ROCK SHOX

ARGYLE

2011 Technical Manual

SRAM ROCK SHOX Avid TRUVATIV

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.zipp.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.

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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 Argyle 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
Schrader Valve Tool
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 Argyle 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) Upper Tube	Oil wt Upper Tube	Volume (ml) Lower Leg	Oil wt Lower Leg
Argyle	R	Rebound Only	130	5	10	15
	RC	Motion Control				
	RCT		120		3-8	

Spring Technology (Non-Drive Side)	Volume (ml) Upper Tube	Oil wt Upper Tube	Volume (ml) Lower Leg	Oil wt Lower Leg
Coil	-	-	30	15
Coil				
Solo Air	3		3-8	

TORQUE TIGHTENING VALUES

The following chart is a summary of the primary torque tightening values for Argyle 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)

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 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.



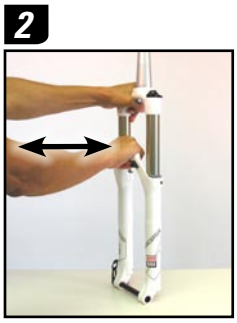


OR

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 correspoding part number for your fork.



LOWER LEG REMOVAL

INTRODUCTION

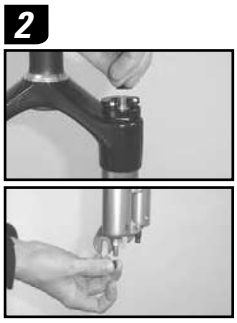
Removing the lower legs is the first step in servicing your fork. Once you have removed your fork lower legs, you'll be ready to move onto the next section.

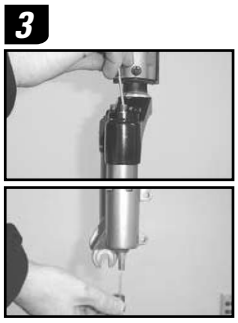
LOWER LEG REMOVAL

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.

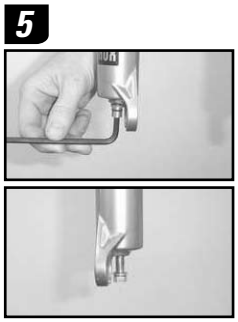
CAUTION
Verify all pressure is removed from the fork before proceeding. Failure to do so can result in injury and/or damage to the fork.

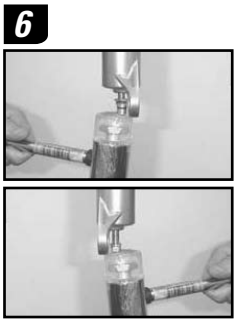
4. Remove the external rebound adjuster knob (if applicable) by pulling it from the shaft bolt at the bottom of the right fork leg.
5. Use a 5 mm hex wrench to loosen both shaft bolts 3 to 4 turns.
   Dual Air, Air U-Turn, 2-Step, and Dual Position Air equipped forks: Use a 10 mm socket (or open end) 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.





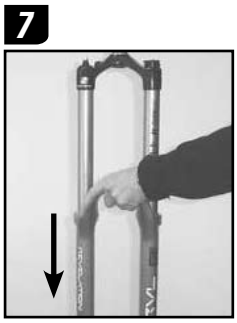






LOWER LEG REMOVAL (CONTINUED)

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.





LOWER LEG SEAL SERVICE

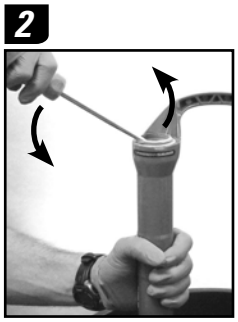
INTRODUCTION

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.







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.





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.

