ROCKSHOX

reverb

2020-2022
Reverb Stealth C1

SERVICE MANUAL

SRAM LLC WARRANTY

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

This warranty applies to SRAM products made under the SRAM, RockShox, Truvativ, Zipp, Quarq, Avid and TIME brand names.

EXTENT OF LIMITED WARRANTY

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

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

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

GENERAL PROVISIONS

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

NO OTHER WARRANTIES

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

LIMITATIONS OF LIABILITY

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

LIMITATIONS OF WARRANTY

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

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

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

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

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

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

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

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

WEAR AND TEAR

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

WEAR AND TEAR PARTS INCLUDE:

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

ZIPP IMPACT REPLACEMENT POLICY

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

SAFETY FIRST!

We care about YOU. Please, always wear your safety glasses and protective gloves when servicing RockShox products.
Protect yourself! Wear your safety gear!

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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 https://www.sram.com/en/company/about/environmental-policy-and-recycling.

Part Preparation

Remove the component from the bicycle before 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.

To maintain proper lubrication and function, clean Reverb **internal** parts with **only** a clean, lint-free shop towel. Clean the sealing surface on the part and inspect it for scratches.

NOTICE

Reverb internal part and sealing surfaces must remain lubricated for proper function. Do not use liquid cleaners or isopropyl alcohol to remove oil or grease from internal parts or seals.

Clean Reverb **external** parts with soap and water, and a clean, lint-free shop towel.

For hard to reach places (e.g. lower post tube), wrap a clean lint-free shop towel around a non-metallic dowel to clean the inside.

Use your fingers to pinch and lift o-rings from the o-ring gland, then remove the o-ring with a non-metallic pick as needed. Replace the o-ring or seal with a new one from the service kit.

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.

Apply only RockShox Dynamic Seal Grease to the new seal or o-ring.

Use Reverb Vise Blocks when clamping Reverb parts 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)

Product Identification - Reverb Stealth C1

Production versions of Reverb Stealth can be identified visually. Your Reverb Stealth C1 can be identified by the saddle clamps, graphics, seatpost collar, and poppet cover.

C1 - Upper Post - Saddle Clamps

C1 - Collar

C1 - Graphics

C1 - Poppet Valve Cover

C1 - Poppet Valve Cover (Connectamajig)

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 and debris from seatpost	Extends wiper seal lifespan
		Minimizes damage to upper post
		Minimizes lower post contamination
	Inspect the upper post for scratches	Minimizes lower post contamination
	Check remote hydraulic pressure	Ensures proper remote actuation function
Every 50 Hours	Remove the lower post, clean, inspect and replace brass keys as needed, and apply new grease	Reduces friction
		Extends wiper seal, top cap bushing, and brass key lifespan
	Perform remote lever bleed	Ensures proper remote actuation function
Every 200 Hours	Replace all parts included in the *Reverb Stealth C1 Service Kit - 200 hours*	Reduces friction
		Extends seatpost lifespan
	Perform full hydraulic remote system bleed	Ensures proper remote actuation function
Every 600 Hours	Replace all parts included in the *Reverb Stealth C1 Service Kit - 600 hours*	Restores hydraulic system and function
	Perform full hydraulic remote system bleed	Ensures proper remote actuation function

Service History

Record each date of service to track service intervals.

	Service Hours Interval											
	50	100	150	200	250	300	350	400	450	500	550	600
Date of Service												

Brass Key Size

Size = Record the number of etched lines on each key. Replace with the same size keys.	

Torque Values

Part	Tool	Torque
Internal		
Internal seal head to upper post	23 mm crowfoot	28 N•m (248 in-lb)
Main piston to inner shaft	9 mm crowfoot	4 N•m (35 in-lb)
Poppet valve cover to poppet valve housing	15 mm crowfoot and 10 mm open end wrench	6.5 N•m (56 in-lb)
Lock ring to poppet valve cover	24 mm crowfoot and 15 mm open end wrench	5 N•m (60 in-lb)
External		
Collar to lower post	34 mm crowfoot	28 N•m (250 in-lb)
Post barb strain relief nut to poppet cover	13 mm crowfoot and 15 mm open end wrench	8.5 N•m (75 in-lb)
Connectamajig coupler to poppet cover	8 mm crowfoot and 15 mm open end wrench	4 N•m (35 in-lb)
Connectamajig coupler collar to hose coupler	9 mm crowfoot and 6 mm open end wrench	2 N•m (18 in-lb)
Saddle clamp bolts	T25 TORX bit socket	6 N•m (53 in-lb)
Bicycle frame seatpost clamp	Various	Do not exceed 6.7 N•m (59 in-lb)
Remote and Bleed		
Reverb 1x remote barb strain relief nut	13 mm crowfoot	8.5 N•m (75 in-lb)
Remote lever hose barb (standard)	6 mm crowfoot	3.2 N•m (28 in-lb)
Remote lever clamp (MMX)	T25 TORX bit socket	5.5 N•m (49 in-lb)
Remote lever clamp (discrete)	4 mm bit socket	2 N•m (18 in-lb)
Remote bleed screw (standard)	T10 TORX bit socket	2 N•m (18 in-lb)
Post bleed screw	T10 TORX bit socket	2 N•m (18 in-lb)

Parts, Tools, and Supplies

Parts

- Reverb Stealth C1 Service Kit - 200 hours
- Reverb Stealth C1 Service Kit - 600 hours
- Reverb brass keys, quantity 3 (use correct size)
- Hose barbs (optional)

Safety and Protection Supplies

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

Lubricants and Fluids

- Friction paste
- Maxima Racing Oils Serene Hydraulic Seat Post Fluid
- RockShox Dynamic Seal Grease

RockShox Tools

- Reverb IFP Height Tool - 210 mm
- RockShox shock pump
- RockShox Vent Valve Tool
- Reverb Vise Blocks

Bicycle Tools

- Bicycle work stand

Tools

- Adjustable open end wrench (≤ 34 mm) (optional)
- Bench vise
- Cone wrench: 24 mm
- Crowfoot sockets: 6, 9, 10, 13, 15, 23, 24, 34 mm
- Dowel - non-metallic
- Hex bit socket: 4 mm
- Hex wrenches: 1.5, 4 mm
- Needle nose pliers
- Open end wrenches: 6, 9, 10, 13, 15, 23, 24, 34 mm
- Non-metallic pick
- Plastic cable ties (quantity 7-10, 15-20 cm length)
- Retaining ring pliers
- Screwdriver with plastic handle
- Socket: 9 mm
- Socket wrench
- Torque wrench (see Torque Values chart for range)
- TORX bit sockets: T10, T25
- TORX wrenches: T10, T25

