



RECON

GOLD

2011 Technical Manual



SRAM LLC WARRANTY

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.

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.

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.

· This warranty does not apply to products that have been incorrectly installed and/or adjusted according to the respective SRAM technical installation manual. The SRAM installation manuals can be found online at www.sram.com, www.rockshox.com, www.avidbike.com, www.truvativ.com, or www.zip.com.

· This warranty does not apply when the product has been modified.

· 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 damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturer's 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 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/Bushings/Air sealing o-rings/Glide rings/Rubber moving parts/Foam rings/Rear shock mounting hardware and main seals/Stripped threads and bolts (aluminum, titanium, magnesium or steel)/Upper tubes (stanchions)/Brake sleeves/Brake pads/Chains/Sprockets/Cassettes/Shifter and brake cables (inner and outer)/Handlebar grips/Shifter grips/Jockey wheels/Disc brake rotors/Wheel braking surfaces/Bottom out pads/Bearings/Bearing Races/Pawls/Transmission gears/Spokes/Free hubs/Aero bar pads/Corrosion/Tools

· 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 authorized by SRAM for use with SRAM components.

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

ROCKSHOX SUSPENSION 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 special tools and fluids used for service.

Used suspension fluid should be recycled or disposed of in accordance to local and federal regulations.

NEVER pour suspension fluid down a sewage or drainage system or into the ground or a body of water.

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For exploded diagram and part number information, please refer to the Spare Parts Catalog available on our web site at www.sram.com.

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. For the latest technical information, please visit our website at www.sram.com.

Your product's appearance may differ from the pictures/diagrams contained in this catalog.

Product names used in this document may be trademarks or registered trademarks of others.

TABLE OF CONTENTS

SERVICE INTERVALS	5
TOOLS NEEDED FOR SERVICE	6
PARTS NEEDED FOR SERVICE	6
TECHNOLOGY AND OIL VOLUMES	7
TORQUE TIGHTENING VALUES	7
LOWER LEG BUSHING INSPECTION	8
LOWER LEG REMOVAL	9
LOWER LEG SEAL SERVICE	11
COIL SPRING SERVICE	13
(RECON SILVER - RECON GOLD - SEKTOR - TORA TK)	
SOLO AIR SPRING SERVICE	14
(RECON GOLD R, RL, TK)	
REBOUND DAMPER SERVICE	17
(LYRIK R - RECON GOLD R - SEKTOR R)	
TURNKEY DAMPER SERVICE	19
(REBA TK - RECON GOLD TK - SEKTOR TK)	
MOTION CONTROL/BLACKBOX MOTION CONTROL DAMPER SERVICE	23
(ARGYLE RCT - REBA RL, RLT ,RLT TI - RECON GOLD RL - REVELATION RL, RLT, RLT TI, WC - SEKTOR RL - SID RL, RLT, RLT TI, WC)	
LOWER LEG INSTALLATION	28
REMOTE SERVICE	30
(PUSHLOC - POPLOC ADJUST - POPLOC)	



SAFETY FIRST!

At SRAM, we care about YOU. Please, always wear your safety glasses and protective gloves when servicing your RockShox suspension.
Protect yourself! Wear your safety gear!

SERVICE INTERVALS

The following chart is a summary of the maintenance/service intervals for RockShox forks. Following this schedule is important to ensure the consistent performance and longevity of your fork. Some of the information listed may not be applicable to your fork.

Maintenance	Interval (Hours)
Inspect carbon crown-steerer	Every ride
Clean dirt and debris from upper tubes	Every ride
Check air pressure (air forks only)	Every ride
Inspect upper tubes for scratches	Every ride
Lubricate dust seals and upper tubes	Every ride
Change Speed Lube oil bath	25
Check front suspension fasteners for proper torque	25
Clean and lubricate remote lockout cable and housing	25
Remove lowers, clean/inspect bushings and change oil bath (if applicable)	50
Clean and lubricate air spring assembly	50
Change oil in damping system (including hydraulic lockout)	100
Clean and lubricate coil spring assembly (coil forks only)	100

TOOLS NEEDED FOR SERVICE

The following chart is a list of the model year 2011 tools needed for service on your Recon Gold suspension fork. While this chart is intended to be comprehensive, it is still only a guide. The tools required for each step of service are detailed in the text of the service section.

Tools
Safety/Starting Equipment
Safety Glasses
Nitrile Gloves
Apron
Clean Rags (Lint Free)
Oil Measuring Device
Oil Pan
Clean Work Area
General Tools
Hex Key Set (Sizes 1.5 mm - 5 mm)
Plastic Mallet
Socket Wrench
24 mm Socket
Torque Wrench
Snap Ring Pliers (External)
Snap Ring Pliers (Internal)
Long Dowel Rod
Sharp Pick
Oil/Liquids
Suspension Oil (RockShox 5wt)
Grease (Suspension Oil Soluble)
Isopropyl Alcohol

PARTS NEEDED FOR SERVICE

Prior to servicing your fork, it is important that you have all of the necessary replacement parts. For exploded diagram and part number information, please refer to the Spare Parts Catalog available on our web site at www.sram.com. For order information, please contact your local SRAM distributor or dealer.

TECHNOLOGY AND OIL VOLUMES

The following chart is a complete list of the 2011 RockShox Recon Gold line-up. It details the model, corresponding damper and spring technology, along with the oil volume and RockShox oil weight required for each upper tube and lower leg.

		Damper Technology (Drive Side)	Volume (ml)	Oil wt	Volume (ml)	Oil wt
			Upper Tube		Lower Leg	
Recon Gold	R	Rebound Only	120	5	6	15
	TK	Turnkey	133	5	6	15
	RL	Motion Control	133	5	6	15

	Spring Technology (Non-Drive Side)	Volume (ml)	Oil wt	Volume (ml)	Oil wt
		Upper Tube		Lower Leg	
	Coil	-	-	10	15
	Solo Air	3	15	6	
	Coil	-	-	10	
	Solo Air	3	15	6	
	Coil	-	-	10	
	Solo Air	3	15	6	

TORQUE TIGHTENING VALUES

The following chart is a summary of the primary torque tightening values for Recon Gold forks. The torque tightening values for fasteners that require a specific torque are detailed in the text of each service section.

Fastener	Torque Value
Top Cap	7.3 N·m (65 in-lb)
Bottom Bolt/Shaft Nut	6.8 N·m (60 in-lb)
Brake Caliper Mounting Bolts (Cantilever/Linear -Pull)	5-7 N·m (43-61 in-lb)
Brake Caliper Mounting Bolts (Post Mount)	10.2 N·m (90 in-lb)

LOWER LEG BUSHING INSPECTION

INTRODUCTION

Suspension fork bushings are considered "wear and tear" parts. The rate and amount of wear will depend on the frequency of fork service, frequency of riding, riding terrain, rider body weight, and type of fork. If your bushings are worn, you will need to replace your lower leg assembly. The following chapter covers how to check for bushing wear.

