



# 2017 Reverb



## Service Manual

# SRAM LLC WARRANTY

## EXTENT OF LIMITED WARRANTY

Except as otherwise set forth herein, SRAM warrants its products to be free from defects in materials or workmanship for a period of two years after original purchase. 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 component was purchased. Original proof of purchase is required. **Except as described herein, 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.**

## LOCAL LAW

This warranty statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state (USA), from province to province (Canada), and from country to country elsewhere in the world.

To the extent that this warranty statement is inconsistent with the local law, this warranty shall be deemed modified to be consistent with such law, under such local law, certain disclaimers and limitations of this warranty statement may apply to the customer. For example, some states in the United States of America, as well as some governments outside of the United States (including provinces in Canada) may:

- a. Preclude the disclaimers and limitations of this warranty statement from limiting the statutory rights of the consumer (e.g. United Kingdom).
- b. Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations.

## For Australian customers:

This SRAM limited warranty is provided in Australia by SRAM LLC, 1000 W. Fulton Market, 4th Floor, Chicago, IL, 60607, USA. To make a warranty claim please contact the retailer from whom you purchased this SRAM product. Alternatively, you may make a claim by contacting SRAM Australia, 6 Marco Court, Rowville 3178, Australia. For valid claims SRAM will, at its option, either repair or replace your SRAM product. Any expenses incurred in making the warranty claim are your responsibility. The benefits given by this warranty are additional to other rights and remedies that you may have under laws relating to our products. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## LIMITATIONS OF LIABILITY

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event shall SRAM or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages.

## LIMITATIONS OF WARRANTY

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

This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturers specifications of 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.

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 are identified as:

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

**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.

This warranty shall not cover damages caused by the use of parts that are not compatible, suitable and/or authorised by SRAM for use with SRAM components.

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

# TABLE OF CONTENTS

<b>EXPLODED VIEW - ASSEMBLY .....</b>	<b>5</b>
<b>EXPLODED VIEW - COMPONENT .....</b>	<b>6</b>
<b>GETTING STARTED.....</b>	<b>7</b>
Product Identification - Reverb B1.....	7
Parts, Tools, and Supplies.....	8
Recommended Service Intervals .....	9
Service History.....	9
Brass Key Size .....	9
Torque Values.....	9
<b>SEATPOST SERVICE.....</b>	<b>10</b>
<b>50/200/400 Hour Service</b>	
Seatpost Removal .....	10
Lower Post Removal .....	12
<b>200 Hour Service</b>	
Top Cap and Seal Head Bushing Replacement.....	16
<b>400 Hour Service</b>	
Inner Shaft and Seal Head Removal.....	19
Poppet Valve Removal.....	20
Upper Post Disassembly .....	22
Top Cap Installation.....	25
Inner Shaft Assembly .....	26
Internal Floating Piston (IFP) Installation.....	27
Inner Shaft Installation .....	31
Poppet Valve Installation .....	35
<b>50/200/400 Hour Service</b>	
Lower Post Installation.....	37
Brass Keys Installation .....	38
<b>50/200/400 Hour Service</b>	
Pressurize Seatpost.....	42
<b>REMOTE LEVER.....</b>	<b>43</b>
Hose Barb Replacement (optional) .....	43
<b>SEATPOST INSTALLATION.....</b>	<b>44</b>
<b>50/200/400 Hour Service</b>	
Installation into Bicycle.....	44
Hose and Remote Installation .....	45



