a 13 mm wrench.

Use a second 13 mm wrench to thread the push pin along the rod until it pushes the bushing pin into the shock eyelet bushing.

Continue to thread the push pin until the bushing pin protrudes from both sides of the eyelet an equal amount.

You may need to unthread the catcher slightly to check the bushing pin spacing.

5 Press an end spacer, large diameter side first, onto each end of the bushing pin.

6 Reinstall the shock to your bicycle frame according to the bicycle manufacturer's instructions.

7 Use a shock pump to pressurize the shock to the recorded air pressure plus 20%. After adding air to the shock, the pressure will need to be equalized between the shock chambers.

Record the air pressure value on the pump, then unthread it from the shock. Slowly but firmly press or sit on the saddle to compress the shock until there is a hissing sound. This sound indicates air transfer between chambers.

Reinstall the pump and pressurize the shock to the desired air pressure. Record the air pressure, then unthread it from the shock. Repeat this process until you reach the desired amount of sag, then install the valve cap.

NOTICE

When pressurizing the shock, do not exceed maximum pressure rating.

The pump must be removed from the shock prior to checking sag to avoid damage to the pump.

This concludes the service for the RockShox SIDLuxe rear shock.

Remote Cable and Housing Installation - Remote

This installation procedure shows the 90° remote shock. For different remote cable routing options, consult the *Remotes (OneLoc and TwistLoc) User Manual* at www.sram.com/service.

Parts, Tools, and Supplies

Parts

- Shift cable and housing

Safety and Protection Supplies

- Safety glasses
- Nitrile gloves

Common Tools

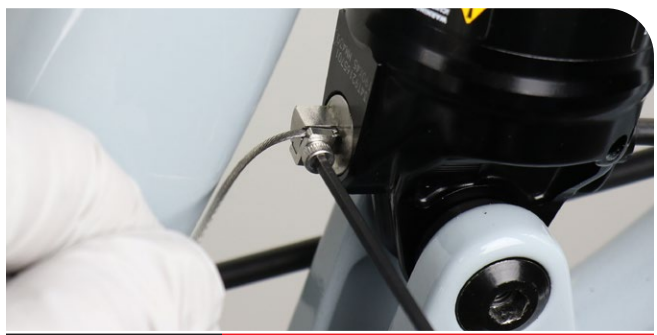
- 2 mm hex wrench
- 2 mm hex bit socket
- Torque wrench
- Cable and housing cutters

Remote Cable and Housing Installation

1 After the housing has been routed and installed on the bicycle, thread the cable through the housing and remote cable stop, then insert the housing into the remote cable stop

Do not use a housing ferrule; the housing can be installed directly into the remote cable stop.

2 Pull the cable taut, then tighten the screw.



2 mm	0.9 N·m (8 in-lb)

3 Cut the cable to length, then install the cable end cap.

Cable and housing cutters

ASIAN HEADQUARTERS
SRAM Taiwan
No. 1598-8 Chung Shan Road
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