CHECK FOR BUSHING WEAR

Method 1: Check for bushing wear while the fork is installed on the bike

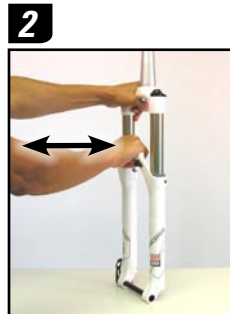
1. Compress the fork 5 times to circulate lower leg lubrication.
2. Wrap your fingers around the lower leg just below the dust seal. Hold the front brake lever tight while rocking the bike back and forth (you may need someone to do this for you while you hold the lower leg). If you hear or feel any "knocking" at the lower leg, the bushings are worn.



OR

Method 2: Check for bushing wear while the fork is removed from the bike

1. Compress the fork 5 times to circulate lower leg lubrication.
2. Brace the fork on a table or the floor to hold it steady. Hold the fork crown tight in one hand and the brake arch in the other hand. Try to move the brake arch back and forth. If you hear or feel any "knocking", the bushings are worn.



If you have determined that the bushings are worn, you will need to replace the lower leg assembly. Reference the 2011 RockShox Spare Parts Catalog for information on the correct lower leg and corresponding part number for your fork.

LOWER LEG REMOVAL

INTRODUCTION

Removing the lower legs is the first step in servicing your fork. Once you have removed your fork lower legs, you'll be ready to move onto the next section.

LOWER LEG REMOVAL

1. **Coil forks:** Proceed to Step 4.
2. **Air forks:** Remove the positive air chamber valve cap from the top cap located on the non-drive side fork leg. If the fork also has a negative air chamber, remove the valve cap located at the bottom of the non-drive side air chamber.
The positive air chamber valve cap for 2-Step and Dual Position Air forks is located at the bottom of the non-drive side fork leg.

3. Depress the Schrader valve and release all of the air pressure from the air chamber.
If the fork has a negative air chamber, start with the negative air chamber first, then proceed to the positive air chamber.



CAUTION

Verify all pressure is removed from the fork before proceeding. Failure to do so can result in injury and/or damage to the fork.

4. Remove the external rebound adjuster knob (if applicable) by pulling it from the shaft bolt at the bottom of the right fork leg.
5. Use a 5 mm hex wrench to loosen both shaft bolts 3 to 4 turns.

Dual Air, Air U-Turn, 2-Step, and Dual Position Air equipped forks: Use a 10 mm socket (or open end) wrench to loosen and unthread the shaft nut at the bottom of the left fork leg until it is flush with the threaded shaft end.

For hollow bottom fork legs you will need to use a deep 10 mm socket to loosen and unthread the air shaft nut.

6. Place an oil pan beneath the fork to catch any draining oil. Use a plastic mallet to firmly strike each shaft bolt/nut free from its press-fit to the lower leg and use your fingers to remove the shaft bolts/nut completely.
For hollow bottom fork legs tap the 5 mm hex wrench and 10 mm deep socket while engaged in the bolts to free them from the press-fit.

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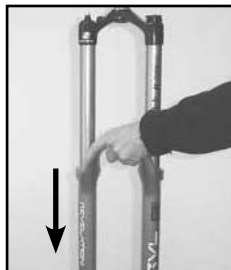
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LOWER LEG REMOVAL (CONTINUED)

7. Firmly pull the lower leg downward until oil begins to drain.
If the upper tubes do not slide out of the lower leg or if oil doesn't drain from either side, the press fit of the shaft(s) to the lower leg may still be engaged. Re-install the shaft bolt(s) 2 to 3 turns (or re-install the shaft nut flush with the threaded shaft end) and repeat Step 6. Do not hit the brake arch with any tool when removing the lower leg as this could damage the fork.
8. Remove the lower leg from the fork by pulling it downward, holding onto both legs or the brake arch.
9. Spray isopropyl alcohol on and into the lower leg assembly. Wipe the lower legs clean, then wrap a clean rag around a dowel and clean the inside of each lower leg.

7



8



LOWER LEG SEAL SERVICE

INTRODUCTION

Suspension fork seals are considered "wear and tear" parts and require regular maintenance, depending on the frequency of riding, riding terrain, and type of fork. The more you ride, the more frequently your seals need to be replaced. The following chapter covers wiper and oil seal removal and installation. At this point you should already have the lower legs removed from your fork. If not, you will need to return to the Lower Leg Removal section of this manual and follow the instructions for removing your fork lower legs.

LOWER LEG SEAL REMOVAL

1. Select one side of the lower leg to work on first.

Oil seal: If your fork has a black oil seal between the dust wiper and the upper bushing, position the tip of a downhill tire lever or large, flat head screwdriver between the lower lip of the black oil seal and the upper bushing.

No oil seal: If your fork does not have a black oil seal between the dust wiper and the upper bushing, place the tip of the tool underneath the lower lip of the wiper seal.

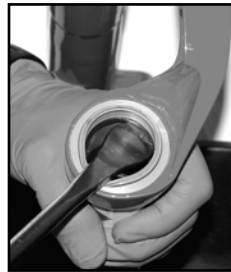
If you use a flat head screwdriver, make sure it has a round shaft. A screwdriver with a square shaft will damage the fork leg.

2. Stabilize the lower leg upright on a bench top or on the floor. Hold the lower leg firmly and use downward force on the tool handle to leverage the seal(s) out.

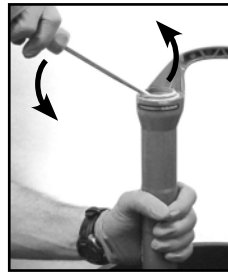
Keep the lower leg assembly stable. Do not allow the lower legs to twist in opposite directions, compress toward each other or be pulled apart. This will damage the lower leg assembly.

3. If your fork has an oil foam ring, remove it with your fingers.
4. Repeat steps 1 - 3 for the other side of the lower leg.
5. Spray isopropyl alcohol on and into the lower leg. Wipe the lower legs clean, then wrap a clean, lint free rag around a dowel and clean the inside of each lower leg.

1



2



3



LOWER LEG SEAL INSTALLATION

Foam ring installation

1. If your fork has foam rings, soak the new foam rings in 15wt RockShox suspension oil.
2. Insert a new oil-saturated foam ring into each side of the lower leg.

1



2

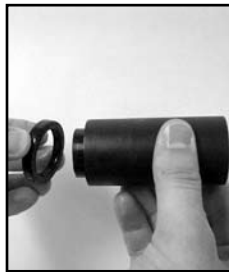


Oil seal installation

1. Position the oil seal, with the grooved side visible, onto the stepped side of the seal installation tool.
2. Hold one of the lower legs firmly and use the seal installation tool to push the oil seal evenly and completely into that leg. Repeat for the other leg.

Be sure to stabilize the lower leg in order to prevent it from slipping while installing the seal.

1



2

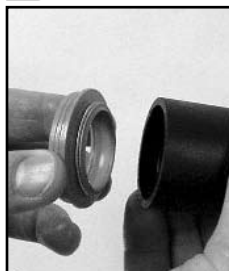


Dust wiper installation

1. Position the dust wiper into the recessed side of the seal installation tool, so that the grooved side of the seal is visible.
2. Hold one of the lower legs firmly and use the seal installation tool to push the dust wiper evenly and completely into that leg. There should be no visible gap between the dust wiper and the lower leg. Repeat for the other leg.