# **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!

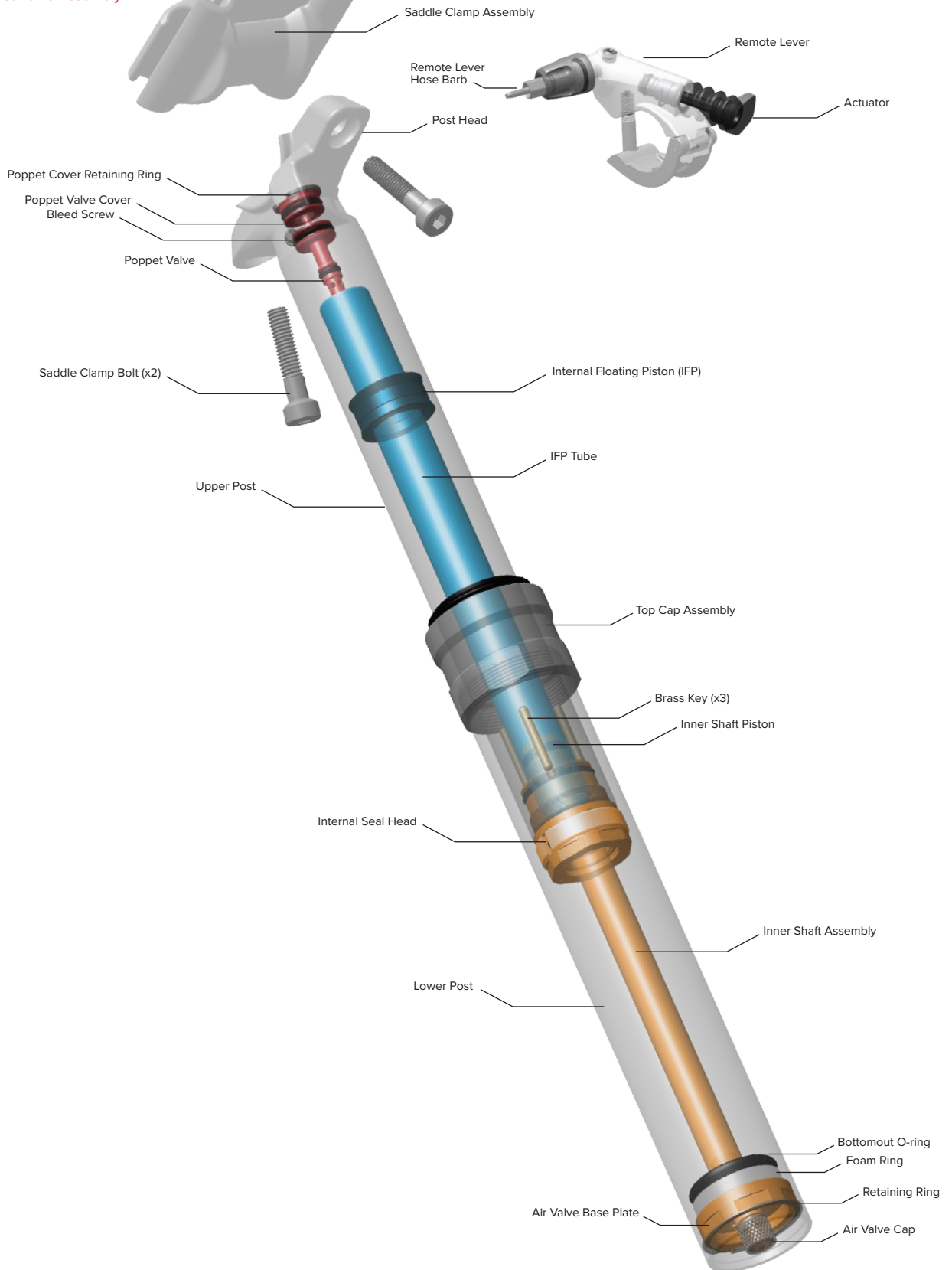
# Exploded View - Assembly



Inner Shaft Assembly

Internal Floating Piston Assembly

Poppet Valve Assembly



# Exploded View - Component



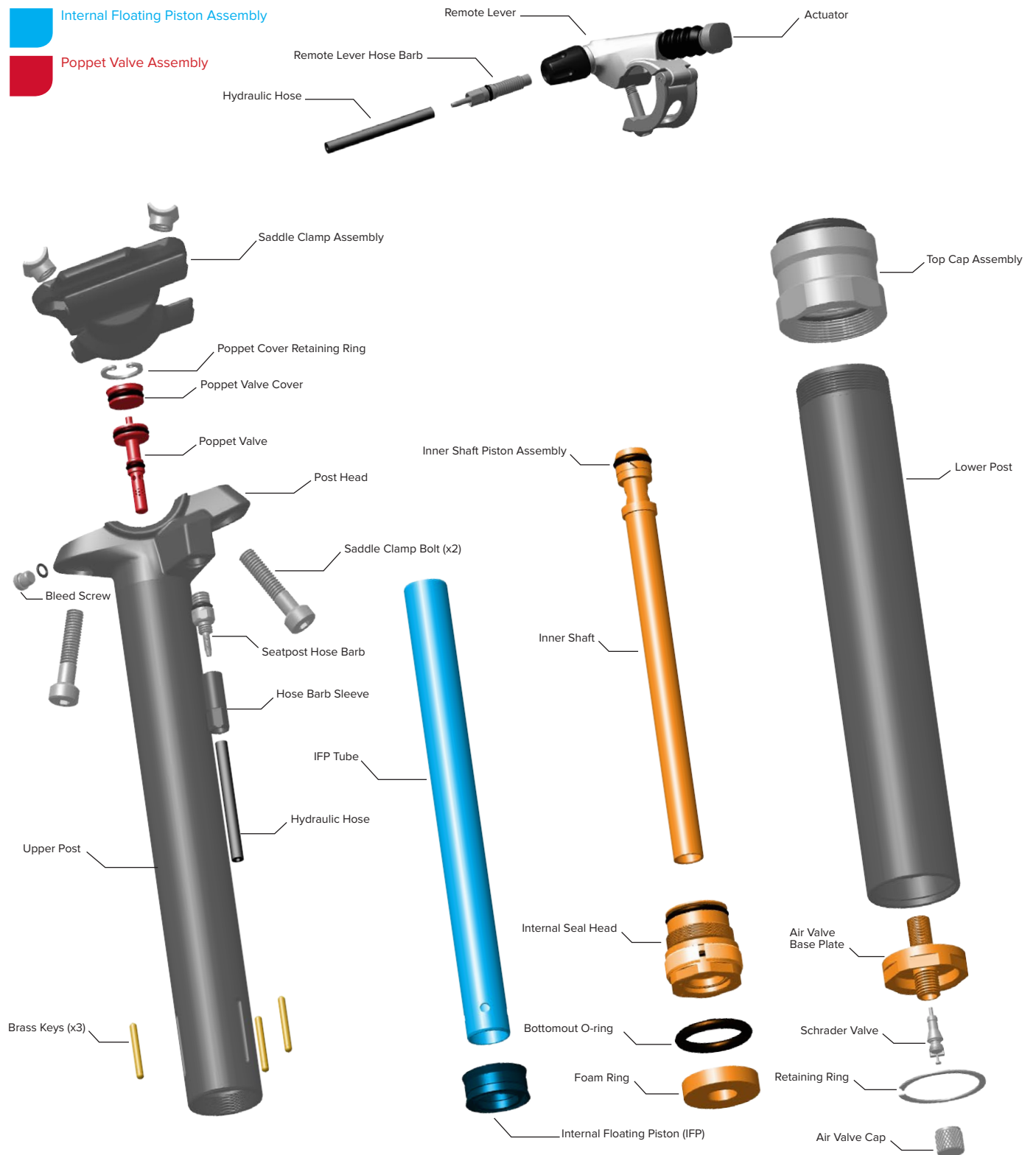
Inner Shaft Assembly



Internal Floating Piston Assembly



Poppet Valve Assembly



## Getting Started

The Reverb™ adjustable height seatpost and hydraulic remote system require regular maintenance in order to maintain proper function. Failure to do so may lead to reduced performance over time.

We recommend that you have your RockShox® Reverb seatpost serviced by a qualified bicycle mechanic. Servicing RockShox products requires knowledge of suspension components as well as specialized tools and fluids used for service.

For exploded diagram and part number information, please refer to the Spare Parts Catalog available at [www.sram.com/service](http://www.sram.com/service). Use only spare part kits compatible with Reverb B1, unless otherwise identified. 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/diagrams contained in this publication.

For the latest technical information, please visit [www.sram.com/service](http://www.sram.com/service).

## Product Identification - Reverb B1

Production versions of Reverb can be identified visually. If your Reverb differs in appearance, refer to the RockShox Reverb A1-A2 Seatpost Service video, located at [www.sram.com/service](http://www.sram.com/service) for service procedures.



## SAFETY INSTRUCTIONS

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

Do not allow Reverb hydraulic fluid to come into contact with disc brake levers and calipers, brake pads, disc brake rotors, or braking surfaces. If Reverb hydraulic fluid contacts brake pads, the brake pads must be replaced. Use isopropyl alcohol to remove Reverb fluid from any brake or braking surface. Failure to remove Reverb fluid from brakes and braking surfaces can result in serious injury and/or death the rider.

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

## NOTICE

Before beginning the service process, thoroughly clean the exterior of the product to avoid contamination of internal sealing part surfaces.

Use isopropyl alcohol and a clean rag to clean each part before installing new seals. Inspect each part for scratches. Do not scratch any sealing surfaces when servicing your Reverb™. Scratches can cause leaks and will reduce performance of the seatpost.

Use soft jaw vise inserts to prevent damage to the seatpost when clamping parts into a vise. Clamp each part only tight enough to prevent it from spinning in the soft jaws.

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

Apply **only** SRAM® Butter grease onto Reverb parts, seals and o-rings.



## ⚠️ IMPORTANT

When in the compressed position, never pull up on the saddle or forcefully extend the Reverb seatpost.

## Parts, Tools, and Supplies

### Parts

- Reverb B1 Service Kit - 200 Hour
- Reverb B1 Service Kit - 400 Hour
- Reverb brass keys, quantity 3 (use correct size)
- Reverb hydraulic hose kit (optional)
- Reverb remote lever hose barb (optional)

### Safety and Protection Supplies

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

### Lubricants and Fluids

- Isopropyl alcohol
- RockShox® Reverb hydraulic fluid (included with RockShox Bleed kit)
- SRAM Butter (grease)

### RockShox Tools

- Reverb IFP Height tool
- Reverb Oil Height tool
- Reverb Post Bleed tool
- RockShox Bleed kit
- RockShox Vise Block Inserts

### Bicycle Tools

- Bicycle work stand
- Park Tool® AV-5 vise inserts
- Schrader valve core tool
- Shock pump (300 psi max)

### Tools

- 1.5 and 4 mm hex wrenches
- 4 mm hex bit socket
- 7, 23, 26, and 34 mm open end wrenches
- 7, 23, 26, and 34 mm crowfoot sockets
- Adjustable open end wrench (≤ 34 mm) (optional)
- Air compressor with air gun nozzle
- Bench vise
- Flat soft jaw vise inserts (aluminum)
- Internal retaining ring pliers (small)
- Metric tape measure or ruler
- Needle nose pliers
- Plastic cable ties (quantity 7-9, 15-20 cm length)
- Pick
- Socket wrench
- Torque wrench (see [Torque Values chart](#) for range)
- T25 TORX® bit socket
- T25 TORX wrench



## 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](http://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 <i>Reverb™ B1 Service Kit - 200 Hours</i>	Reduces friction
		Extends seatpost lifespan
	Perform full hydraulic remote system bleed	Ensures proper remote actuation function
Every 400 Hours	Replace all parts included in the <i>Reverb B1 Service Kit - 400 Hours</i> .	Restores hydraulic system and function

## Service History

Record each date of service to track service intervals.