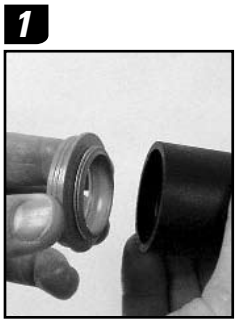






Dust wiper installation

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









COIL SPRING SERVICE

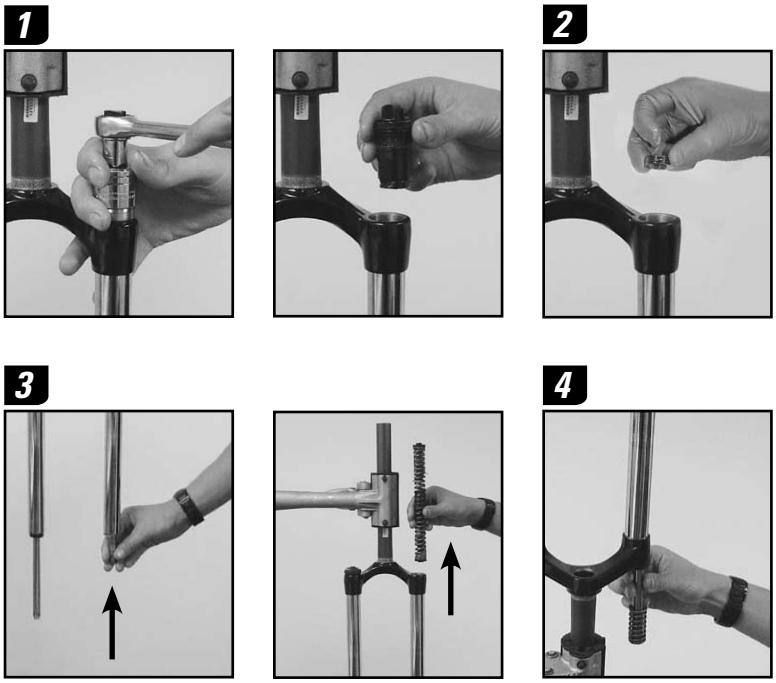
(ARGYLE R, RC - DART 1, 2, 2 (WITH TURNKEY), 3 - DOMAIN R, RC - TORA 289, 302)

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.

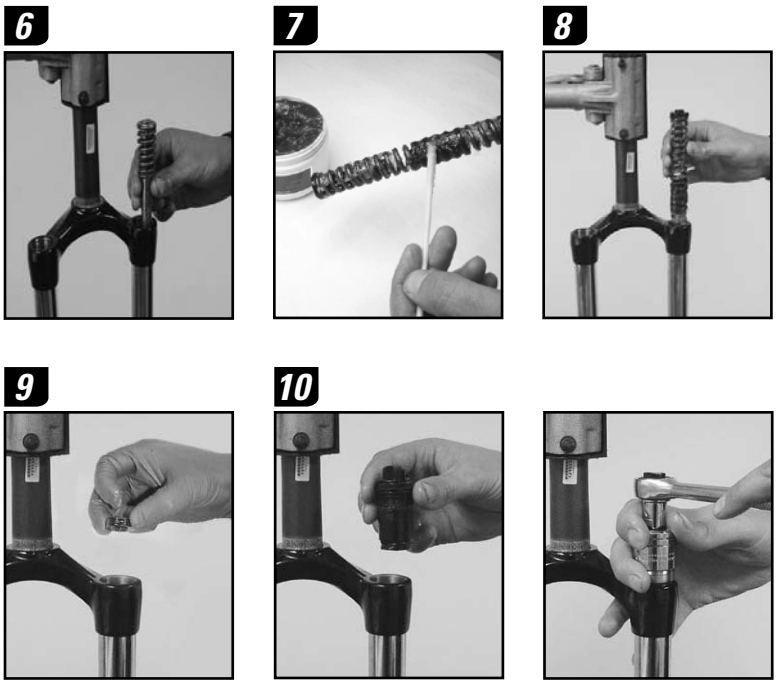
COIL SPRING REMOVAL INSTRUCTIONS

1. Unthread and remove the spring top cap with a 24 mm socket and socket wrench. Once removed, clean the upper tube threads with a rag.
   Press down firmly when loosening the top cap.
2. **Argyle only:** Remove the spring pre-load spacer(s).
3. Push the spring shaft upward, from the bottom of the upper tube, then remove the coil spring and spring spacers from the upper tube.
   Argyle, Dart, and Tora only: 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.
4. Turn the fork upside down and slide the spring shaft assembly out of the upper tube. Remove the spring shaft assembly. Clean the spring shaft assembly and inspect it for damage.
5. 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.