SAFETY INSTRUCTIONS

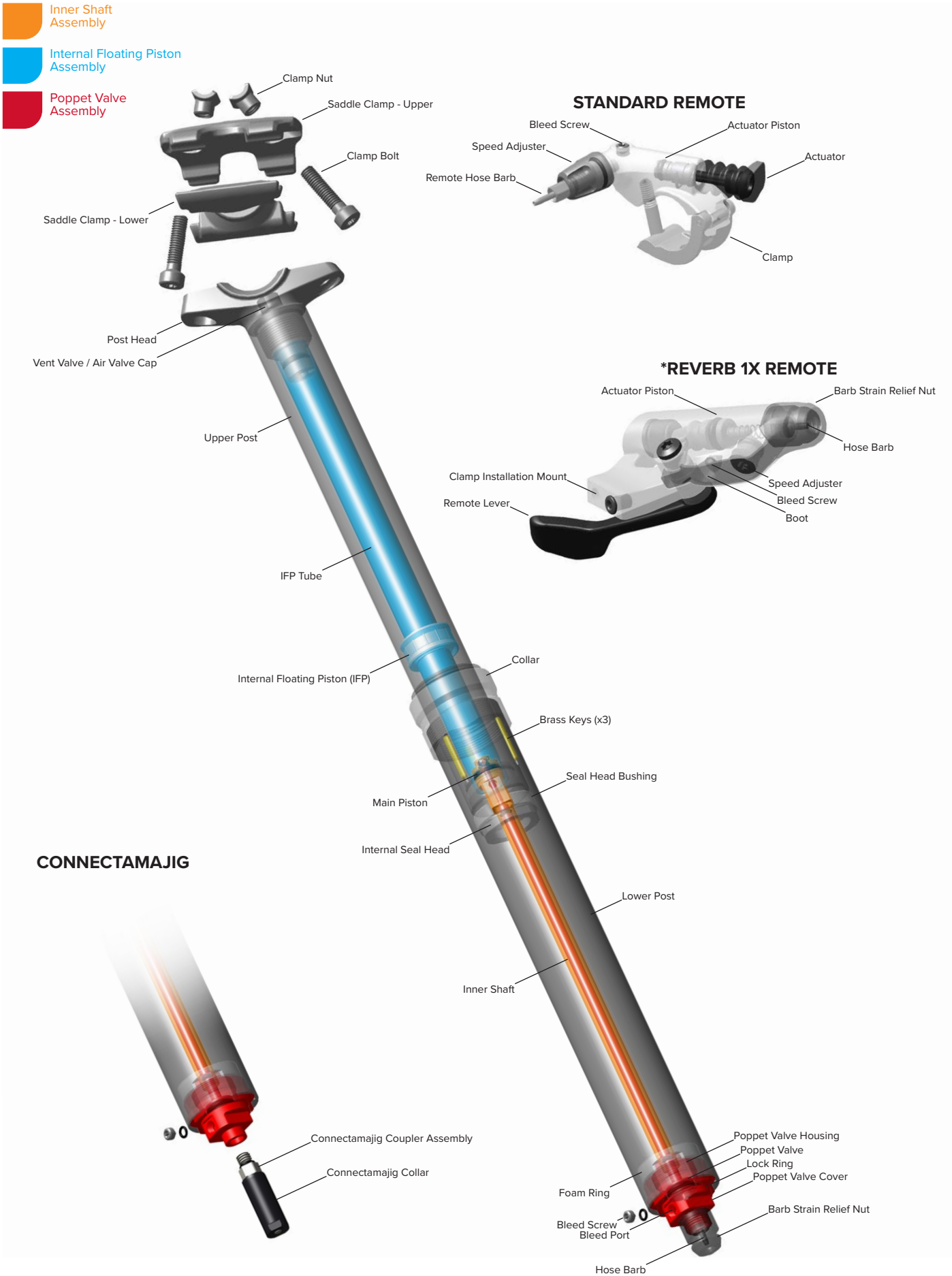
Always wear safety glasses and nitrile gloves when working with grease and seatpost hydraulic fluid.

Place an oil pan under the RockShox product during service.

⚠WARNING

Do not allow seatpost hydraulic fluid to come into contact with disc brake levers, calipers, pads, rotors, or braking surfaces. If hydraulic fluid contacts brake pads, the brake pads must be replaced. Use isopropyl alcohol to remove hydraulic fluid from any brake or braking surface. Failure to remove hydraulic fluid from brakes and braking surfaces can damage components and reduce brake performance, and may result in serious injury and/or death to the rider. Remove or cover brake components before performing seatpost service, hose replacement, or hydraulic remote bleed procedures.

Exploded View - Reverb Stealth C1



*Compatible with Reverb Stealth and Reverb

Seatpost Troubleshooting

The Vent Valve is located on the bottom of the seatpost and can be used after extended use if the seatpost develops a 'squish' suspension feel in the fully extended position when the rider is seated. If this occurs after extended use, it is an indication that air and oil have mixed and the Vent Valve should be used. Activating the Vent Valve will channel the air back into the air chamber and out of the oil.

NOTICE

The Vent Valve should be used only if the seatpost compresses more than 5 mm during normal use in the fully extended position while seated. Do not use the Vent Valve if the seatpost is compressed. The Vent Valve is not to be used regularly and is only to be used if the seatpost compresses abnormally while seated.

Vent Valve Procedure

1. Secure the bicycle in an upright position on a flat level surface.

2. Press the remote actuator until the seatpost is fully extended, then release the actuator.

3. Remove the saddle from the seatpost.

   Set the saddle clamps, bolts, and nuts aside.

4 Depress the Vent Valve with the Vent Valve tool. Hold the top of the seatpost head with your other hand. With the Vent Valve depressed, push the lower post down, and slowly compress the seatpost.


Vent Valve Tool

When you feel a hard stop point, hold the seatpost in place for **2 seconds**, then release the Vent Valve and stop pushing down on the seatpost.

NOTICE

For proper Vent Valve function, the bicycle must be on a flat level surface. The seatpost must be at a natural angle installed in the bicycle, and not perpendicular to the ground.

To avoid hydraulic bypass, do not compress the seatpost beyond the hard stop point. At the hard stop point, do not hold the Vent Valve down for more than 2 seconds.

5 Press the remote actuator and release when the seatpost is fully extended.

6 **Test**: Push down on the seatpost head to compress the seatpost. If the Vent Valve procedure was successful, the seatpost will not compress.

If the seatpost still compresses, this may be an indication the seatpost is in need of the 600 Hour service. Proceed to Seatpost Service.

7 If successful, install the saddle onto the seatpost.

Consult the *Reverb, Reverb Stealth, 1x Remote User Manual* at www.sram.com/service for saddle installation procedures.

Seatpost Removal

1 Secure the bicycle in an upright position.

NOTICE

The Reverb Stealth seatpost will be removed from the bicycle. Do not clamp the seatpost in a bicycle work stand.

2 Remove or cover the rear brake caliper to prevent contact with hydraulic fluid.

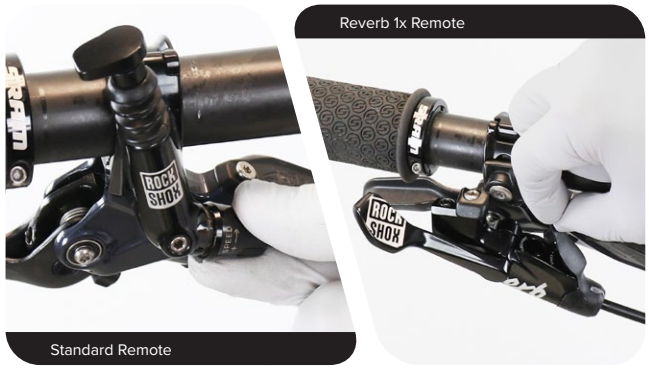
3 Press the remote actuator until the seatpost is fully extended, then release the actuator.

4 Set the speed adjuster to the full slow position.

Rotating the speed adjuster to the slowest setting is critical for a successful bleed. Failure to do so may result in insufficient fluid volume inside the hydraulic remote system.

Standard Remote: Turn the speed adjuster knob in the opposite direction of the arrow (counter-clockwise) until it stops.

Reverb 1x Remote: Remove the remote boot and rotate it out of the way. Turn the speed adjuster bolt (counter-clockwise) until it stops.