Be sure to stabilize the lower leg in order to prevent it from slipping while installing the seal.

1



2



COIL SPRING SERVICE

(RECON SILVER - RECON GOLD - SEKTOR - TORA TK)

INTRODUCTION

At this point you should already have the lower leg removed from your fork. If not, you will need to return to the Lower Leg Removal section of this manual and follow the instructions for removing your fork lower legs.

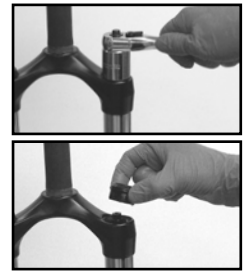
COIL SPRING REMOVAL INSTRUCTIONS

1. Use a 2.5 mm hex wrench to remove the preload adjuster knob screw, then remove the adjuster knob. Use a magnet to remove the detent balls and springs from the top cap (**Recon Silver, Recon Gold only**).
2. Unthread and remove the spring top cap with a 24 mm socket wrench.
Press down firmly when loosening the top cap.
3. Push the spring shaft upward, from the bottom of the upper tube, then remove the coil spring and spring shaft from the upper tube. Once removed, clean the upper tube threads with a rag.
4. Spray isopropyl alcohol on the spring, spring shaft assembly and the inside and outside of the upper tube and wipe with a clean rag. Wrap a clean rag around a long dowel and insert it into the upper tube to clean inside the upper tube.
If the coil spring isolator is not centered on the coil spring, wind the isolator along the coils to the center of the spring and use a heat gun to shrink/tighten it.
5. Use a pick to remove the o-ring from the preload adjuster on top of the spring. Apply grease to the new o-ring and install it.

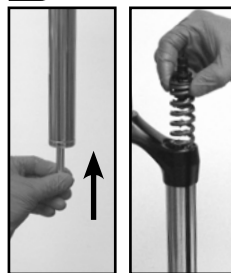
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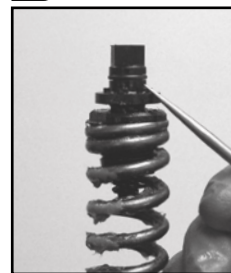
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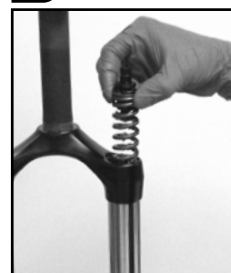
COIL SPRING INSTALLATION INSTRUCTIONS

6. Apply fresh grease liberally to the spring.
7. Insert the spring shaft and spring assembly back into the upper tube.
8. Clean the top cap, then apply a small amount of grease to the top cap threads. Insert and hand thread the top cap into the upper tube. Use a 24 mm socket wrench to tighten it to 7.3 N·m (65 in-lb).
9. Re-install the detent springs and balls into the top cap (**Recon Silver, Recon Gold only**). Re-install the preload adjuster knob and knob screw. Tighten the preload adjuster knob screw with a 2.5 mm hex wrench to 1.4 N·m (12 in-lb).

6



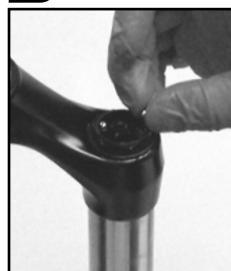
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SOLO AIR SPRING SERVICE

(RECON GOLD R, RL, TK)

INTRODUCTION

At this point you should already have the lower legs removed from your fork. If not, you will need to return to the Lower Leg Removal section of this manual and follow the instructions for removing your fork lower legs.

SOLO AIR SPRING REMOVAL/SERVICE INSTRUCTIONS



CAUTION

Verify all pressure is removed from the fork before proceeding. Depress the Schrader valve again to remove any remaining air pressure. Failure to do so can result in injury and/or damage to the fork.

1. Unthread and remove the air spring top cap with a 24 mm socket wrench. Once removed, clean the upper tube threads with a rag. Remove the fork from the stand and pour any oil into an oil pan.

2. Clamp the fork back into the bicycle stand. Use your finger to press the air seal head into the upper tube. You will feel it break free and slide into the tube about 3 mm.

3. Use large internal snap ring pliers to remove the snap ring. Guide the snap ring off of the spring shaft by hand.

Do not scratch the air spring shaft surface while removing the snap ring. Scratches on the air spring shaft will allow air to bypass the seal head into the lower legs, resulting in reduced spring performance.

4. Pull down on the air shaft firmly to remove the air spring assembly from the upper tube. Clean and inspect the assembly for damage.

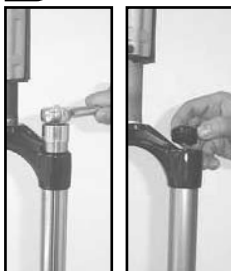
5. Spray isopropyl alcohol on the inside and outside of the upper tube. Wipe the outside of the upper tube with a clean rag. Wrap a clean rag around a long dowel and insert it into the upper tube to clean inside the upper tube.

6. Use small external snap ring pliers to remove the air piston snap ring. Remove the air piston wavy spring washer and air piston from the air shaft.

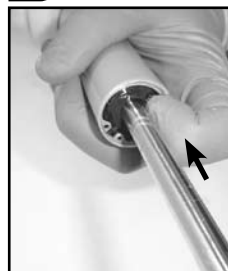
Expand the snap ring just enough to disengage it from the air shaft. Over-extending the snap ring can permanently damage it and cause air spring assembly failure.

7. Use a pick to remove the air piston outer o-ring. Apply grease to the new o-ring and install it.

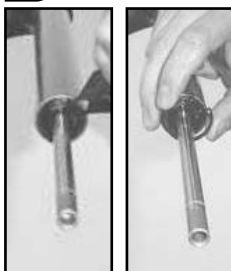
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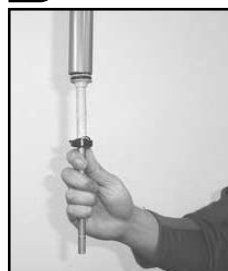
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SOLO AIR SPRING REMOVAL/SERVICE INSTRUCTIONS (CONTINUED)

8. Use a pick to remove the face seal o-ring from the underside of the air piston. Use isopropyl alcohol and a clean rag to clean the o-ring groove. Install the new, dry o-ring into the groove.
Pierce into the face seal o-ring with the pick and pull to remove it. Do not scoop or dig the o-ring out as this may damage the piston sealing surface.
9. Install the air piston and spring wavy washer onto the air shaft and use small external snap ring pliers to secure the air piston snap ring in the snap ring groove. Check the snap ring fit to make sure it secures the air piston and wavy washer to the air shaft head. The air piston should compress upward slightly with spring resistance from wavy spring washer and snap ring.
Expand the snap ring just enough to re-install it onto the air shaft. Over-extending the snap ring can permanently damage it and cause air spring assembly failure.
10. Slide the base plate, wavy washer, aluminum support washer, negative piston top out bumper, negative piston, top out bumper, and kick plate from the air shaft. Spray the air shaft with isopropyl alcohol and wipe it clean with a rag.
11. Remove the top out bumper from the negative piston. Use a pick to remove the inner and outer negative piston o-rings. Apply grease to the new o-rings and install them.
When using a pick to remove o-rings, do not scratch the negative piston. Scratches may cause air to leak.
12. Insert the top-out bumper and kick plate back onto the negative piston. Re-install the negative piston/sleeve assembly onto the air shaft, with the kick plate oriented toward the air piston.
13. Apply grease to the air assembly outer o-rings. Insert the air assembly into the bottom of the upper tube by gently rocking the air shaft side to side while firmly pushing it into the upper tube. Check to make sure that the aluminum support washer rests evenly against the step inside the bottom of the upper tube, followed by the wavy washer.