	Service Hours Interval							
	50	100	150	200	250	300	350	400
Date of Service								

## Brass Key Size

<b>Size</b> = Record the number of etched lines on each key. Replace with the same <a href="#">size keys</a> .	
----------------------------------------------------------------------------------------------------------------	--

## Torque Values

Part	Tool	Torque
Internal seal head	23 mm open end wrench	28 N•m (250 in-lb)
Top cap assembly	34 mm open end wrench	27-29 N•m (238-256 in-lb)
Air valve base plate	26 mm open end wrench	3.9-5.1 N•m (35-45 in-lb)
Post hose barb	7 mm open end wrench	3.4-4.5 N•m (30-40 in-lb)
Post bleed screw	T10 TORX® wrench	1.1-2.2 N•m (10-20 in-lb)
Remote bleed screw	T10 TORX wrench	1.1-2.2 N•m (10-20 in-lb)
Seatpost collar	Various	Do not exceed 6.7 N•m (59 in-lb)
Saddle clamp bolts	4 mm hex wrench	8-10 N•m (70-89 in-lb)
Remote lever hose barb	7 mm open end wrench	2.9-3.5 N•m (25-30 in-lb)
Remote lever clamp	T25 TORX wrench	2.8-3.4 N•m (25-30 in-lb)

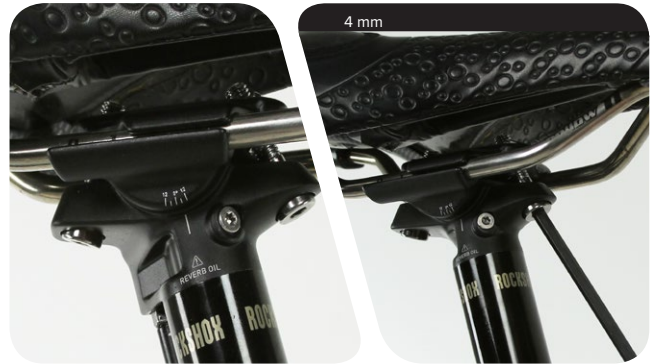
- 1 Secure the bicycle in an upright position.

### NOTICE

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



- 2 Record your saddle position setting.  
Remove the saddle and saddle clamps from the seatpost.



- 3 Disconnect the hydraulic hose from the bicycle frame.



- 4 Turn the Speed adjuster knob in the opposite direction of the arrow (counter-clockwise) until it stops.



- 5 Remove the remote lever assembly from the bicycle handlebar.



- 6 Wrap a rag around the upper post and hose barb.  
*The rag will absorb any Reverb™ hydraulic fluid that may drip.*

Unthread and remove the hose barb and hose.

Hydraulic fluid may drip from the hose barb. Cover the end of the hose barb with a rag if necessary

**⚠ 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.



- 7 Pull the hose barb and hose through the Reverb hose guide.



- 8 Remove the seatpost from the bicycle frame.



**NOTICE**

Use bench vise soft jaw inserts to prevent damage to the seatpost or any seatpost components when clamping it into a vise. Clamp each component only tight enough to prevent it from spinning in the soft jaws. Clean the vise soft jaws with isopropyl alcohol and a clean rag before use.

- 1** Clamp the seatpost into a bench vise with Park Tool® AV-5 vise inserts.



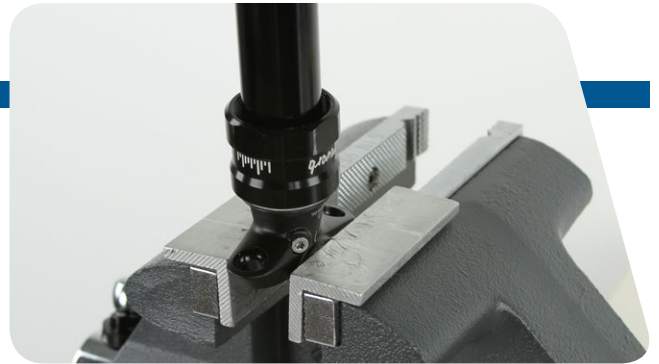
- 2** Unthread the top cap assembly.  
Slide the top cap up to the post head.  
Remove the seatpost and soft jaw inserts from the vise.



- 3** Insert flat soft jaw inserts into the vise.  
Clamp the post head into the vise.

**NOTICE**

Clamp only the flat surfaces of the post head. Do not clamp over the bleed port or on the hose barb port.



- 4** Remove the air cap.  
Wrap a rag around the air valve to absorb any hydraulic fluid that may escape when the Schrader valve is depressed.  
Depress the Schrader valve and release all air pressure from the air chamber.

**⚠ WARNING - EYE HAZARD**

Keep your face and eyes away from the air valve when deflating the seatpost. 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.



- 5** Lift the scalloped end of the retaining ring and remove the retaining ring from the post.

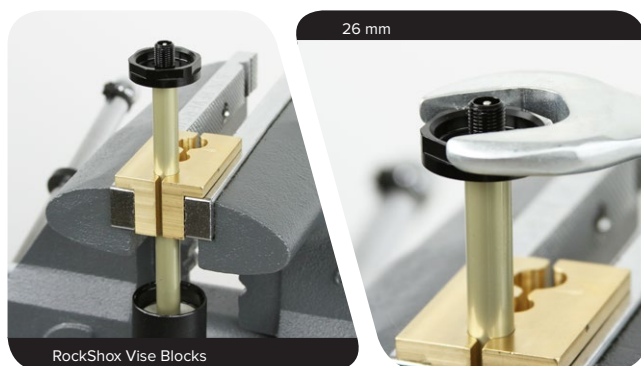


- 6** Slide the lower post down to expose the air valve base plate. Remove the seatpost from the vise.



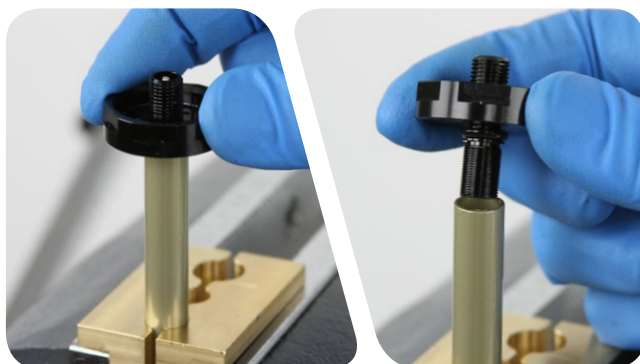
- 7** Spray the inner shaft and RockShox® Vise Blocks with isopropyl alcohol and wipe them with a clean rag. The clamping surfaces must be free of oil and grease.

Clamp the inner shaft into the 10 mm slot in the vise blocks.



Unthread and remove the air valve base plate from the inner shaft.

Remove the seatpost and vise blocks from the vise.





- 8 Insert flat soft jaws into the vise.  
Clamp the post head into the vise.

**NOTICE**

Clamp only the flat surfaces of the post head. Do not clamp over the bleed port or on the hose barb port.



- 9 Slide the lower post assembly up and remove it from the upper post.

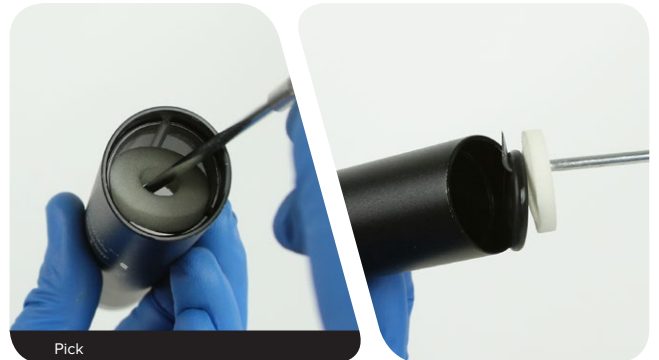


- 10 Remove the foam ring and bottomout o-ring.

Clean the inside and outside of the lower post with isopropyl alcohol and a rag, then set it aside.

**50 Hour Service** Clean the foam ring and o-ring with isopropyl alcohol and a rag.

**200 and 400 Hour Service** Discard the foam ring and o-ring.

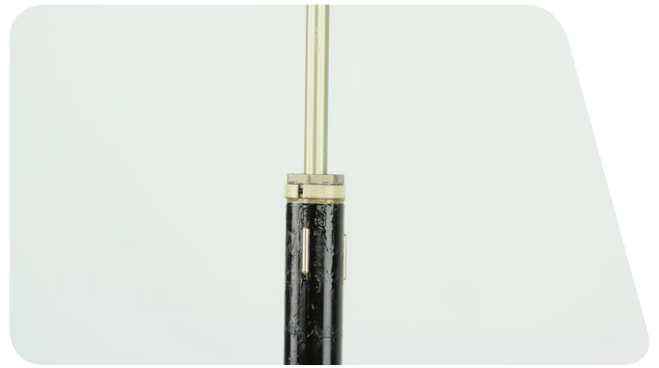


11

Remove the three brass keys from the upper post.