Reverb 1x Remote

Standard Remote

T25 Reverb 1x Remote

5 Remove the remote lever assembly from the handlebar.


T25 Reverb 1x Remote

T25 Standard Remote

6 Remove the saddle from the seatpost.

Set the saddle clamps, bolts, and nuts aside.

T25

7 Loosen the seatpost clamp.

8 Remove the seatpost from the bicycle seat tube while simultaneously pushing the hydraulic hose into the hose port in the bicycle frame.

The hose port location will vary depending on the bicycle frame. Consult with your frame manufacturer for additional information.

NOTICE

Do not pull the seatpost out of the frame if there is tension at the hose. This can cause damage to the hydraulic hose and hose barb.

9 Clamp the seatpost into a bicycle work stand.

Place a shop towel under the seatpost and hose to absorb any hydraulic fluid that may drip when the hose is disconnected.

Hydraulic Hose Disconnect

The hydraulic hose must be disconnected from the seatpost for all service procedures.

The hose does not need to be disconnected from the remote lever for seatpost service.

To avoid contact with hydraulic fluid, remove or cover the rear brake caliper before disconnecting the hydraulic hose.

⚠WARNING

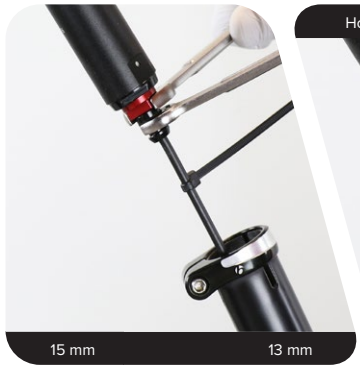
Do not allow seatpost hydraulic fluid to come into contact with any brake components. Contaminated brake components can compromise brake performance, may cause brake failure, and can lead to serious injury and/or death.

1 Disconnect the hydraulic hose from the seatpost.

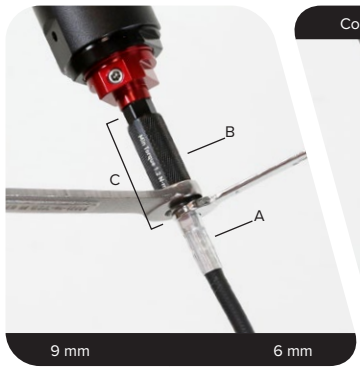
Hose Barb with Barb Strain Relief Nut: Secure a plastic cable tie on the hose. The cable tie will prevent the nut from dropping inside the frame seat tube.

Unthread and remove the strain relief nut and hose assembly from the poppet cover.

Wipe away any excess fluid from the hose barb.



Connectamajig: Unthread and remove the hose coupler (A) from the Connectamajig coupler collar (B). Service can be performed with the Connectamajig coupler assembly (C) installed.



Before disassembly, confirm the seatpost is free of any dirt or contaminants.

Service procedures are the same for standard and Connectamajig seatpost hose connection types. The standard hose barb is pictured.

NOTICE

Use Reverb Vise Blocks to prevent damage to the seatpost or any seatpost component when clamping it into a vise. Clamp each component only tight enough to prevent it from spinning in the vise blocks. To prevent the part from slipping, clean the vise blocks with a clean shop towel before use.

1 Clamp the lower post into a bench vise with Reverb Vise Blocks.

Reverb Vise Blocks - 25-35 mm

2 Unthread the lock ring from the lower post.

24 mm or Adjustable wrench

3 Push the upper post up.

4 Remove the lock ring from the poppet cover.

5 Unthread the seatpost collar.

Slide the collar down toward the post head.

6 Remove the upper post assembly and set it aside on a clean shop towel.

Remove the lower post from the vise.

7 Clean the inside and outside of the lower post, then set it aside.


Dowel

8 Clamp the upper post head into the vise with Reverb Vise Blocks.


Reverb Vise Blocks - FLAT

Remove the three brass keys from the upper post.

Record the number of lines, which indicate key size, marked on the brass keys for future reference. If worn, the brass keys must be replaced with new brass keys of the same size.

Clean the upper post and keys with a clean shop towel.


Example: 3 lines = size 3 key

To continue with the **50 Hour Service** proceed to Brass Keys Installation.

To continue with the **200 Hour Service** proceed to Top Cap and Seal Head Bushing Replacement.

To continue with the **600 Hour Service** proceed to Inner Shaft Disassembly.

The following steps are to be completed during the 200 hour service interval and include replacing parts included in the **Reverb Stealth C1 Service Kit - 200 hours**. These steps do not require complete disassembly of the upper post assembly and are not included in the 600 hour service.

Depressurization of the seatpost is not required prior to beginning the 200 hour service procedure.

1 Remove the foam ring from the inner shaft assembly and discard the foam ring.

2 Wrap a clean shop towel around the inner shaft at the seal head. The towel will protect the inner shaft.

Spread the seal head bushing and remove it from the seal head. Remove the bushing and discard it.

Remove the towel.

NOTICE

The seal head bushing may have sharp edges. Do not scratch the inner shaft with the bushing. Scratches will cause leaks.

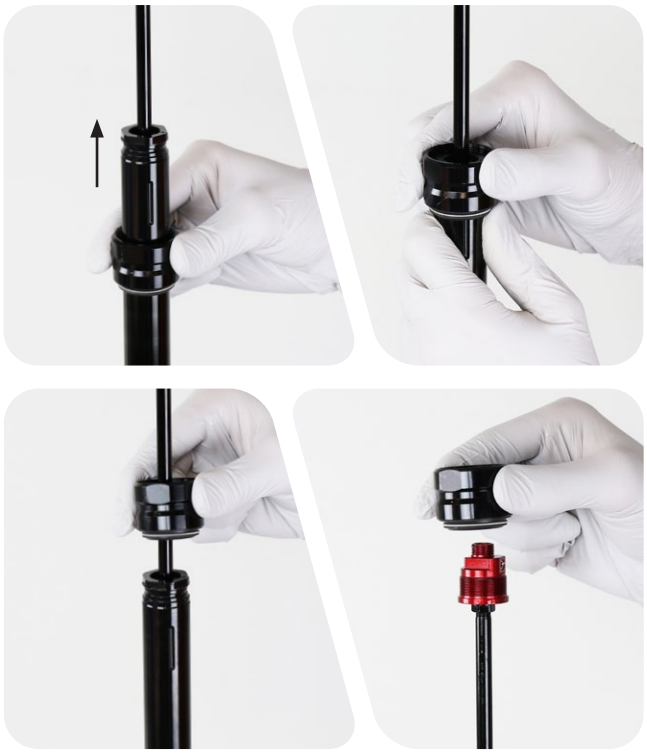
Retaining ring pliers

3 Remove the seal head o-ring. Pinch the o-ring, lift it from the o-ring groove, and remove it. Discard the o-ring.

Non-metallic pick

4 Remove the collar assembly from the upper post.

Clean the upper post, inner shaft assembly, and the collar assembly.



5 Apply a liberal amount of RockShox Dynamic Seal Grease around the inside of the collar assembly and onto the seals.

Carefully, install the collar assembly, dust wiper seal end first, over the seal head and onto the upper post assembly. Slide the collar down until it is positioned below the upper post key slots.

NOTICE

Ensure the dust wiper seal slides over the seal head without folding the outer lip of the seal.

Use care when installing the collar to avoid damage to the wiper seal or bushing which can be caused by forceful contact with the seal head edges.