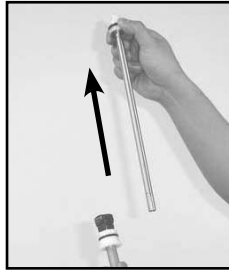
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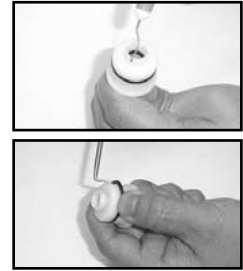
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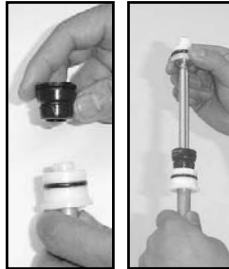
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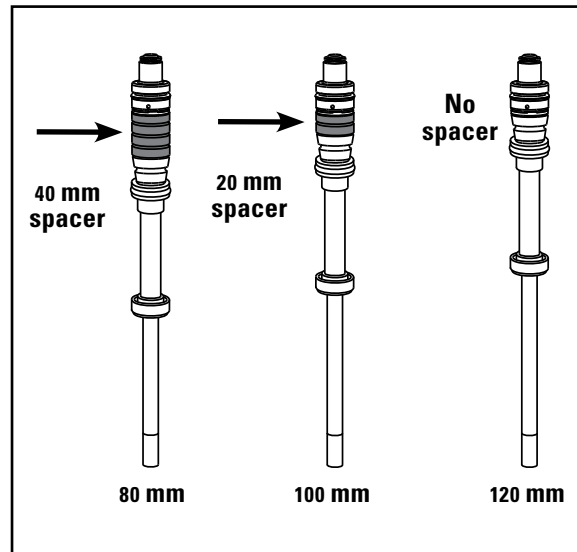


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OPTIONAL - ALL TRAVEL CONFIGURATION

All Travel spacers are located just above the top out bumper. If you want to change the travel of your fork, install the travel spacer to decrease travel, or remove the spacer to increase travel.

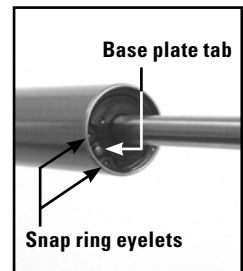


SOLO AIR SPRING INSTALLATION INSTRUCTIONS

14. Use your thumb to press the base plate into the upper tube until the snap ring groove is visible. Use large snap ring pliers to secure the snap ring in its groove. Position the snap ring eyelets on either side of the base plate tab.

Make sure the snap ring is securely fastened in the snap ring groove. You can check this by using the snap ring pliers to rotate the snap ring back and forth a couple of times, then firmly pulling down on the air shaft.

14



Snap rings have a sharper-edged side and a rounder-edged side. Installing snap rings with the sharper-edged side facing the tool will allow for easier installation and removal.

15. Position the fork at a 45 degree angle. Pour 3 mL of 15wt RockShox suspension oil into the top of the upper tube through the crown.
16. Use isopropyl alcohol and a clean rag to clean the top cap, then apply a small amount of grease to the top cap threads and o-ring. Insert the top cap into the upper tube/crown and hand thread it into the upper tube. Be careful not to damage the top cap o-ring upon installation.
17. Use a 24 mm socket wrench to tighten the top cap to 7.3 N·m (65 in·lb).

15



16



17



REBOUND DAMPER SERVICE

(LYRIK R - RECON GOLD R - SEKTOR R)

INTRODUCTION

At this point you should already have the lower legs removed from your fork. If not, you will need to return to the Lower Leg Removal section of this manual and follow the instructions for removing your fork lower legs.

DAMPER SERVICE INSTRUCTIONS

1. Use a 24 mm socket wrench to unthread the top cap. Once removed, clean the upper tube threads with a rag.
2. Remove the fork from the bicycle stand and pour the oil into an oil pan.
3. Push the rebound shaft into the seal head, leaving just enough shaft exposed to hold onto with your fingers. Use large internal snap ring pliers to remove the rebound damper seal head retaining ring (located inside the bottom of the drive side upper tube). Pull down and remove the rebound damper and seal head assembly from the upper tube.
4. Slide the seal head off the damper shaft and use a pick to remove the inner and outer seal head o-rings. Apply a few drops of RockShox suspension oil to new o-rings and install them.
If using a pick to remove o-rings, do not scratch the o-ring glands. Scratches may cause oil to leak.
5. Spray isopropyl alcohol on the rebound damper shaft and wipe it with a clean rag.
6. Replace the rebound damper piston glide ring. Position the upper tube base ring on top of the seal head step (**Lyrik, Recon Gold only**) and slide the rebound seal head assembly onto the rebound damper shaft.
7. Spray isopropyl alcohol into the upper tube. Wrap a clean rag around a dowel and clean the inside of the upper tube.
8. Insert the rebound damper piston into the bottom of the upper tube at an angle, with the side of the glide ring opposite the split entering the upper tube first. Continue to angle and rotate until the glide ring is in the upper tube.
9. Position the upper tube base ring and rebound seal head into the upper tube. Push the seal head firmly into the bottom of the upper tube until the retaining ring groove is visible.

1



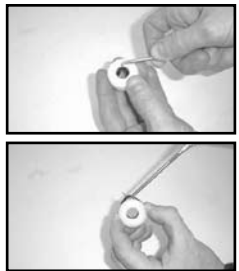
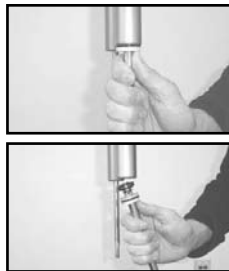
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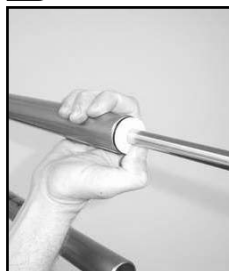
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6



9



DAMPER SERVICE INSTRUCTIONS (CONTINUED)

10. Push the rebound damper shaft into the seal head, leaving just enough to grab onto. Use large internal snap ring pliers to secure the snap ring into the snap ring groove.

Make sure the snap ring is securely fastened in the snap ring groove. You can check this by using the snap ring pliers to rotate the snap ring back and forth a couple of times, then firmly pulling down on the damper shaft.

10



11



Snap rings have a sharper-edged side and a rounder-edged side. Installing snap rings with the sharper-edged side facing towards the tool will allow for easier installation and removal.