On [page 9](#), record the number of lines, which indicate key size, marked on the brass keys for future reference. The brass keys should be replaced with new brass keys of the same size, if worn, during each service interval.

Clean the upper post and keys with isopropyl alcohol and a clean rag.



To continue with the **50 Hour Service** skip to [Brass Keys Installation](#).

The following steps are to be completed during the 200 hour service interval and include replacing parts included in the **Reverb™ B1 Service Kit - 200 hour**. These steps do not require complete disassembly of the upper post assembly.



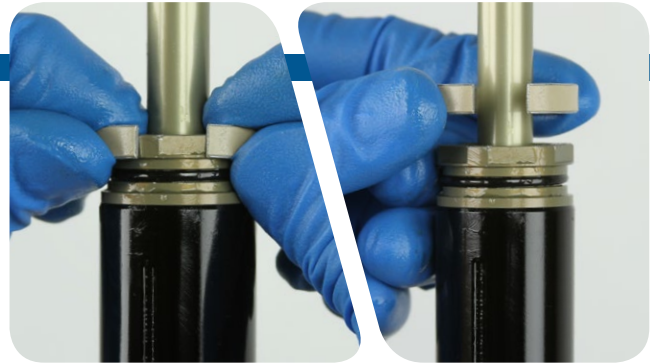
To continue with the **400 Hour Service** proceed to [Inner Shaft and Seal Head Removal](#).

**1**

Remove the seal head bushing and discard it.

**NOTICE**

The bushing may have sharp edges. Do not scratch the inner shaft with the bushing.

**2**

Remove the seal head o-ring and discard it.

**3**

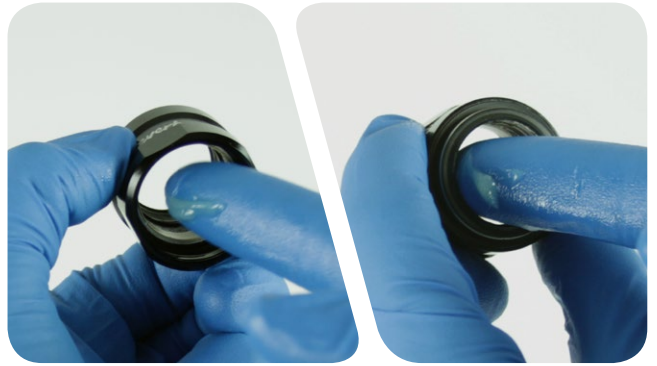
Remove the top cap assembly and discard it.

Spray isopropyl alcohol onto the upper post and inner shaft assembly and wipe them with a clean rag.





- 4** Apply a liberal amount of SRAM® Butter grease around the inside of a **new** top cap assembly and onto the seals.



- 5** Install the new top cap assembly, wiper seal end first, over the seal head and onto the upper post assembly. Slide the top cap assembly down until it is positioned below the upper post key slots.

**NOTICE**

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



- 6** Install a new o-ring and bushing onto the seal head. Pinch the bushing to secure it around the seal head.

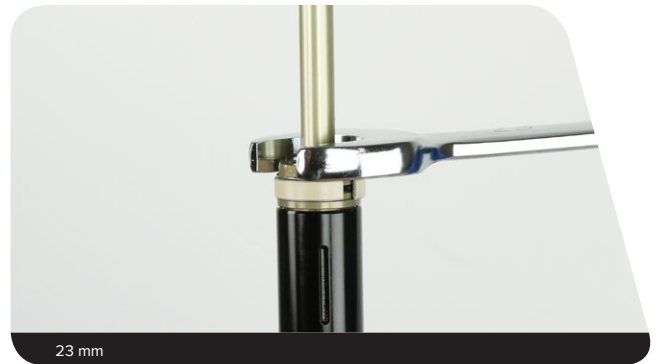


 To continue the **200 Hour Service**, skip to [Brass Keys Installation](#).

**⚠ WARNING - EYE HAZARD**

There may be remaining air pressure inside the upper post assembly. Keep your eyes and face away from the seal head during disassembly.

- 1 Unthread the seal head three full turns. Do not remove the seal head.



- 2 Hold a rag over and around the seal head. Slowly unthread the seal head by hand while holding the rag **firmly** over the seal head.

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

Carefully remove the seal head and inner shaft assembly from the upper post.

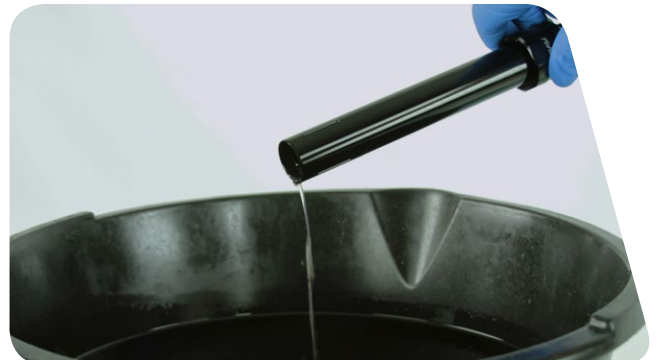
**⚠ WARNING - EYE HAZARD**

In the event there is any remaining air pressure inside the upper post assembly, the rag will prevent the internal seal head from dislodging from the upper post during removal. Failure to do so may allow the inner seal head and inner shaft to separate from the upper post assembly at high velocity during disassembly.

Keep your face and eyes away from the seal head while it is being unthreaded and removed. Wear safety glasses.



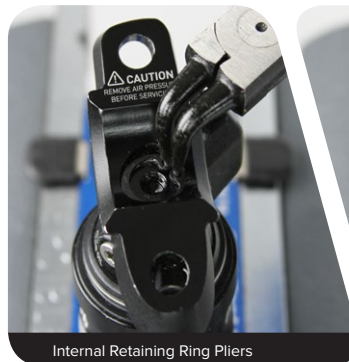
- 3 Remove the upper post from the vise and pour the hydraulic fluid into an oil pan or container.



- 1 Clamp the upper post into a bench vise and Park Tool® AV-5 vise inserts.



Remove the poppet cover retaining ring.



- 2 Thread the RockShox® Bleed syringe fitting into the poppet cover. Pull the poppet cover out of the post head with the syringe fitting. Unthread the poppet cover from the syringe. Clean the poppet cover with isopropyl alcohol and set it aside.



- 3** Remove the poppet valve from the housing and inner shaft. Set the poppet valve aside.



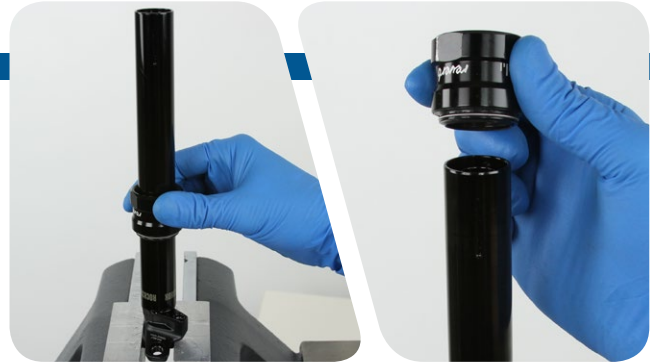


- 1 Clamp the upper post head into the vise with flat soft jaws.

**NOTICE**

Clamp only the flat surfaces of the post head. Do not clamp over the bleed port or on the hose barb port.

Remove and discard the top cap assembly.



- 2 Insert a 1.5 mm hex wrench into one of the cross holes in the IFP tube. Carefully pull the IFP tube up. Use your other 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.

**NOTICE**

Do not scratch the inner surface of the upper post with the hex wrench. Surface scratches can cause leaks and reduce performance of the seatpost.