6 Install a new o-ring onto the seal head.

7 Wrap a clean shop towel around the inner shaft at the poppet housing.

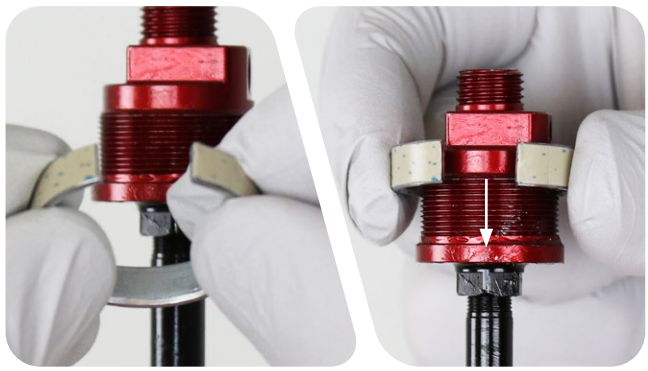
Carefully spread the bushing ends enough to fit over the poppet housing.

Position the new bushing over the poppet housing and around the towel. Slide the towel and bushing down to the seal head. The towel will protect the inner shaft.

Remove the towel.

NOTICE

The seal head bushing may have sharp edges. Do not scratch the inner shaft with the bushing. Scratches may cause leaks.



Pinch the bushing to secure it around the seal head and o-ring.

8 Install a new foam ring.

NOTICE

Do not damage the foam ring during installation.

To continue with the **200 Hour Service** proceed to Brass Key Installation.

⚠WARNING - EYE HAZARD

The seatpost must be depressurized before disassembly. During disassembly, there may be remaining air pressure inside the upper post assembly. Keep your eyes and face away from the poppet valve housing during disassembly. Wear safety glasses.

1 Remove the air cap.

2 Depress the Schrader valve and release all air pressure from the air chamber.

⚠WARNING - EYE HAZARD

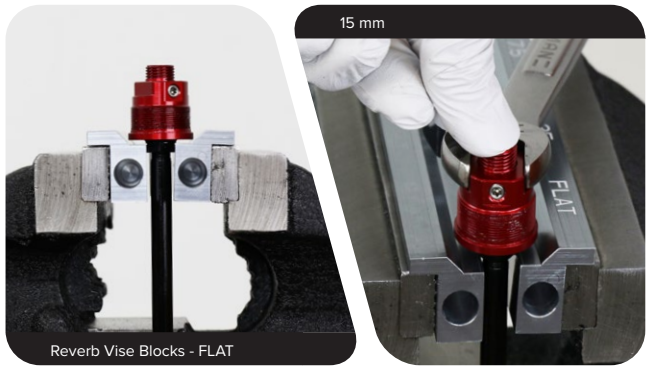
Verify all pressure is removed from the seatpost before proceeding. Failure to do so can cause the inner seal head and inner shaft to separate from the upper post assembly at high velocity during disassembly. Wear safety glasses.

3 Clamp the poppet housing wrench flats in the Reverb Vise Blocks.

Unthread the poppet valve cover from the poppet valve housing two full turns. Do not remove the poppet cover.

NOTICE

To avoid damage to the inner shaft, do not clamp the inner shaft into the flat section of the Reverb Vise Blocks.



4 Wrap a shop towel over the poppet valve cover. Unthread the poppet valve cover slowly by hand. Remove the poppet valve cover from the poppet valve housing slowly and cover the poppet valve housing opening with your thumb to prevent the poppet valve from dislodging or ejecting from the inner shaft.

⚠WARNING - EYE HAZARD

In the event there is any remaining air pressure inside the upper post assembly, covering the poppet valve housing with your thumb will prevent the poppet from disloding during removal. Covering the housing with a shop towel will absorb hydraulic fluid if discharged during removal.

5 With a shop towel around the poppet valve housing, and your thumb still on the poppet valve, use needle nose pliers to remove the poppet valve from the housing and inner shaft.

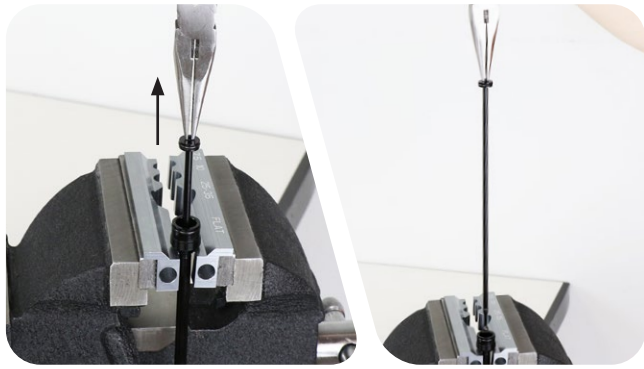
⚠WARNING - EYE HAZARD

In the event there is any remaining air pressure inside the upper post assembly, covering the poppet valve housing with a shop towel will absorb hydraulic fluid if discharged during removal.

NOTICE

Do not bend the poppet valve during removal. If the poppet valve is damaged it cannot be used.


Needle nose pliers



6 Remove the upper post assembly from the vise.

Clamp the seapost head into the vise with Reverb Vise Blocks.


Reverb Vise Blocks - FLAT

7 Unthread the internal seal head three full turns. Do not remove the seal head.


23 mm or Adjustable wrench

8 Wrap a shop towel around and over the internal seal head.

Slowly unthread the seal head by hand while holding the shop towel over the seal head.

A small amount of air pressure may be released when the seal head is completely unthreaded. Do not remove the shop towel from the seal head until the seal head is completely unthreaded.

Wrap the shop towel around the upper post to absorb hydraulic fluid and carefully remove the seal head and inner shaft assembly from the upper post.

Set the assembly aside on a clean shop towel.

⚠WARNING - EYE HAZARD

In the event there is any remaining air pressure inside the upper post assembly, the shop towel will absorb any fluid that may be released under pressure. Do not remove the shop towel until the seal head is completely removed from the upper post.

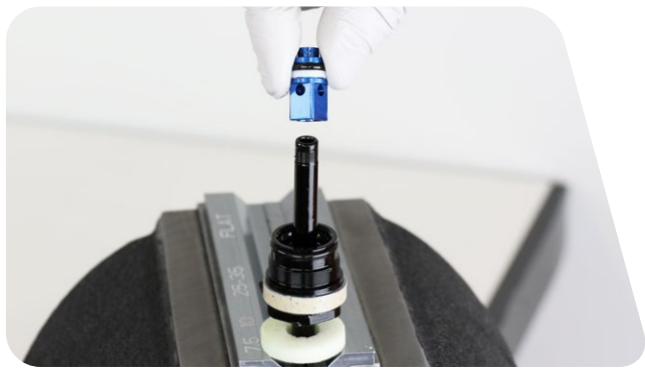
9 Remove the upper post from the vise and pour the hydraulic fluid into an oil pan or container.

Set the upper post aside on a clean shop towel.

10 Wipe the inner shaft and Reverb Vise Blocks with a clean shop towel. The clamping surfaces must be clean.

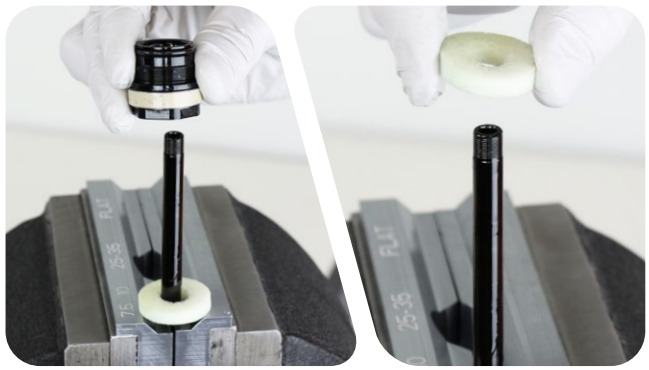
Clamp the inner shaft into the Reverb Vise Blocks with the main piston up.