11. Orient the fork upright in the bicycle stand. Pull the rebound damper shaft down to the fully extended position. Measure and slowly pour 5wt RockShox suspension oil into the upper tube using the volumes listed in the chart below.

Oil volume is critical. Too much oil reduces available travel, too little oil decreases damping performance.

12



Fork	Oil Volume (±3 mL)
Lyrik R	145 mL
Recon Gold R	120 mL
Sektor R	120 mL

12. Press the top cap down into the upper tube threads and hand tighten it. Use a 24 mm socket wrench to tighten the top cap to 7.3 N·m (65 in-lb).

TURNKEY DAMPER SERVICE

(REBA TK - RECON GOLD TK - SEKTOR TK)

INTRODUCTION

At this point you should already have the lower legs removed from your fork. If not, you will need to return to the Lower Leg Removal section of this manual and follow the instructions for removing your fork lower legs.

DAMPER SERVICE INSTRUCTIONS

- 1. Crown Mount (non-remote) Only:** Use a 2.5 mm hex key to remove the adjuster knob retention screw. Remove the adjuster knob.

OR

Remote Only: Use a 2 mm hex wrench to loosen the cable pinch bolt and remove the cable. Use a 2 mm hex wrench to loosen the cable stop collar clamping bolt. Remove the cable stop collar.

You do not need to remove the remote cable spool.

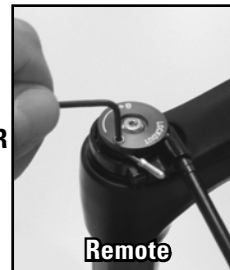
- Unthread the compression damper top cap with a 24 mm socket and socket wrench. Once removed, clean the upper tube threads with a rag.
- Remove the compression damper by pulling up and gently rocking it from side to side. Once removed, clean the upper tube threads with a rag.
- Remove the compression damper top cap o-ring and piston o-ring. Apply a few drops of RockShox suspension oil to the new o-rings and install them.
- Remove the fork from the bicycle stand and pour the oil into an oil pan.
- Clamp the fork back into the bicycle stand. Push the rebound shaft into the seal head, leaving just enough shaft exposed to hold onto with your fingers. Use large internal snap ring pliers to remove the rebound damper seal head retaining ring (located inside the bottom of the drive side upper tube). Pull down and remove the rebound damper and seal head assembly from the upper tube.

1



Crown Mount

OR



Remote

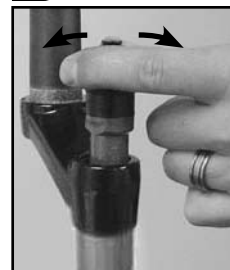


Remote

2



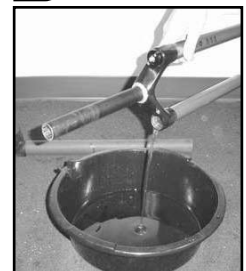
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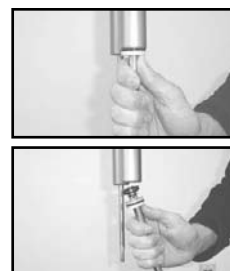
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5



6



OPTIONAL - COMPRESSION DAMPER UPGRADE: NON-REMOTE TO REMOTE ADJUST

Upgrading from a non-remote compression adjust fork to a remote compression adjust (from a crown mounted adjuster knob to a remote PopLoc or PushLoc lever adjuster), requires replacing the non-remote compression damper with a remote compression damper and cable-stop clamp. The remote return spring is integrated into the compression damper and is required for use with the PopLoc and PushLoc remote lever assembly.

DAMPER SERVICE INSTRUCTIONS (CONTINUED)

7. Reba, Recon Gold, and Sektor Solo Air only:

Slide the seal head off the damper shaft and use a pick to remove the inner and outer seal head o-rings. Apply a few drops of RockShox suspension oil to new o-rings and install them. **If using a pick to remove o-rings, do not scratch the o-ring glands. Scratches may cause oil to leak.**

OR

Sektor Coil and U-Turn only: Slide the seal head, negative spring, and travel spacer(s) (if applicable) off the damper shaft and use a pick to remove the inner and outer seal head o-rings. Apply a few drops of RockShox suspension oil to new o-rings and install them. **If using a pick to remove o-rings, do not scratch the o-ring glands. Scratches may cause oil to leak.**

8. Spray isopropyl alcohol on the rebound damper shaft and wipe it with a clean rag.
9. Replace the rebound damper piston glide ring. Position the upper tube base ring on top of the seal head step (**Recon Gold only**) and slide the rebound seal head assembly onto the rebound damper shaft.
10. Spray isopropyl alcohol into the upper tube. Wrap a clean rag around a dowel and clean the inside of the upper tube.
11. Insert the rebound damper piston into the bottom of the upper tube at an angle, with the side of the glide ring opposite the split entering the upper tube first. Continue to angle and rotate until the glide ring is in the upper tube.
12. Position the upper tube base ring and rebound seal head into the upper tube. Push the seal head firmly into the bottom of the upper tube until the retaining ring groove is visible.

7

**Reba, Recon Gold,
Sektor Solo Air**



**Sektor Coil,
U-Turn**



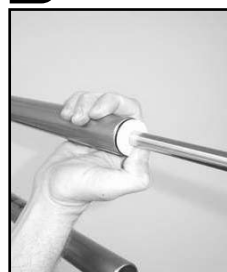
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11



12



DAMPER SERVICE INSTRUCTIONS (CONTINUED)

13. Push the rebound damper shaft into the seal head, leaving just enough to grab onto. Use large internal snap ring pliers to secure the snap ring into the snap ring groove.

Make sure the snap ring is securely fastened in the snap ring groove. You can check this by using the snap ring pliers to rotate the snap ring back and forth a couple of times, then firmly pulling down on the damper shaft.

13



Snap rings have a sharper-edged side and a rounder-edged side. Installing snap rings with the sharper-edged side facing towards the tool will allow for easier installation and removal.

14. Orient the fork upright in the bicycle stand. Pull the rebound damper shaft down to the fully extended position. Measure and slowly pour 5wt RockShox suspension oil into the upper tube using the volumes listed in the chart below.

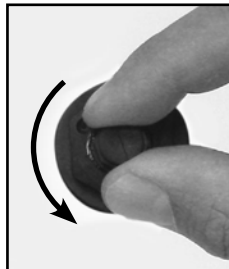
Oil volume is critical. Too much oil reduces available travel, too little oil decreases damping performance.

14



Fork	Oil Volume (±3 mL)
Reba TK	133 mL
Recon Gold TK	133 mL
Sektor TK Coil 130	120 mL
Sektor TK Coil 140/150	125 mL
Sektor TK U-Turn	125 mL
Sektor TK Solo Air	130 mL

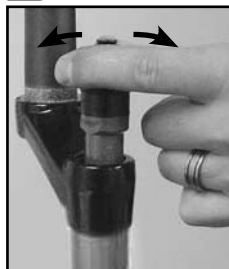
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15. **Crown Mount (non-remote) only:** Turn the hex-shaped compression adjuster fully counter-clockwise.