Use isopropyl alcohol and a rag to clean the inside and outside of the IFP tube.



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

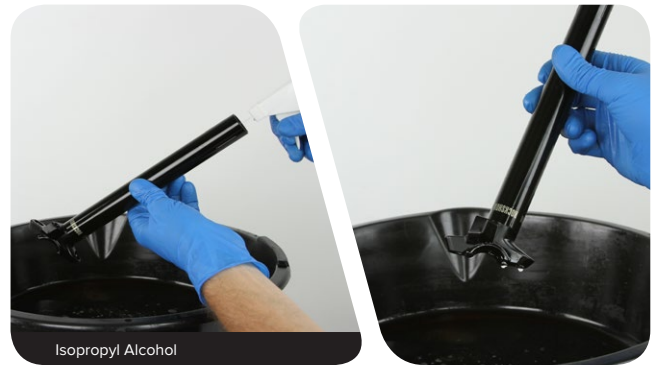
Pull the cable ties out of the upper post and remove the IFP.

Discard the IFP.



- 4** Remove the upper post from the vise.

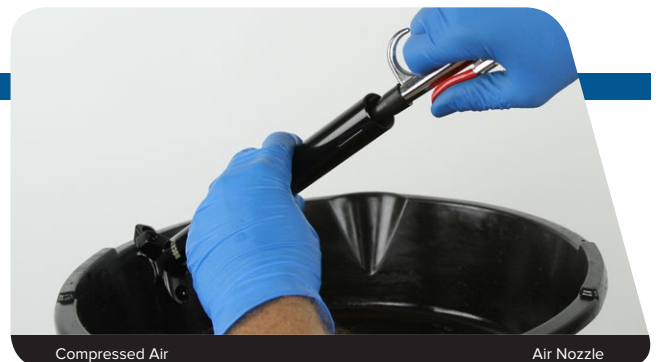
Hold the post over an oil pan and spray isopropyl alcohol into it. Allow the isopropyl alcohol to drain into the oil pan.



- 5** Use an air nozzle and compressed air to dry the inside of the upper post.

#### **NOTICE**

The inside of the upper post must be completely dry before reassembly.



- 6** Clean the inside of the post head and the outside of the upper post with isopropyl alcohol and a rag.





- 1 Clamp the upper post head into the vise with flat soft jaws.

**NOTICE**

Clamp only the flat surfaces of the post head. Do not clamp over the bleed port or on the hose barb port.



- 2 Apply a liberal amount of SRAM® Butter grease around the inside of a new top cap assembly and onto the seals.

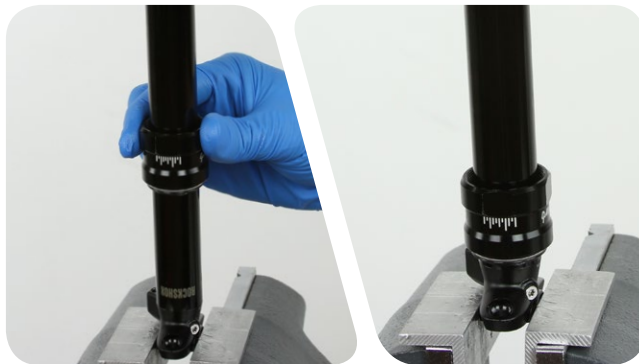


- 3 Install the new top cap assembly, wiper seal end first, onto the upper post assembly. Slide the top cap assembly down until it is positioned below the upper post key slots.

**NOTICE**

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

Remove the post from the vise and set it aside.



**NOTICE**

To remove external seals and o-rings, use your fingers to pinch the o-ring and lift it from the o-ring groove. Then use a pick to carefully remove it.

To remove internal seals and o-rings, use a pick to pierce the seal or o-ring and lift it from the o-ring groove. Then use a pick to carefully remove it.

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

Use isopropyl alcohol and a clean rag to clean each part before installing new seals.

Apply **only** SRAM® Butter grease to all new Reverb parts, seals and o-rings.



- 1** Remove the inner shaft piston o-ring.  
Install a new piston o-ring.



- 2** Apply a liberal amount of SRAM Butter grease to the inside of the **new** internal seal head assembly.



space between frames

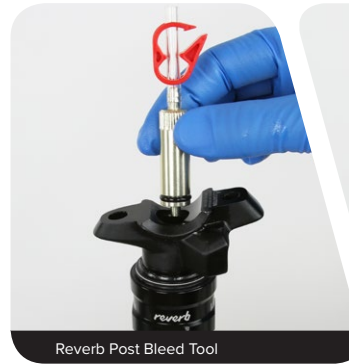
space between steps

- 3** Install the internal seal head assembly onto the inner shaft, threaded end first, and slide it to the middle of the shaft.

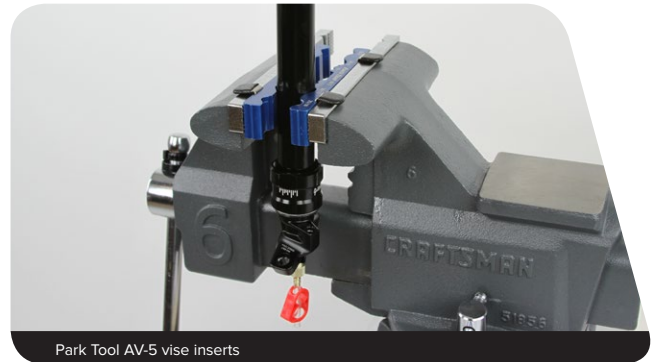


- 1 Place an oil pan under the Reverb™ seatpost.  
Insert the Reverb Post Bleed Tool firmly into the poppet valve port in the post head.

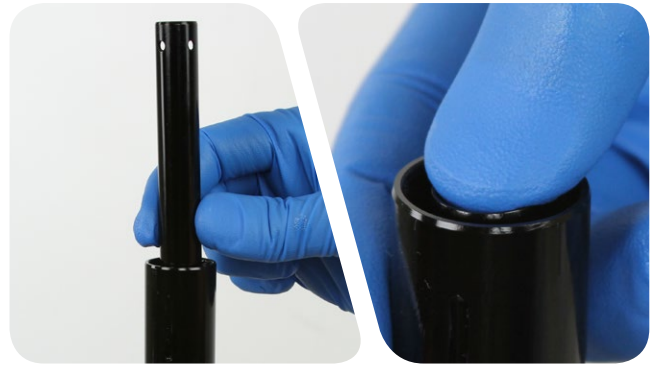
Close the bleed hose clamp.



- 2 Spray the upper post and Park Tool® AV-5 vise inserts with isopropyl alcohol and wipe clean them with a clean rag. The clamping surfaces must be free of oil and grease.  
Clamp the upper post into the vise inserts. Clamp only tight enough to prevent it from spinning in the vise inserts.



- 3** Install the IFP tube with the cross holes facing up, into the upper post. Rotate the IFP tube in a circular motion while pressing down until the IFP tube seats itself onto the seal inside the bottom of the upper post. When the IFP tube snaps securely into place, a click will be heard. Ensure the IFP tube is secured and centered.



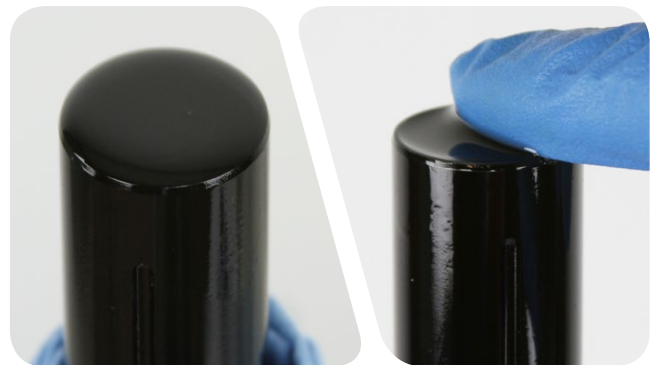
The IFP tube should be below the top of the upper post when installed correctly.