Remove the main piston from the inner shaft.



11 Remove the internal seal head assembly from the inner shaft and discard the seal head.

Remove the foam ring and discard it.



12 Remove the inner shaft from the vise and set it aside on a clean shop towel.

1 Clamp the seapost head into the vise with Reverb Vise Blocks.

Remove the collar from the upper post and discard it.


Reverb Vise Blocks - FLAT

2 Insert a non-metallic pick into one of the cross holes in the IFP tube. Carefully pull the IFP tube out of the upper post and remove it from the post. Use your hand to guide the IFP tube straight out of the upper post using care not to scratch the inside of the upper post with the hex wrench.

Wipe the outer surface of the IFP tube and set it aside on a clean shop towel.

NOTICE

Do not scratch the inner surface of the upper post or the outer surface of the IFP tube. Surface scratches can cause leaks and reduce performance.

If the IFP tube is scratched, it must be replaced.


Non-metallic pick

3 Remove the internal floating piston (IFP) from the upper post. Insert seven to nine plastic cable ties (cable tie size may vary), one at a time, into the upper post and through the center of the IFP.

Pull the cable ties out of the upper post and remove the IFP.

Optional: Use the hooked end of the non-metallic pick to remove the IFP.

Discard the IFP.

1 Apply a liberal amount of RockShox Dynamic Seal Grease around the inside of a new collar and onto the seals.

2 Wipe the outside of the upper post with a clean shop towel.

Install the new collar, dust wiper seal end first, onto the upper post. Slide the collar down until it is positioned below the brass key slots.

NOTICE

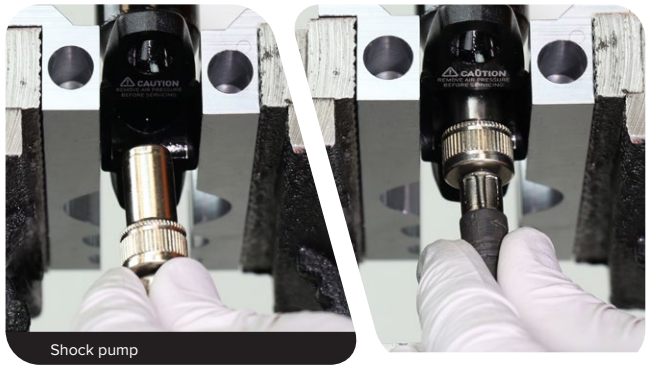
Ensure the dust wiper seal slides over the upper post without folding the outer lip of the seal.

1 Pull the Vent Valve out to full extension to close the valve. Thread a shock pump onto the air valve and pull the valve out until it stops.

Remove the shock pump.

NOTICE

To ensure proper function, the Vent Valve must be closed before IFP installation.



Shock pump

2 Fully coat the inside and outside surfaces of the IFP tube with seatpost hydraulic fluid.

Install the IFP tube with the cross holes facing up, into the upper post. Use your finger to rotate the IFP tube in a circular and side to side motion until the IFP tube seats itself onto the seal inside the bottom of the upper post.

Push down firmly on the IFP tube until it snaps securely into the upper post. When the IFP tube snaps into place, a click will be heard. Ensure the IFP tube is secured and centered.

NOTICE

Do not scratch the inside of the upper post with the IFP tube. Do not scratch the outside of the IFP tube on the edge of the upper post. Scratches can cause leaks.

The IFP tube should be below the top of the upper post when it is installed correctly.

3 Apply a very liberal amount of RockShox Dynamic Seal Grease to the outer and inner surfaces of the new gray C1 IFP, then submerge the IFP in seatpost hydraulic fluid.

NOTICE

Install only the new gray C1 IFP.

The outer and inner surfaces must be coated with grease and seatpost hydraulic fluid to prevent stiction. Stiction will negatively affect seatpost function.

RockShox Dynamic Seal Grease


Maxima Serene Hydraulic Seatpost Fluid

4 Install the greased IFP into the upper post and onto the IFP tube. Gently and evenly push the IFP down until it is level with the top of the IFP tube.

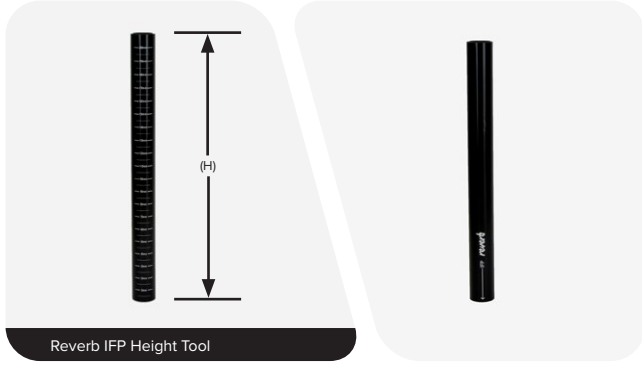
The IFP is symmetrical. Orientation of the IFP is not critical to installation.

5 **Internal floating piston (IFP) height**:

Identify the IFP height (H) measurement on the IFP tool.

Reverb Stealth C1 Travel (mm)	Seatpost Length (mm)	IFP Height (H) (mm)
100	296	55
125	346	
150	409	
175	462	
200	514.5	

IFP height is critical to proper function.



Reverb IFP Height Tool

6 Set the internal floating piston (IFP) height inside the upper post.

Position the Reverb IFP height tool flat on the IFP. Gently tap the top of the tool with a plastic screwdriver handle to push the IFP down into the upper post.


Plastic screwdriver handle

Reverb IFP Height Tool

Stop when the correct measurement on the IFP tool is level with the top of the upper post.

Remove the IFP tool from the upper post.

Remove the upper post assembly from the vise and set it aside on a clean shop towel.

NOTICE

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

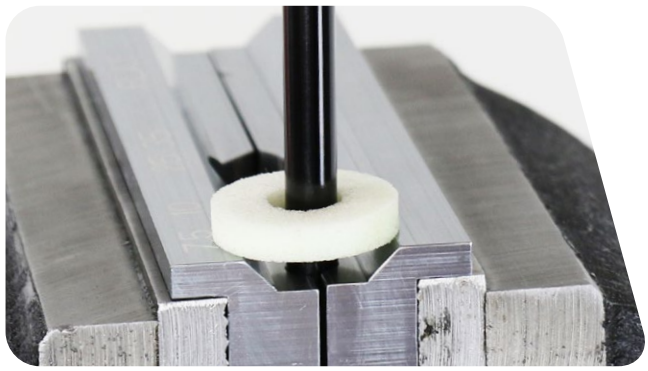
When replacing o-rings, use your fingers or a non-metallic pick to remove the o-ring. Clean each part with a clean lint-free shop towel.

Apply RockShox Dynamic Seal Grease to Reverb seals and o-rings.

1. Clean the inner shaft and Reverb Vise Blocks with a clean shop towel. The clamping surfaces must be clean.

   Clamp the inner shaft into the Reverb Vise Blocks, poppet housing down.

2. Install a new foam ring onto the inner shaft.



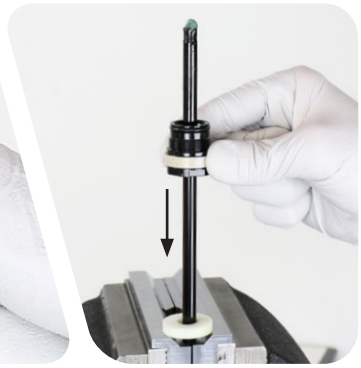
3. Apply a liberal amount of RockShox Dynamic Seal Grease to the inside of a new internal seal head assembly.