16. Insert the compression damper into the upper tube through the crown. Press down on and rock the damper from side to side to work it into the upper tube, being careful not to damage the o-ring on the upper tube threads. Hand tighten the damper into the upper tube.

16



17. Use a 24 mm socket wrench to tighten the compression damper to 7.3 N·m (65 in-lb).

17



- 18. Crown Mount (non-remote) only:** Place the compression adjuster knob onto the top cap with the knob dial set in the 2 o'clock position. Use a 2.5 mm hex key to install the adjuster knob retention screw and tighten it to 1.3 N·m (11 in-lb).

OR

Remote Only: Install the cable stop collar onto the top cap with the cable stop facing toward the front of the fork, perpendicular to the crown. Use a 2 mm hex to tighten the cable stop clamping bolt to 1.4 N·m (12 in-lb).

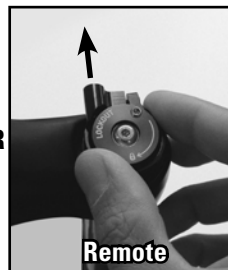
Move on to the *Remote Service* section for instructions on how to install the remote lever and cable assembly.

18

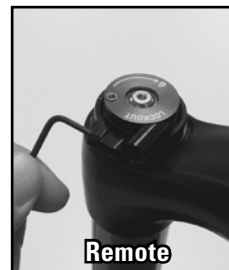


Crown-Mount

OR



Remote



Remote

MOTION CONTROL/BLACKBOX MOTION CONTROL DAMPER SERVICE

(ARGYLE RCT - REBA RL, RLT, RLT Ti - RECON GOLD RL - REVELATION RL, RLT, RLT Ti, WC - SEKTOR RL - SID RL, RLT, RLT Ti, WC)

INTRODUCTION

At this point you should already have the lower legs removed from your fork. If not, you will need to return to the Lower Leg Removal section of this manual and follow the instructions for removing your fork lower legs.

DAMPER REMOVAL/SERVICE INSTRUCTIONS

1. Compression adjuster removal

Crown mounted (non-remote) compression adjusters:

1a. Argyle only: You do not need to remove the compression knob. Move on to step 2.

1b. Reba RLT/RLT Ti, Revelation RLT/RLT Ti/WC, SID RLT/RLT Ti/WC only: Use a 1.5 mm hex wrench to loosen the Floodgate knob set screw. Remove the Floodgate knob, compression adjuster knob, and o-ring/washer seal.

1c. Reba RL, Revelation RL, SID RL only: Use small external snap ring pliers to remove the external snap ring from the compression adjuster knob. Remove the compression adjuster knob and o-ring/washer seal.

1d. Recon Gold, Sektor only: Use a 2.5 mm hex wrench to remove the adjuster knob retention screw. Remove the adjuster knob and detent leaf spring.

1b



1c



1d



Remote mounted compression adjusters:

1e. Reba RLT/RLT Ti, Revelation RLT/RLT Ti/WC, SID RLT/RLT Ti/WC only: Use a 1.5 mm hex wrench to loosen the Floodgate knob set screw. Remove the Floodgate knob and the remote spool. Use a 2 mm hex wrench to loosen the cable stop collar bolt. Remove the cable stop collar. Remove the o-ring/washer seal.

1f. Reba RL, Recon Gold, Revelation RL, Sektor, SID RL only: Use a 2 mm hex wrench to loosen the cable stop collar bolt. Remove the cable stop collar. You do not need to remove the remote spool.

1e



1f



2. Use a 24 mm socket wrench to unthread the compression damper top cap.
3. Remove the compression damper from the upper tube/crown by pulling up and rocking it from side to side.
4. Remove the compression damper top cap o-ring and piston o-ring. Apply grease to the new o-rings and install them.

If using a pick to remove o-rings, do not scratch the o-ring gland. Scratches may cause oil to leak.

5. Remove the fork from the bicycle stand and pour any remaining oil into an oil pan.
6. Push the rebound shaft into the seal head, leaving just enough shaft exposed to hold onto with your fingers. Use large internal snap ring pliers to remove the rebound damper seal head retaining ring, located inside the bottom of the drive side upper tube.
7. Pull down and remove the rebound damper and seal head assembly from the upper tube.
8. Slide the seal head off the damper shaft. Use a pick to remove the inner and outer seal head o-rings. Apply grease to the new o-rings and install them.
9. Remove and replace the rebound damper piston glide ring.
10. Spray isopropyl alcohol on the rebound damper shaft and wipe it with a clean rag.

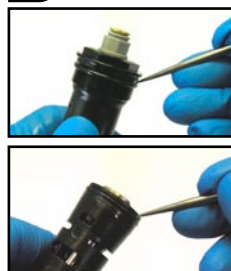
2



3



4



6



7



8



6



9



DAMPER INSTALLATION INSTRUCTIONS

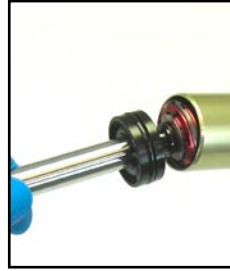
11. Slide the rebound seal head assembly onto the rebound damper shaft.
12. Spray isopropyl alcohol into the upper tube. Wrap a clean rag around a dowel and clean the inside of the upper tube.
13. Insert the rebound damper piston into the bottom of the upper tube at an angle, with the side of the glide ring opposite the split entering the upper tube first. Continue to angle and rotate until the glide ring is in the upper tube.
14. Push the seal head firmly into the bottom of the upper tube until the retaining ring groove is visible.
15. Push the rebound damper shaft into the seal head, leaving just enough to grab onto. Use large internal snap ring pliers to secure the snap ring into the snap ring groove.

Make sure the snap ring is securely fastened in the snap ring groove. You can check this by using the snap ring pliers to rotate the snap ring back and forth a couple of times, then firmly pulling down on the damper shaft.

11



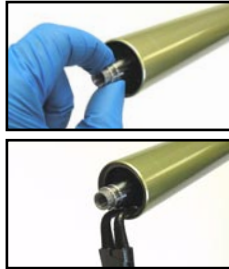
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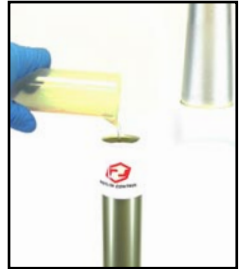
14



15



16



Snap rings have a sharper-edged side and a rounder-edged side. Installing snap rings with the sharper-edged side facing towards the tool will allow for easier installation and removal.

16. Orient the fork upright in the bicycle stand. Pull the rebound damper shaft down to the fully extended position. Measure and slowly pour 5wt RockShox suspension oil into the upper tube, using the following volumes:

Fork	Oil Volume (±3 mL)
Argyle RCT	120 mL
Reba RL, RLT	123 mL
Reba RLT Ti	133 mL
Recon Gold RL	133 mL
Revelation RL, RLT	123 mL
Revelation RLT Ti, WC	133 mL
Sektor RL (Solo Air 130 -150 mm)	130 mL
Sektor RL (Coil U-Turn 150 mm)	125 mL
Sektor RL (Coil U-Turn 140 mm)	125 mL
Sektor RL (Coil U-Turn 130 mm)	120 mL
SID RLT	94 mL
SID RLT Ti, WC	96 mL

Oil volume is critical. Too much oil reduces available travel, too little oil decreases damping performance.