- 4** Wrap a rag around the upper post. Pour Reverb™ hydraulic fluid into the IFP tube until the fluid overflows and is level with the top of the upper post.



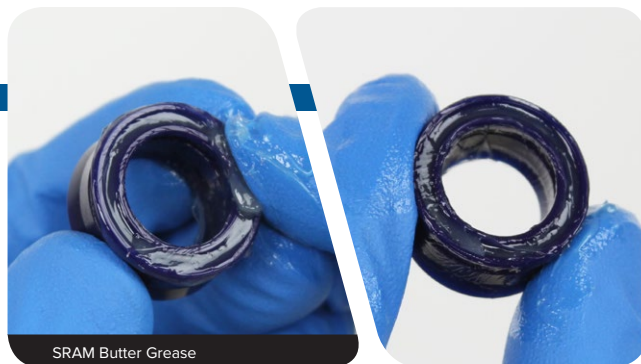
Use your finger to remove any bubbles from the surface of the fluid if bubbles are visible.



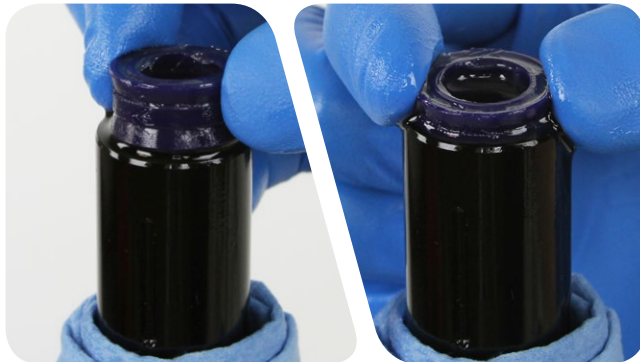
- 5** Fill the groove on **both** sides of a new IFP with SRAM® Butter grease.  
Coat the outer and inner surfaces of the IFP with SRAM Butter grease.

#### NOTICE

The groove on **both** sides of the IFP must be completely filled with grease to prevent air pockets from developing under the IFP. Air pockets will negatively affect seatpost function.



- 6** Insert the IFP into the upper post and onto the IFP tube.  
*The IFP is symmetrical. Orientation of the IFP is not critical to installation.*



- 7** With one hand, hold the Reverb Post Bleed tool in place. With the other hand slowly press the IFP into the upper post with your thumb and finger; press only the edges of the IFP.

When the IFP is inside the upper post, level with the top of the tube, use both thumbs to press the opposing edges of the IFP down into the upper post. Stop when it is level with the top of the IFP tube.

#### NOTICE

Do not cover the center of the IFP and IFP tube during installation. Fluid will be forced through the IFP tube and will push the Reverb Post Bleed tool out of the upper post head, causing fluid to leak. If this occurs the IFP tube and IFP must be [removed](#) and [reinstalled](#).

#### ⚠ WARNING - EYE HAZARD

When the IFP is pressed into the upper post fluid will be displaced and may be ejected outward. Keep your eyes and face away from the end of the upper post during installation. Wear safety glasses.



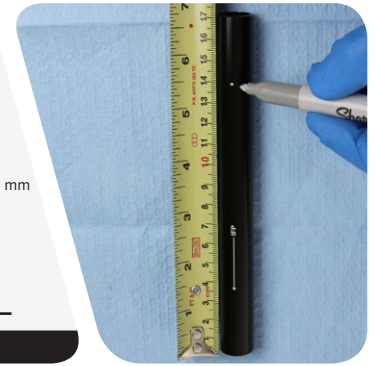
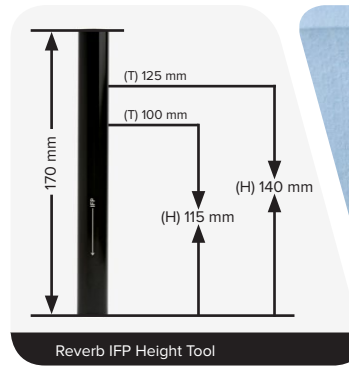


## 8 Set the internal floating piston (IFP) height.

Use the chart below to determine the IFP height for your Reverb™ B1 seatpost and mark the IFP Height tool with the appropriate measurement.

(T) Reverb B1 Travel (mm)	Lower Post Length (mm)	(H) IFP Height (mm)
100	181	115
125	206	140

IFP height is critical for proper function. The graphics and measurements on your Reverb IFP Height tool may vary. Always measure from the bottom of the tool and mark the tool with the measurement for your Reverb B1 seatpost.



## 9 Hold a rag over the end of the IFP height tool.

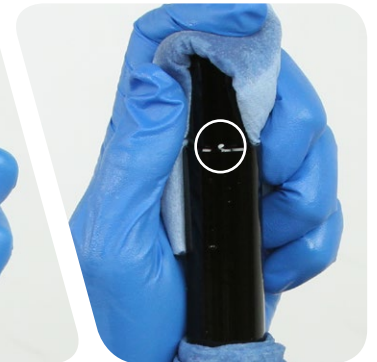
Hold the Reverb Post Bleed tool securely in the post head to prevent it from dislodging. With your other hand, push the IFP into the upper post with the IFP height tool, slowly and carefully, to the correct height. Stop when the measurement mark on the IFP tool is level with the top of the upper post.

### NOTICE

Do not push the IFP beyond the appropriate IFP height mark on the IFP tool. If the IFP is pushed in too far, the IFP tube and IFP must be [removed](#) and [reinstalled](#).

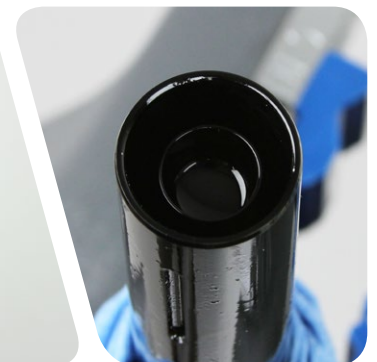
### ⚠ WARNING - EYE HAZARD

When the IFP is pressed into the upper post fluid will be displaced through the IFP Height tool and may be forced outward. Cover the top of the IFP Height tool with a rag to contain the fluid. Keep your eyes and face away from the end of the IFP tool during installation. Wear safety glasses.

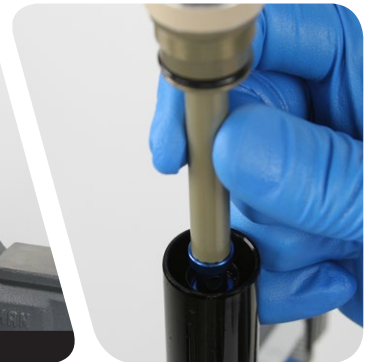
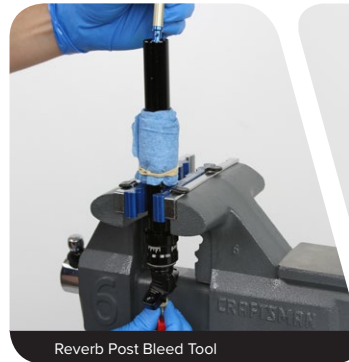


## 10 Slowly remove the IFP Height tool from the upper post.

Fluid must be level with the port holes in the top of the IFP tube.



- 1 Hold the Reverb™ Post Bleed tool securely in the post head to prevent it from dislodging. With your other hand insert the inner shaft piston into the IFP tube and stop when you feel hydraulic resistance. Do not push the inner shaft piston into the IFP tube any further.



- 2 Remove the seatpost from the vise. Hold the piston shaft securely and pour the excess hydraulic fluid out of the upper post into an oil pan.