   Install the internal seal head assembly onto the inner shaft, hex end (A) first.

   Slide the internal seal head below the shaft end.

   NOTICE

   If the seal head is installed onto the shaft in either the correct orientation and removed, or the incorrect orientation and removed, the internal oil seal will become permanently damaged from the shaft threads and it cannot be used. If the new seal head is installed and removed, the seal head must be discarded and a new seal head must be installed in the correct orientation.



4 Thread the main piston onto the inner shaft by hand.

Tighten the main piston to the specified torque.

NOTICE

Do not scratch the inner shaft with the wrench as this is a critical sealing surface. Surface scratches can cause leaks and reduce performance.

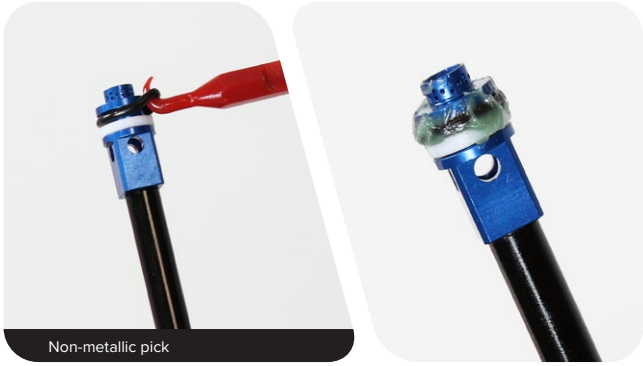
5 Remove the inner shaft assembly from the vise.

Remove the main piston o-ring, and discard it.

Apply RockShox Dynamic Seal Grease to the new main piston o-ring and install it.

NOTICE

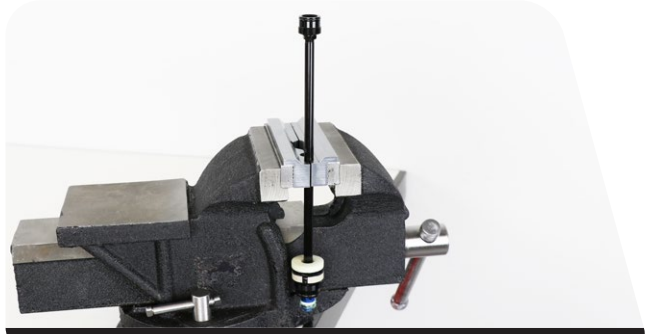
Do not scratch any part of the main piston seal gland.



6 Slide the seal head assembly toward the main piston until it stops.

Set the inner shaft assembly aside on a clean shop towel.

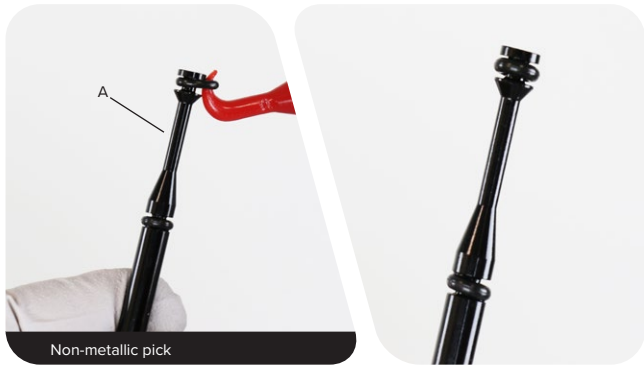
1 Clamp the inner shaft into the Reverb Vise Blocks, poppet valve housing oriented up.



Reverb Vise Blocks - 7.5 mm

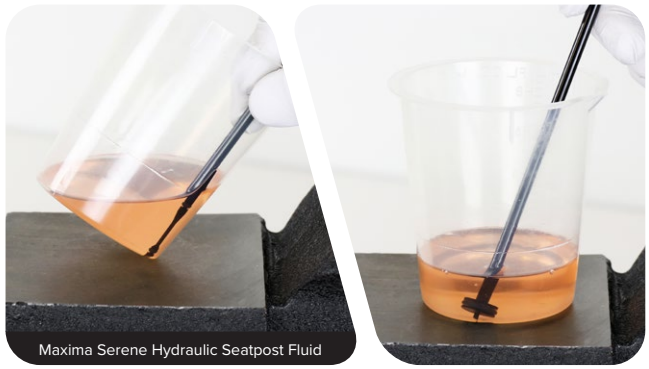
2 Clean the poppet valve and o-rings with a clean lint-free shop towel.

Remove and discard **only** the o-ring at the narrow end (A) of the poppet valve. Clean the o-ring gland with a clean lint-free shop towel. Install a new o-ring.



Non-metallic pick

3 Coat each o-ring with seatpost hydraulic fluid.



Wipe fluid from the poppet valve under the large o-ring.

NOTICE

Allow excess fluid to drip off poppet valve before installation. Excessive fluid coating may decrease performance.

4 Insert the poppet valve into the inner shaft, narrow end first.

Push the poppet valve into the poppet valve housing until the large o-ring is 4 mm above the top edge of the poppet valve housing.

NOTICE

Do not bend the poppet valve during installation. If the poppet valve is damaged it cannot be used.

Remove the inner shaft assembly from the vise and set it aside on a clean shop towel.

1 Clamp the upper post head back into the Reverb Vise Blocks.

Wrap a shop towel around the top of the upper post. Pour seatpost hydraulic fluid into the IFP tube until the fluid overflows into the upper post and is level with the top of the upper post.

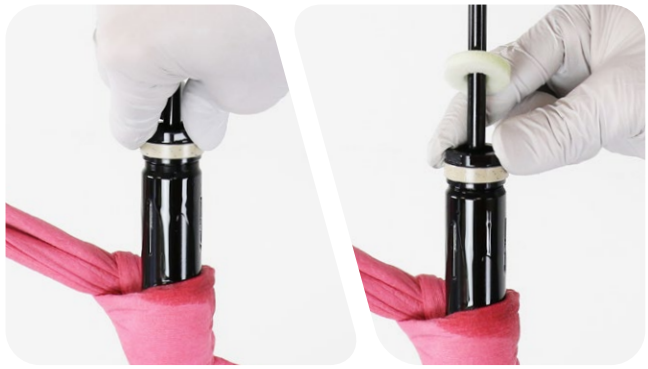

Reverb Vise Blocks - FLAT

Maxima Serene Hydraulic Seatpost Fluid

Use your finger to remove any bubbles from the surface of the fluid if bubbles are visible.

2 Hold the inner shaft and press the seal head against the main piston with your thumb. Insert the main piston into the fluid and IFP tube.

3 Push the seal head into the upper post and thread the seal head into the upper post by hand.



The poppet valve may move slightly up in the poppet valve housing during seal head installation. If this occurs, carefully push the poppet valve back into the poppet valve housing, without moving the inner shaft, and stop when the large o-ring is 4 mm above the top edge of the poppet housing.

NOTICE

Do not compress the inner shaft into the upper post and IFP tube until the seatpost is completely assembled and pressurized. If the inner shaft does get pressed into the IFP tube, the IFP removal and installation procedures must be repeated.

4 Tighten the seal head to the specified torque.

5 Push the poppet valve into the poppet housing until the large o-ring engages the housing and the top of the poppet valve is flush with the top of the housing.

The poppet valve may extend from the housing due to internal hydraulic pressure. If this occurs, gently push it back into the housing.

NOTICE

Do not scratch the inner shaft with the wrench as this is a critical sealing surface. Surface scratches can cause leaks and reduce performance.