COIL SPRING INSTALLATION INSTRUCTIONS

6. Insert the spring shaft assembly into the upper tube from the top. Guide the threaded end through the shaft guide at the bottom of the upper tube and gently pull the shaft through to full extension.
7. Apply fresh grease liberally to the coil spring/spring spacer assembly.
8. Insert the coil spring/spring spacer assembly into the upper tube from the top.
9. **Argyle only:** Install the spring pre-load spacers onto the coil spring.
10. Clean the top cap, then apply a small amount of grease to the top cap threads **(Argyle and Domain only)**. Insert and hand thread the top cap into the upper tube. Use a 24 mm socket and socket wrench to tighten the top cap to 7.3 N·m (65 in-lb).



SOLO AIR SPRING SERVICE
(ARGYLE RCT - SEKTOR R, TK, RL)

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

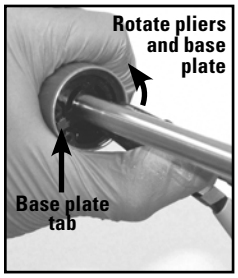
Verify all pressure is removed from the fork before proceeding. Depress the Schrader valve again to remove any remaining air pressure. Failure to do so can result in injury and/or damage to the fork.

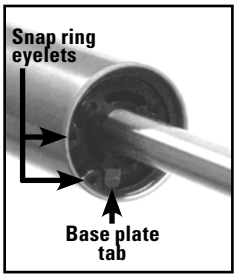
1. Unthread and remove the air spring top cap with a 24 mm socket wrench. Once removed, clean the upper tube threads with a rag.
2. Place the tips of large internal snap ring pliers in two of the ports in the base plate. Use the snap ring pliers to firmly press the bottom of the base plate into the upper tube and rotate until the base plate tab is behind the snap ring, out of the way of the snap ring eyelets.
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. Firmly pull on the air shaft 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. Slide the base plate, wavy washer, aluminum support washer, negative piston top out bumper, travel spacer (if applicable), negative piston, top out bumper, and kick plate from the air shaft. Spray the air shaft with isopropyl alcohol and wipe clean with a rag.

1



2



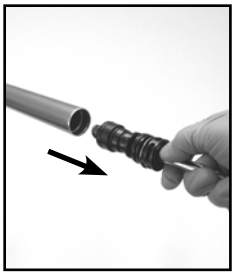


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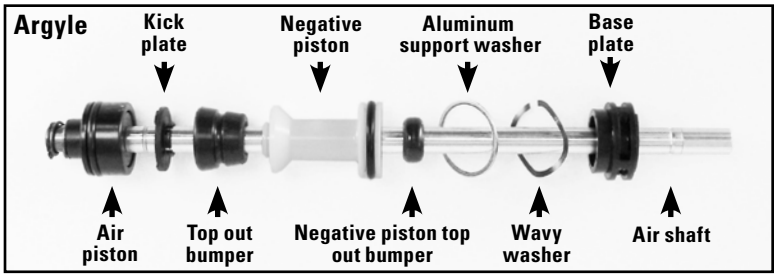