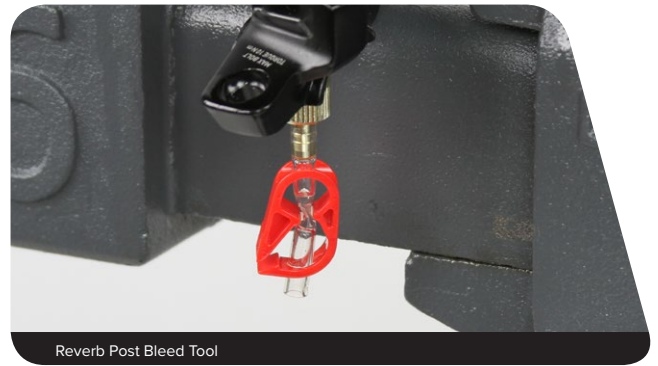


- 3 Clamp the seatpost back into the vise.  
Apply SRAM® Butter grease onto the seal head o-ring.



- 4** Open the bleed tool hose clamp. Hydraulic fluid should not drain out of the hose.

If hydraulic fluid drains from the hose, air has entered the IFP tube during IFP installation, and the IFP [removal](#) and [installation](#) processes must be repeated.



- 5** Hold the shaft in place and carefully slide the seal head down the shaft into the upper post. Thread the seal head into the upper post by hand until it stops.

#### NOTICE

Do not push the inner shaft into the upper post. Fluid will be forced out of the IFP tube through Reverb™ bleed tool hose. If fluid drains out of the hose, the IFP [removal](#) and [installation](#) processes must be repeated.

*A small amount of fluid may drip from the bleed tool as the seal head is threaded into the upper post. This is normal.*



- 6** Tighten the seal head to 28 N•m (250 in-lb).  
**Install the crowfoot onto the torque wrench at a 90° angle to the handle to ensure an accurate torque reading.**

Use a rag to wipe away any excess fluid.

#### NOTICE

Do not scratch the inner shaft with the wrench as this is a critical sealing surface.





7

Pull the inner shaft up.

If any gap or movement is felt, fluid volume is insufficient and the IFP [removal](#) and [installation](#) processes must be repeated.

If no gap is felt, remove the seatpost from the vise.



8

Clamp the seatpost back into the vise.



9

Remove the Reverb™ Post Bleed tool.



- 10** Excess fluid must be removed from the upper post.  
Install the Reverb™ Oil Height tool hose fitting onto a RockShox® Bleed syringe.

Insert the Reverb Oil Height tool into the post head and draw the excess fluid from the upper post with the syringe.

Discard the excess fluid into an oil pan. Repeat this step one additional time to remove any remaining excess fluid.

### NOTICE

Only use the syringe included with the RockShox Bleed kit.

**Do not use a syringe that has been in contact with DOT brake fluid. DOT brake fluid will permanently damage the seals and cause the seatpost to malfunction.**

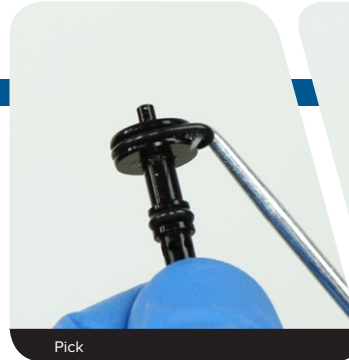


- 1 Remove the poppet valve o-rings.  
Install new o-rings and apply SRAM® Butter grease.

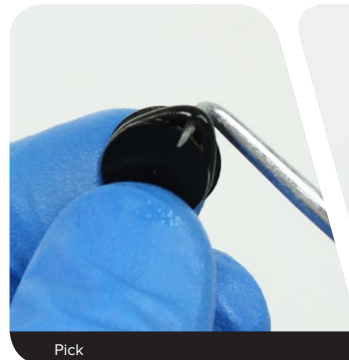
**NOTICE**

Do not apply grease to the area between the upper poppet piston and the o-ring just below it. Grease under the large poppet piston o-ring will limit function when the remote actuator is pressed.

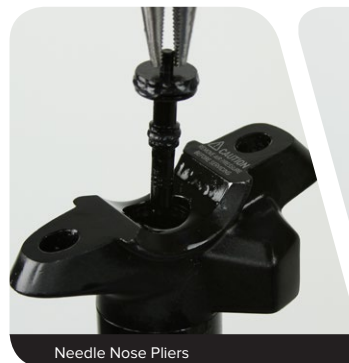
Use a clean rag to wipe away any excess grease from under the large poppet piston.



- 2 Remove the poppet valve cover o-ring.  
Install a new o-ring and apply SRAM® Butter grease.



- 3 Insert the poppet valve, narrow end first, into the post head and press it down until it snaps into place.



- 4 Loosely thread the RockShox® Bleed syringe fitting into the poppet cover. Insert the poppet cover into the post head and push it into the post head until it snaps firmly into place.

#### NOTICE

Do not thread the syringe fitting into the poppet cover tightly. It will be difficult to unthread from the poppet cover.

Unthread the syringe fitting from the poppet cover.



RockShox Bleed Syringe



- 5 Install the poppet valve cover retaining ring into the post head groove.

#### NOTICE

Confirm the retaining ring is properly seated by using the retaining ring pliers to rotate the ring back and forth inside the groove.

*Retaining rings have a sharp-edged side and a rounded-edge side. Installing the retaining ring with the sharp-edged side facing the tool will allow for easier installation and removal.*

Remove the seatpost from the vise.



Internal Retaining Ring Pliers

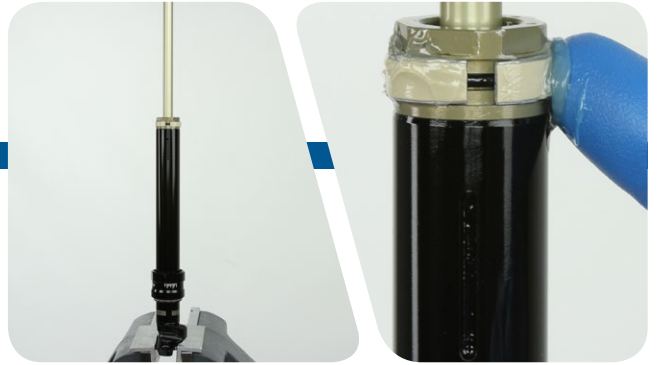


- 1** Clamp the upper post head into the vise with flat soft jaws.

Rotate the bushing and align the split seam toward the back of the seatpost, inline with the rear facing brass key slot. Apply a liberal amount of SRAM® Butter grease to the seal head bushing.

#### NOTICE

Clamp only the flat surfaces of the post head. Do not clamp over the bleed port or on the hose barb port.



- 2** Apply a liberal amount of SRAM Butter grease to the inside of the lower post tube.



- 3** Install the lower post onto the upper post.  
Squeeze the inner seal head bushing and slide the lower post down over the seal head bushing.



**NOTICE**

Side-to-side movement between the inner and outer posts 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.

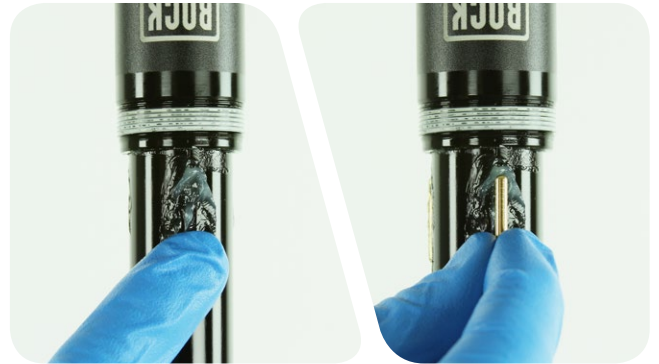
New brass keys must be of the same size and have the same number of [etched lines](#) as the original brass keys for proper function.

Refer to the RockShox® Spare Parts Catalog at [www.sram.com/service](http://www.sram.com/service) for a list of brass key kits available.



- 1 Apply a liberal amount of SRAM® Butter grease onto each key slot and onto the upper post.

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



- 2 Apply a liberal amount of SRAM Butter grease onto the brass keys and upper post.





- 3** 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.