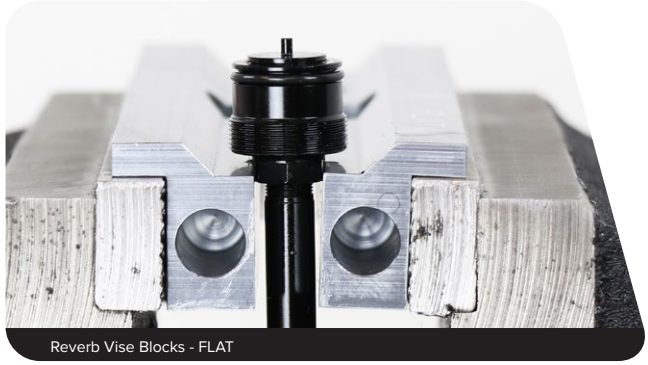
Do not compress the inner shaft into the upper post and IFP tube until the seatpost is completely assembled and pressurized. If the inner shaft does get pressed into the IFP tube, the IFP removal and installation procedures must be repeated.

6 Remove the upper post assembly from the vise.

Clamp the poppet housing wrench flats in the Reverb Vise Blocks.

NOTICE

To avoid damage to the inner shaft, do not clamp the inner shaft into the flat section of the Reverb Vise Blocks.



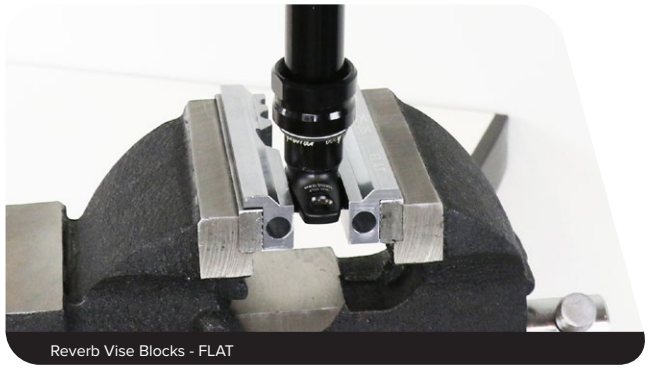
Reverb Vise Blocks - FLAT

7 Install the poppet valve cover onto the poppet valve housing and thread it on by hand.

Tighten the poppet valve cover onto the poppet valve housing to the specified torque.

Remove the upper post assembly from the vise.

1 Clamp the upper post head into the vise with **Reverb Vise Blocks.**


Reverb Vise Blocks - FLAT

2 Apply a liberal amount of RockShox Dynamic Seal Grease onto the seal head bushing.

3 Apply a liberal amount of RockShox Dynamic Seal Grease to the inside of the lower post tube and into the key grooves.

4 Install the lower post onto the upper post.

Squeeze the seal head bushing, and slide the lower post down over the seal head bushing. Stop when the lower post covers the bushing.

NOTICE

Side-to-side movement of the upper tube is an indication that the brass keys are worn and need to be replaced. Vertical lines on the key are an indication that the key is worn.

New brass keys must be the same size and have the same number of etched lines as the original brass keys for proper function.

Refer to the RockShox spare parts catalog at www.sram.com/service for a list of brass key kits available.

1 Apply a liberal amount of RockShox Dynamic Seal Grease onto each key slot.

Install the brass keys into the key slots. The orientation of the brass keys is not critical.

Apply a liberal amount of RockShox Dynamic Seal Grease onto the brass keys and upper post.

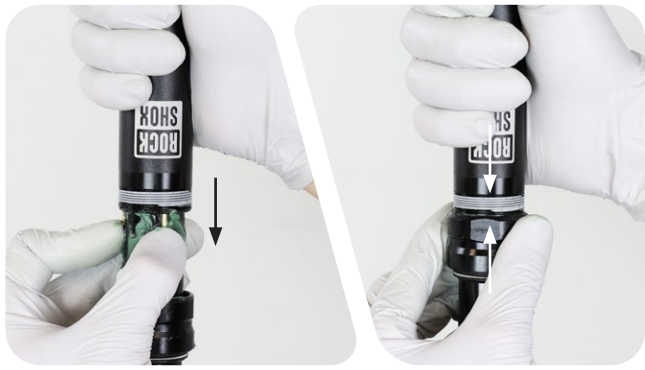
Slide the collar up and down to lubricate the upper post and the collar bushing and seal.

2 Align the lower post key slots with the brass keys and ensure the laser etched RockShox logo is aligned with the **back** of the seatpost head.

Key Slots

Hold each brass key in place and slide the lower post down until it engages the keys. Continue to slide the lower post down over the brass keys.

Slide the collar up until it contacts the lower post threads. Thread the collar onto the lower post by hand.



3 Tighten the collar.

Remove the seatpost from the vise.

NOTICE

Do not scratch the upper post with the wrench. Scratches can allow contaminants to enter the lower tube, damage the upper post outer surface, and degrade performance.

1 Clamp the lower post into the Reverb Vise Blocks with the post head oriented up.

Pressurize the seatpost to 300 psi (20.7 bar).

Reinstall the air cap finger tight.

2 Remove the seatpost from the vise and clamp the lower post into the Reverb Vise Blocks with the post head oriented down.

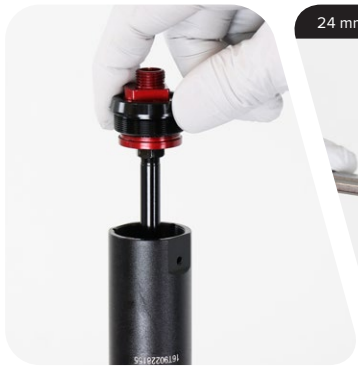
Push the upper post up to expose the poppet valve housing.

3 Install the lock ring onto the poppet valve cover and thread it on by hand.

Tighten the lock ring onto the poppet valve cover to the specified torque.

NOTICE

Do not scratch the inner shaft with the wrench as this is a critical sealing surface. Surface scratches can cause leaks and reduce performance.



4 Pull the upper post down to full extension until the lock ring threads contact the lower post.

Thread the lock ring into the lower post and tighten it to the specified torque.

Remove the seatpost from the vise.

To continue with the **50/200/600 Hour Service** proceed to Connect to Seatpost.

Hose Barb Replacement (OPTIONAL)

Replace the remote hose barb only if it is damaged from impact.

If the hydraulic hose assembly is removed from the bicycle, refer to the 'Reverb Stealth and Reverb Hydraulic Hose Replacement and Remote System Bleed' manual at www.sram.com/service for installation procedures. For a list of available Reverb Stealth hydraulic hose kits, refer to the RockShox Spare Parts catalog at www.sram.com/service.

NOTICE

If Reverb hydraulic fluid leaks from the remote lever while under pressure or in use, the remote lever assembly must be replaced.

1 Hold the hydraulic hose near the hose barb. Rotate the Reverb remote lever counterclockwise and unthread the hose from the remote hose barb.


Standard Remote


Reverb 1x Remote

2a **Standard Remote:** Unthread the barb from the remote and discard it.


6 mm Standard Remote

Install a **new** hose barb and tighten it.


6 mm 3.2 N•m (28 in-lb)

2b **Reverb 1x Remote:** Remove the strain relief nut.

Remove the hose barb and discard it.

3 Cut 3 - 4 mm off the end of the hose.

4a **Standard Remote:** Thread the remote lever hose barb into the hydraulic hose. Hold the end of the hose and rotate the remote lever clockwise while pushing the remote lever barb into the hose. Stop when the hose is hand tight on the hose barb.