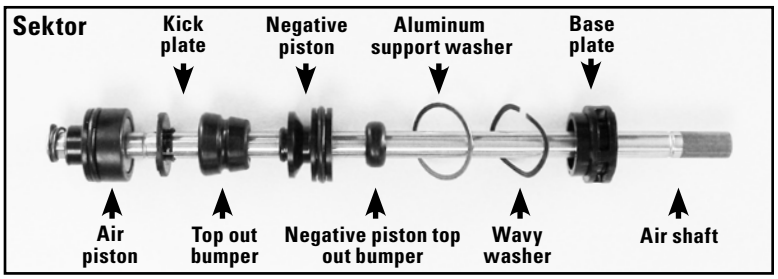


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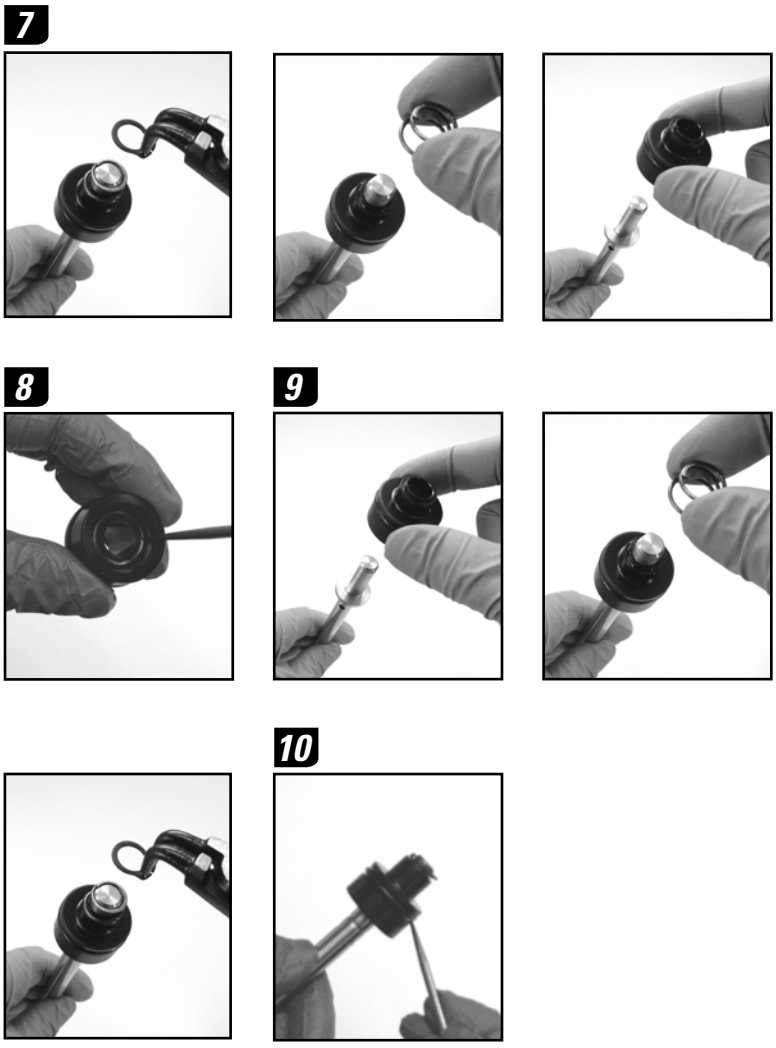
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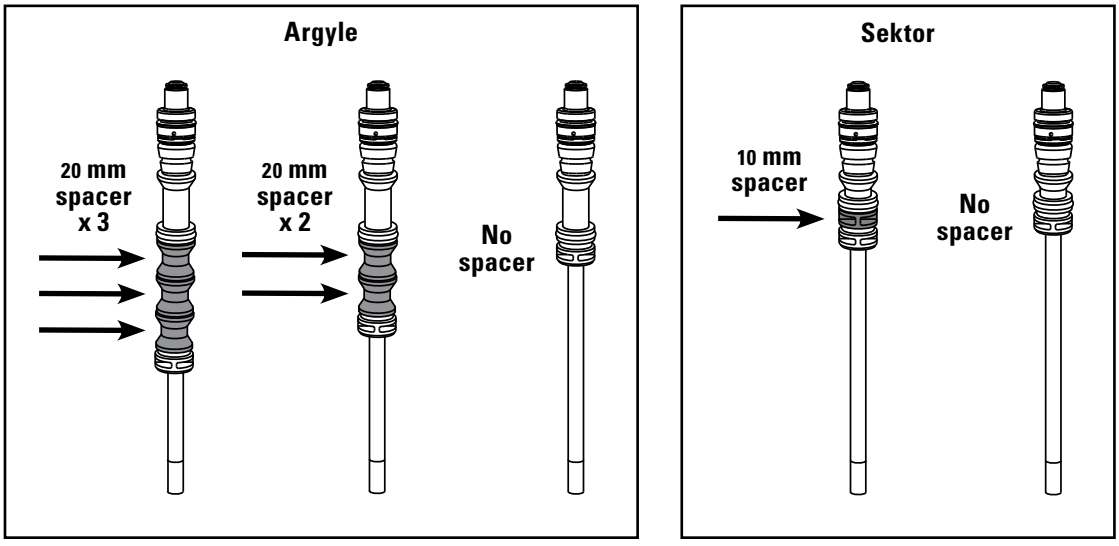
SOLO AIR SPRING REMOVAL/SERVICE INSTRUCTIONS (CONTINUED)