DAMPER INSTALLATION INSTRUCTIONS (CONTINUED)

17. Turn the hex-shaped compression adjuster counter-clockwise until it stops, so the damper is in the full open position. Insert the compression damper into the upper tube. Press down and rock the damper from side to side to work it into the upper tube.
18. Use a 24 mm socket wrench to thread the compression damper into the upper tube and tighten it to 7.3 N·m (65 in·lb).

Argyle only: This completes damper service and installation.

17



18



19. Compression adjuster installation

Crown mounted (non-remote) compression adjusters:

19a. Reba RLT/RLT Ti, Revelation RLT/RLT Ti/WC, SID RLT/RLT Ti/WC only: Install the o-ring/washer seal followed by the compression adjuster knob onto the top cap, with the knob dial set in the 2 o'clock position. Install the floodgate knob onto the compression knob. Use a 1.5 mm hex wrench to tighten the Floodgate knob set screw to 0.6 N·m (6 in·lb).

19b. Reba RL, Revelation RL, SID RL only: Install the o-ring/washer seal followed by the compression adjuster knob onto the top cap, with the knob dial set in the 2 o'clock position. Use small external snap ring pliers to install the external snap ring onto the compression adjuster knob.

19c. Recon Gold, Sektor only: Install the detent leaf spring onto the top cap so that the ends of the detent spring are located at the 3 o'clock and 9 o'clock positions. Install the compression adjuster knob onto the top cap and detent spring, with the knob dial set at the 2 o'clock position. Install the adjuster knob retention screw and use a 2.5 mm hex key to tighten it to 1.3 N·m (11 in·lb).

19a



19b



19c



DAMPER INSTALLATION INSTRUCTIONS (CONTINUED)

Remote mounted compression adjusters:

19d. Reba RLT/RLT Ti, Revelation RLT/RLT Ti, SID RLT/RLT Ti only: Install the o-ring/washer seal onto the top cap. Install the cable stop collar onto the top cap with the cable stop facing toward the front of the fork, perpendicular to the crown. Use a 2 mm hex to tighten the cable stop collar bolt to 1.4 N·m (12 in-lb). Install the remote spool onto the top cap, with the cable set screw set in the 6 o'clock position. Install the Floodgate knob onto the remote spool. Use a 1.5 mm hex wrench to tighten the Floodgate knob set screw to 0.6 N·m (6 in-lb).

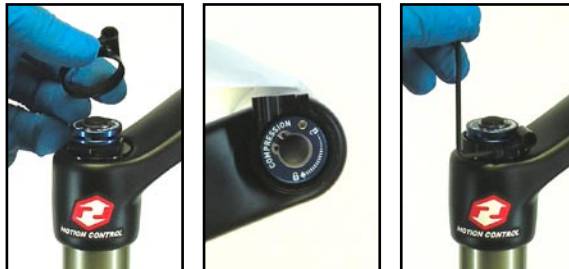
19e. Reba RL, Recon Gold, Revelation RL, Sektor, SID RL only: Install the cable stop collar onto the top cap with the cable stop facing toward the front of the fork, perpendicular to the crown. Use a 2 mm hex to tighten the cable stop collar bolt to 1.4 N·m (12 in-lb).

For forks equipped with a remote compression lockout feature, move on to the Remote Service section for instructions on how to install the remote lever and cable assembly.

19d



19e



OPTIONAL - COMPRESSION DAMPER UPGRADE: NON-REMOTE TO REMOTE ADJUST

Upgrading from a non-remote compression adjust fork to a remote compression adjust - from a crown mounted adjuster knob to a remote PopLoc or PushLoc lever adjuster - requires replacing the non-remote compression damper with a remote compression damper and cable-stop clamp. The remote return spring is designed into the compression damper and is required for use with the PopLoc and PushLoc remote lever assembly.

LOWER LEG INSTALLATION

INTRODUCTION

At this point you should already have already serviced your fork seals, damper system, and spring system. Once you have re-installed your fork lower legs, you will have successfully serviced your fork and you will be ready to ride!

LOWER LEG INSTALLATION INSTRUCTIONS

1. Spray the upper tubes with isopropyl alcohol and wipe them with a clean rag.
2. Apply a small amount of grease to the inner surfaces of the dust wipers, oil seals, and foam rings (if applicable).

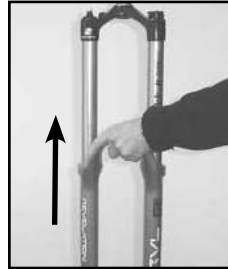
For hollow bottom fork legs, skip to step 6.

3. **Non-hollow bottom fork legs:** Slide the lower leg assembly onto the upper tube assembly just enough to engage the upper bushing with the upper tubes.
Make sure both dust seals slide onto the tubes without folding the outer lip of either seal.
4. Reference the oil chart at the beginning of this manual for proper oil weight and volumes for lower leg lubrication. Invert the fork so that the bottom of the fork is angled upward at about 45°. Measure and inject/pour suspension oil into each lower leg through the shaft bolt hole.
5. Slide the lower leg assembly along the upper tubes until it stops and the spring and damper shafts are visible through the shaft bolt holes (**Dual Air, Air U-Turn, and Dual Position Air** spring shafts should extend through the shaft bolt hole). Wipe all excess oil from the outer surface of the lower legs. Skip to step 8.

2



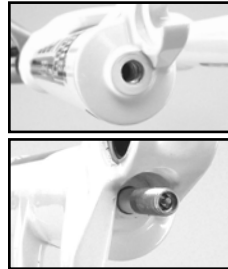
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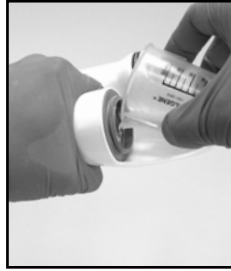


LOWER LEG INSTALLATION INSTRUCTIONS (CONTINUED)

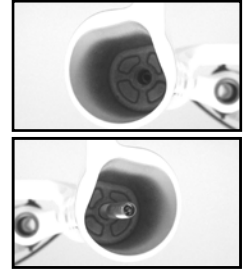
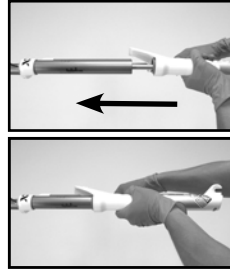
Hollow bottom fork legs:

6. Reference the oil chart at the beginning of this manual for proper oil weight and volumes for lower leg lubrication. Hold the lower leg assembly horizontally and inject/pour suspension oil into each leg from the dust seal side.
7. Position the upper tube assembly horizontally then slide the lower leg assembly onto the upper tube assembly until it stops and the spring and damper shafts are visible through the shaft bolt holes (**Dual Air, Air U-Turn, and Dual Position Air** spring shafts should extend through the shaft bolt hole). Wipe all excess oil from the outer surface of the lower legs.
Be careful not to spill any oil from the lower leg as you install it onto the upper tubes.