NOTICE

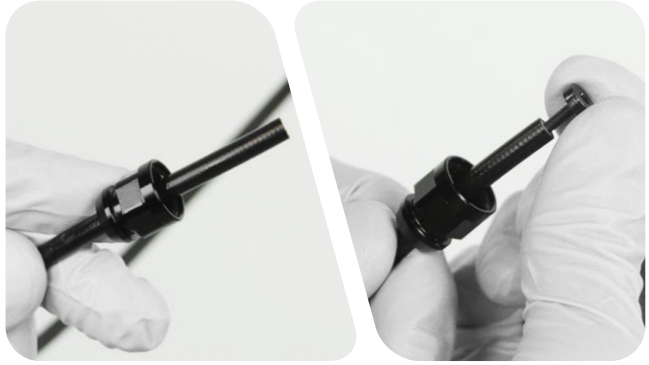
Do not over-tighten and strip the threads inside the hydraulic hose. If the hose is over or under tightened, hydraulic fluid can leak.

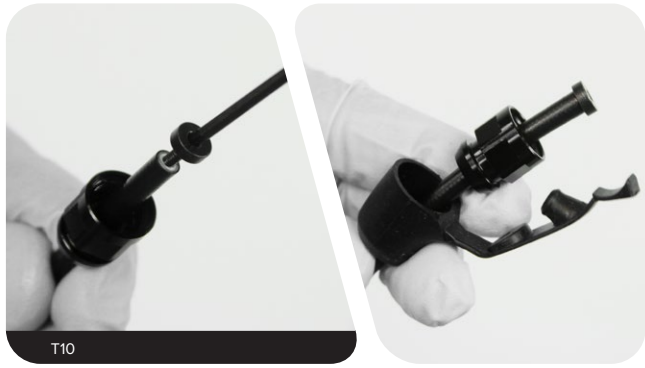
4b **Reverb 1x Remote:** Insert the strain relief nut onto the hose.

Thread a new hose barb into the hose until it contacts the barb flange.

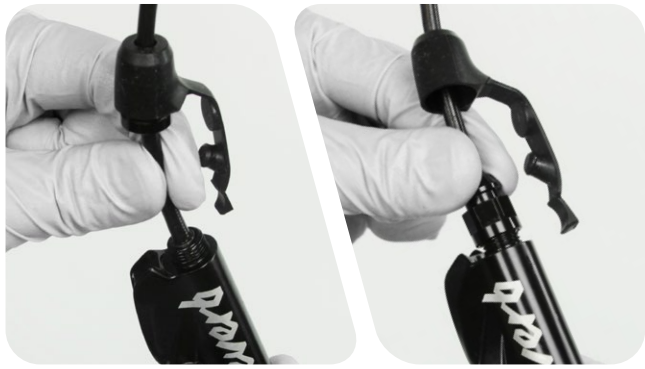
NOTICE

Do not over-tighten and strip the threads inside the hydraulic hose. If the hose is over or under tightened, hydraulic fluid can leak.





4c **Reverb 1x Remote:** Insert the hose barb into the remote and thread the strain relief nut onto the remote.



Tighten to the correct torque.

The Reverb remote hydraulic system must be bled after the hose is installed onto the remote lever. Refer to the 'Reverb Stealth and Reverb Hydraulic Hose Replacement and Remote System Bleed' manual, available at www.sram.com/service, for hydraulic remote system bleed and seatpost installation procedures.

50/200/600 Hour Service Connect to Seatpost

There are two Reverb Stealth C1 hydraulic hose connection types: 1) hose barb and barb strain relief nut and 2) Connectamajig. Follow the procedure in step 2 for the hose connection type on your Reverb Stealth C1.

1 Clamp the seatpost into a bicycle work stand. Position the bicycle under the seatpost. Place a shop towel under the seatpost and hose to absorb any hydraulic fluid that may drip.

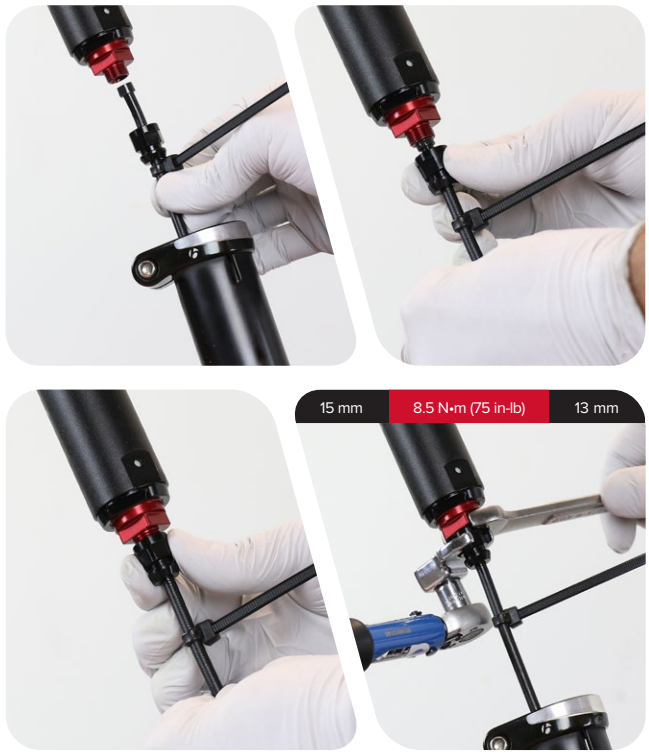
Push the hydraulic hose into the frame hose port as needed.

⚠WARNING

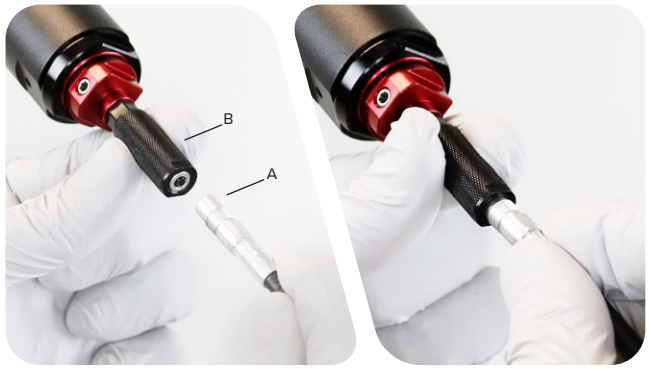
Do not allow Reverb hydraulic fluid to come into contact with any brake components. Contaminated brake components can compromise brake performance, may cause brake failure, and can lead to serious injury and/or death.

2a **Hose Barb and Barb Strain Relief Nut**: Place the flat end of the hose barb into the recessed end of the poppet valve cover. Thread the strain relief nut onto the poppet valve cover and tighten it to the specified torque.

Remove the cable tie.



2b **Connectamajig:** Connect the hose coupler (A) to the Connectamajig coupler collar (B). Use your fingers to push the Connectamajig hose coupler firmly into the Connectamajig coupler collar until it stops; hold it in place.



Thread the hose coupler into the Connectamajig coupler by turning the coupler collar clockwise.

Use a 6 mm open end wrench to hold the hose coupler and tighten the Connectamajig coupler collar to the specified torque.

This concludes service for the RockShox Reverb Stealth C1 adjustable height seatpost.

The Reverb Stealth hydraulic remote system must be bled before the seatpost can be reinstalled and used. Refer to the *Reverb Stealth and Reverb Hydraulic Hose Replacement and Remote System Bleed* manual, available at www.sram.com/service, for bleed and seatpost installation procedures.

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