7. Use small external snap ring pliers to remove the air piston snap ring. Remove the air piston and coil spring 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.
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 a 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 coil spring 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 coil spring to the air shaft head. The air piston should compress upward slightly with spring resistance from piston spring and snap ring.
   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.
10. Use a pick to remove the air piston outer o-ring. Apply grease to the new o-ring and install it.



OPTIONAL - ALL TRAVEL CONFIGURATION

The All Travel spacers are located between the base plate and negative piston. If you want to change the travel of your fork, install the travel spacer(s) to decrease travel, or remove the spacer(s) to increase travel.

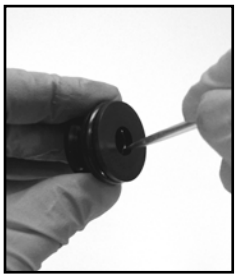


SOLO AIR SPRING INSTALLATION INSTRUCTIONS

11. 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. Re-install the kick plate, top out bumper, and negative piston onto the air shaft with the kick plate oriented toward the air piston. Re-install the travel spacer (if applicable), negative piston top out bumper, aluminum support washer, wavy washer, and base plate onto the air shaft with the small diameter side of the base plate oriented toward the negative piston.
    If the aluminum support washer and wavy washer are seperated from the base plate, install the wavy washer onto the base plate first, followed by the aluminum support washer.
13. Apply grease to the air piston o-ring, the negative piston outer o-ring, and the air shaft, between the negative piston and the base plate. Apply grease evenly to the inside of the upper tube, from the end of the tube (opposite the crown) to approximately 60 mm into the tube.
14. 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.
15. Install the snap ring onto large internal snap ring pliers. Use the pliers to push the base plate into the upper tube while installing the snap ring into its groove. The base plate tab should be situated between the snap ring eyelets.
    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.

    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.
16. Use isopropyl alcohol and a clean rag to clean the top cap, then apply a small amount of grease to the top cap o-ring. Insert the top cap into the upper tube/crown and hand thread it into the upper tube.
17. Use a 24 mm socket wrench to tighten the top cap to 7.3 N·m (65 in-lb).

11





13

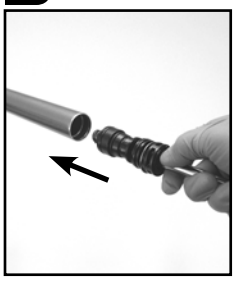






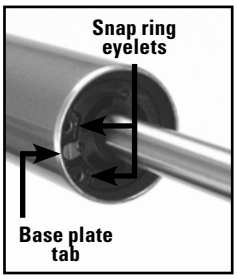


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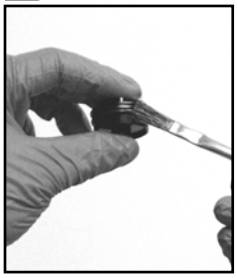