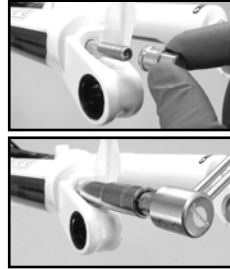
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7



9



10



Make sure both dust seals slide onto the upper tubes without folding the outer lip of either seal.

8. Inspect and clean the damper and air spring shaft bolts/nut, nylon crush washers and crush wash retainers. Replace crush washers and crush washer retainers if damaged.
You must clean dirty crush washers and replace flattened or deformed crush washers and/or crush washer retainers. Dirty or damaged crush washers can cause oil to leak from the fork.
9. Insert the shaft bolts into the threaded shaft ends through the lower leg shaft holes (or air shaft nut onto the threaded shaft end), and tighten with a 5 mm hex (bolt) or 10 mm socket wrench (nut) to 7.3 N·m (65 in-lb).
For hollow bottom fork legs you will need to use a socket extension for the 5 mm bolt and a deep 10 mm socket to thread the Dual Air shaft nut.
10. **For forks with an external rebound adjuster,** insert the external rebound damper knob into the rebound damper shaft bolt. Push it in until secure. Adjust as desired.
11. **For air sprung forks,** refer to the air chart on your fork and inflate the positive and negative (if applicable) air chamber(s) to the appropriate pressure.
12. Spray isopropyl alcohol on entire fork and wipe it with a clean rag.
13. **For air sprung forks,** thread the positive and negative (if applicable) air valve cap(s) onto the air valve(s).

11



13



REMOTE SERVICE

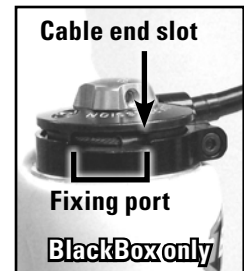
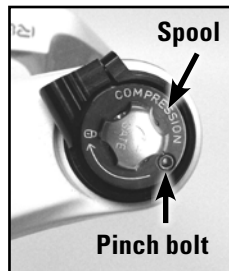
(PUSHLOC - POPLOC ADJUST - POPLOC)

INTRODUCTION

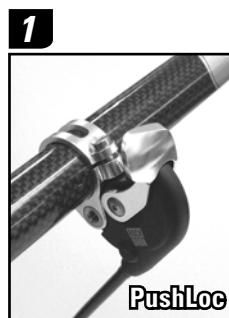
Damper service for forks equipped with remote lockouts will require cable and housing removal and installation. Also, periodic replacement of the cable and housing is recommended for optimal remote performance.

CABLE REMOVAL INSTRUCTIONS

FORK LOCKOUT ANATOMY

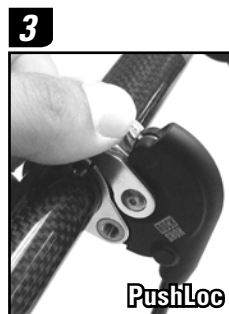
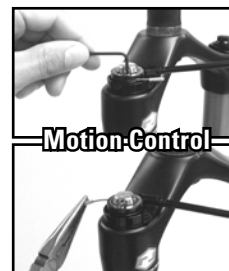
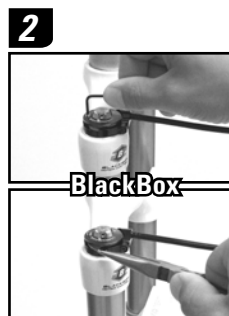


1. **PushLoc only:** Push the remote lever until it returns toward you.
PopLoc and PopLoc Adjust only: Press the button next to the remote lever to set the lever to the fully released, or "Unlocked" position.
2. **BlackBox Motion Control, Lyrik RLR, and Lyrik RLR+ only:** Use a 2 mm hex wrench to loosen the cable pinch bolt on the spool and pull the cable out of the cable end slot. Use pliers to remove the cable end.



OR

3. **Motion Control only:** Use a 2 mm hex wrench to loosen the cable pinch bolt on the spool. Use pliers to remove the cable end.
3. **PushLoc only:** Push the remote lever to the "Locked Out" position. Use your finger to open the cable hatch cover (labeled *CC*, for *Cable Change*). Push the cable through the spool on the fork until the cable head is far enough out of the lever to access.
PopLoc and PopLoc Adjust only: Push the cable through the spool until the cable head is far enough out of the lever to grab onto.
4. Pull the cable head to remove the cable completely from the remote system.
5. If replacing the cable housing, detach the cable housing and end caps from the lever and the cable housing stop on the fork.



CABLE INSTALLATION INSTRUCTIONS

6. If replacing the cable housing, attach the new housing and end caps to the remote lever and the cable housing stop on the fork. Be sure to use compressionless (shift) housing cut to an adequate length to accommodate for travel change and suspension movement.

7. **PopLoc and PopLoc Adjust only:** Push the release button to verify the remote is in the "Unlocked" position.

PopLoc Adjust only: Turn the blue compression adjustment dial counter-clockwise until it stops.

8. Insert the tip of a new shifter cable into the port on the lever and feed the cable through the housing and the cable housing stop on the fork.
9. Pull the cable until the cable head is seated completely in the remote lever.

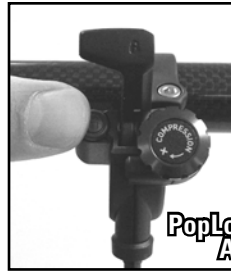
PushLoc only: Once the cable head is seated in the remote lever body, close the cable hatch cover and push the lever to return it to the "Unlocked" position.

10. **BlackBox Motion Control, Lyrik RLR, and Lyrik RLR+ only:** Wrap the cable around the spool and insert it through the cable fixing port. While pulling the cable firmly, use a 2 mm hex wrench to tighten the cable pinch bolt to 0.9 N·m (8 in-lb). Cut the excess cable, leaving 30 mm protruding from the cable fixing port. Cap the end of the cable with a non-flanged, or "road style" cable end. Tuck the cable end into the cable end slot in the spool.

OR

Motion Control only: Wrap the cable around the spool. While pulling the cable firmly, use a 2 mm hex wrench to tighten the cable pinch bolt to 0.9 N·m (8 in-lb). Cut the excess cable and cap it with a cable end.

7



PopLoc/PopLoc Adjust



8



PushLoc



PopLoc/PopLoc Adjust

9



PopLoc/PopLoc Adjust

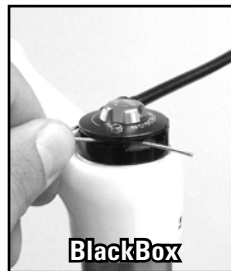


PushLoc

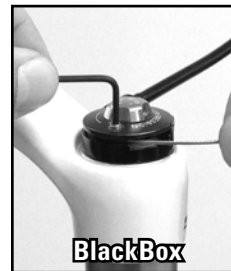


PushLoc

10



BlackBox



BlackBox



BlackBox



Motion Control



Motion Control

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