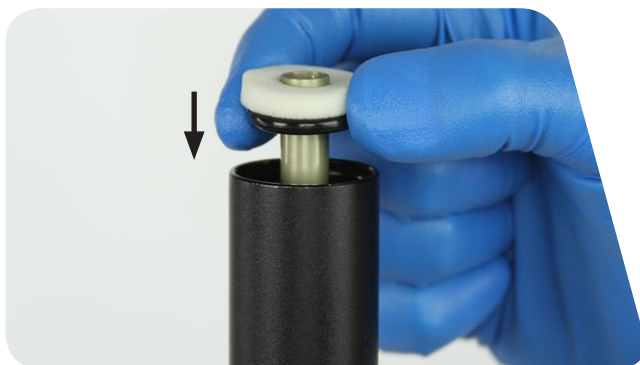
Hold each brass key in place and slide the lower post down until it engages the keys. Continue to slide the lower post down over the brass keys.

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

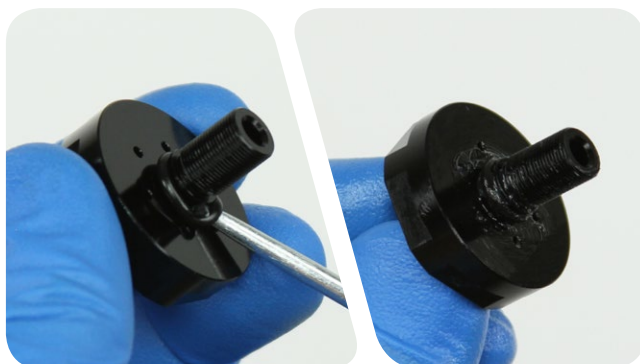


- 4** **50 Hour Service** Install the original bottomout o-ring and foam ring, in that order, onto the inner shaft.

**200 and 400 Hour Service** Install a **new** bottomout o-ring and foam ring, in that order, onto the inner shaft.

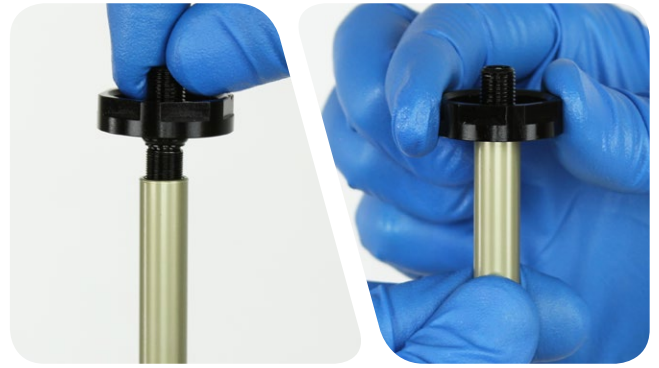


- 5** Remove the o-ring from the air valve base plate.  
Install a new o-ring and apply SRAM® Butter grease.



- 6** Slide the lower post down and install the air valve base plate onto the inner shaft, hand tight.

Remove the seatpost from the vise.



- 7** Spray the inner shaft and RockShox® vise blocks with isopropyl alcohol and wipe them with a clean rag. The clamping surfaces must be free of oil and grease.

Position the vise blocks onto the shaft in the 10 mm slot, and clamp the vise blocks into the vise tight enough to prevent the shaft from spinning.

#### NOTICE

Do not scratch the inner shaft when clamping it into the RockShox vise blocks. Surface scratches can cause leaks and reduce performance of the seatpost.



- 8** Tighten the air valve base plate to 3.9-5.1 N•m (35-45 in-lb).

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



- 9** Remove the seatpost and vise blocks from the vise.

Slide the lower post to full extension.



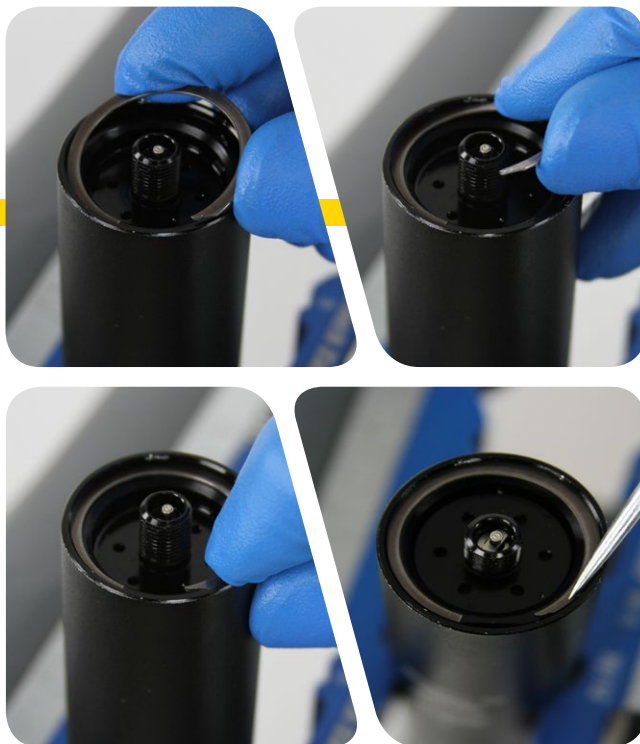


- 10** Clamp the lower post into the vise and Park Tool® AV-5 vise inserts. Install the retaining ring into the lower post retaining ring groove. Insert the flat end into the groove first and use your finger to guide the retaining ring around lower post until it snaps completely into the groove.

Remove the seatpost from the vise.

#### **⚠ CAUTION**

Verify the retaining ring is securely in place with a pick before continuing. Failure to properly secure the retaining ring will result in collapse of the upper post when weight is applied.



- 11** Clamp the lower post into the vise with the post head oriented upward. Tighten the top cap to 27-29 N·m (238-256 in-lb).

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

#### **NOTICE**

Do not scratch the upper post with the wrench as this is a critical sealing surface. Scratches can cause leaks.



- 1 Pressurize the seatpost to 250 psi (17.2 bar).  
Reinstall the air cap and tighten until hand tight.



## Remote Lever

### Hose Barb Replacement (optional)

If the remote hose barb is damaged from impact, it should be replaced.

#### NOTICE

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

- 1 Remove the remote lever assembly from the bicycle handlebar.



- 2 Rotate the Reverb remote lever counter-clockwise and unthread the hose from the remote hose barb.



- 3 Remove the hose barb from the remote lever.  
Install a **new** hose barb into the lever and tighten to 2.9-3.5 N·m (25-30 in-lb).

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



- 4 Thread the remote lever hose barb into the hydraulic hose. Hold the end of the hose at the hose barb and rotate the remote lever clockwise while pushing the remote lever barb into the hose. Stop when the hose bottoms-out against the flat hose barb inner surface.

#### 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.

*The Reverb remote hydraulic system must be bled after the hose is installed onto the remote lever and into the seatpost. Refer to the 'Reverb and Reverb Stealth Hydraulic Hose Replacement and Remote System Bleed' Service Manual, available at [www.sram.com/service](http://www.sram.com/service), for hydraulic remote system bleed and seatpost installation procedures.*



- 1 Secure the bicycle in an upright position.  
Apply a light amount of friction paste to the outside of the seatpost.  
Install the seatpost and tighten the seatpost collar.

#### **WARNING**

Failure to use friction paste could allow your seatpost to slip during use, which could lead to serious injury and/or death.



- 1** Insert the hose barb and hose through the Reverb™ hose guide.



- 2** Wrap a rag around the upper post.  
Thread the hose barb into the hose port and tighten to 3.4-4.5 N·m (30-40 in-lb).  
Use a rag to wipe away any excess fluid.

### ⚠ WARNING

Do not allow Reverb hydraulic fluid to come into contact with brake levers and calipers, brake pads, disc brake rotors, or braking surfaces.

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



- 3** Secure the hose to the frame.



- 4** Install the remote in the desired position and tighten the clamp bolt to 2.8-3.4 N·m (25-30 in-lb).



This concludes service for the RockShox® Reverb B1 adjustable height seatpost.

The Reverb hydraulic remote system must be bled before use. Refer to the 'Reverb Stealth and Reverb Hydraulic Hose Replacement and Remote System Bleed' Service Manual, available at [www.sram.com/service](http://www.sram.com/service), for bleed procedures.

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