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16





17



REBOUND DAMPER SERVICE

(ARGYLE R - DART 2 - DOMAIN R - RECON SILVER R - TORA 289)

INTRODUCTION

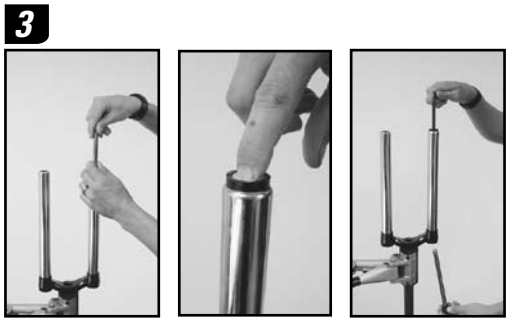
At this point you should already have the lower legs removed from your fork. If not, you will need to return to the Lower Leg Removal section of this manual and follow the instructions for removing your fork lower legs.

DAMPER SERVICE INSTRUCTIONS

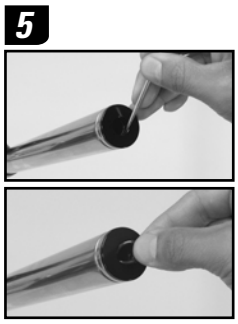
1. Use a 24 mm socket wrench to unthread the top cap. Once removed, clean the upper tube threads with a rag.
2. Remove the fork from the bicycle stand and pour the oil into an oil pan.
3. Turn the fork upside down and push the rebound damper shaft through the shaft guide/ seal head. Use a long dowel rod to push the damper piston past the upper tube threads and remove the damper from the upper tube.
4. Remove the rebound damper piston o-ring/ glide ring. Apply a few drops of RockShox suspension oil to the new o-ring/glide ring and install it.
5. **Argyle R, Domain R, Recon Silver R, and Tora 289 only:** Use a pick to remove the damper inner seal head o-ring, located in the bottom of the upper tube. Apply a few drops of RockShox suspension oil to a new o-ring and install it. **If using a pick to remove o-rings, do not scratch the o-ring glands. Scratches may cause oil to leak.**
6. Clamp the fork back into the bicycle stand. Apply grease to the upper tube threads. Insert the rebound damper back into the drive side upper tube, shaft first, and push the piston into the upper tube.
7. Use a long dowel rod to push the rebound damper into the upper tube. Guide the rebound damper shaft through the damper shaft guide/ seal head at the bottom of the upper tube and pull the shaft through by hand into the fully extended position.

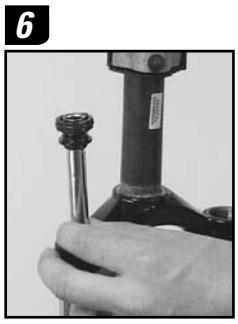




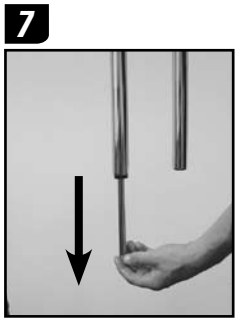












8. Orient the fork upright in the bicycle stand. Measure and slowly pour 5wt RockShox suspension oil into the upper tube using the volumes listed in the chart below.
Oil volume is critical. Too much oil reduces available travel, too little oil decreases damping performance.

Fork	Oil Volume (±3 mL)
Argyle R	130 mL
Dart 2	150 mL
Domain R	200 mL
Tora 289	150 mL
Recon Silver R	147 mL

9. 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).

8



9



MOTION CONTROL/MOTION CONTROL IS DAMPER SERVICE
(ARGYLE RC - DOMAIN RC)

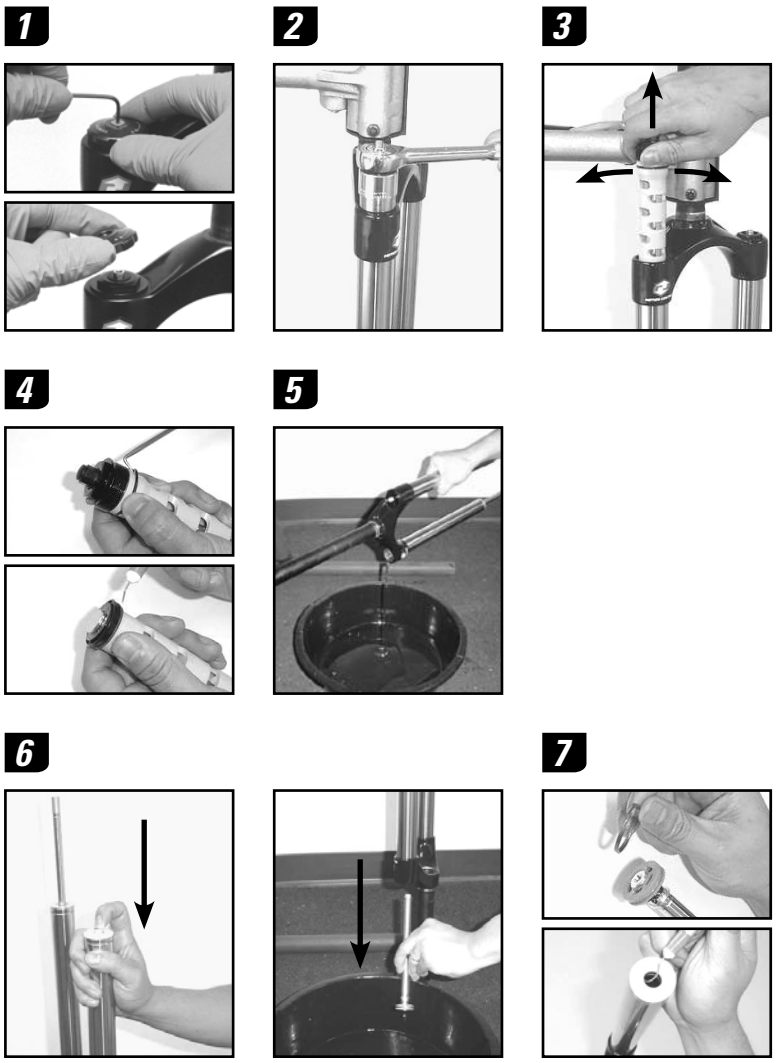
INTRODUCTION

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

For Argyle RC, skip step 1 and move to step 2.

1. Use a 2 mm hex to remove the screw from the compression adjuster knob. Remove the compression adjuster knob.
2. Unthread the compression damper top cap with a 24 mm socket wrench.
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 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. Hold the fork upside down. Push the rebound damper shaft through the seal head and into the upper tube. Remove the rebound damper from the upper tube.
7. Remove the rebound damper glide ring and inner seal head o-ring. Apply grease to the new o-rings and install them.



8. Clamp the fork back into the bicycle stand. Spray isopropyl alcohol into the upper tube. Wrap a clean rag around a dowel and clean the inside of the upper tube.
9. Insert the rebound damper back into the upper tube, shaft first. Guide the rebound damper shaft through the damper seal head at the bottom of the upper tube. Pull the damper shaft down to the fully extended position.
10. Measure and slowly pour 5wt RockShox suspension oil into the upper tube, using the following volumes:

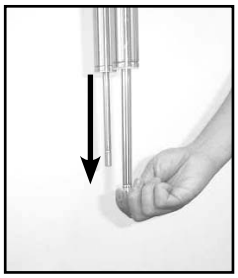
Fork	Oil Volume (±3 mL)
Argyle RC	130 mL
Domain RC	200 mL

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

11. Apply a liberal amount of grease to the upper tube threads. Insert the compression damper into the upper tube. Push down on the compression damper and rock it in a circular motion to work it into the upper tube.
12. Once the damper piston seal clears the threads, push the damper approximately half way into the upper tube, then pull up on it slightly. The compression damper should slide up and down easily, indicating that the seal is in the proper position, and not folded over.
If the damper does not slide up and down easily, remove the compression damper, re-grease the upper tube threads, and re-install the damper.
13. Press the compression damper down until the top cap o-ring contacts the upper tube threads. Turn the damper clockwise to thread it into the upper tube. Use a 24 mm socket wrench to tighten the top cap to 7.3 N·m (65 in-lb).
For Argyle RC this completes the installation process.
14. **Domain only:** Place the compression adjuster knob onto the compression damper top cap. Install the knob retention bolt and use a 2 mm hex to tighten it to 0.6-1.0 N·m (5-9 in-lb).

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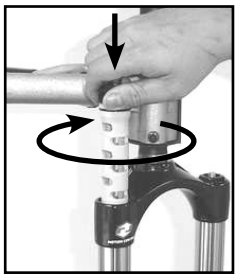




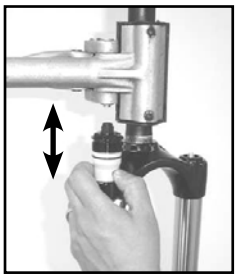
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11



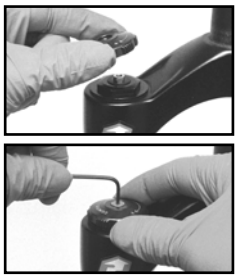
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13



14



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



DAMPER REMOVAL/SERVICE INSTRUCTIONS (CONTINUED)

Remote mounted compression adjusters:

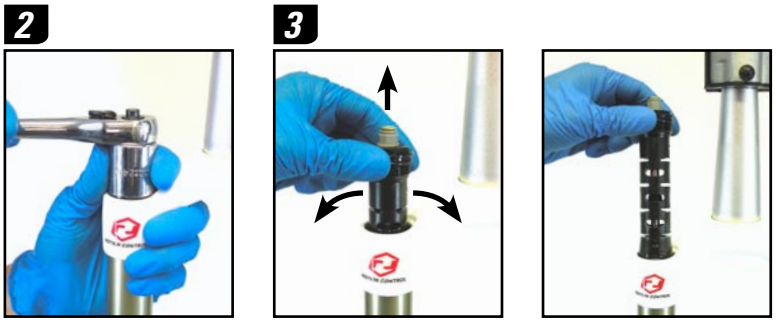
1e. Reba RLT/RLT Ti, Revelation RLT/RLT Ti/WC, SID RLT/RLT Ti/WC only: Use a 1.5 mm hex wrench to loosen the Floodgate knob set screw. Remove the Floodgate knob and the remote spool. Use a 2 mm hex wrench to loosen the cable stop collar bolt. Remove the cable stop collar. Remove the o-ring/washer seal.

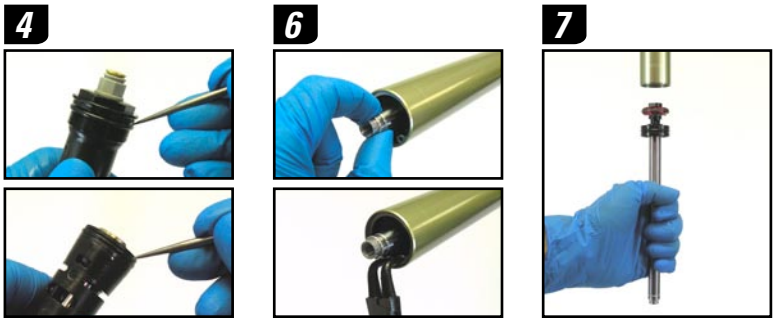
1f. Reba RL, Recon Gold, Revelation RL, Sektor, SID RL only: Use a 2 mm hex wrench to loosen the cable stop collar bolt. Remove the cable stop collar. You do not need to remove the remote spool.

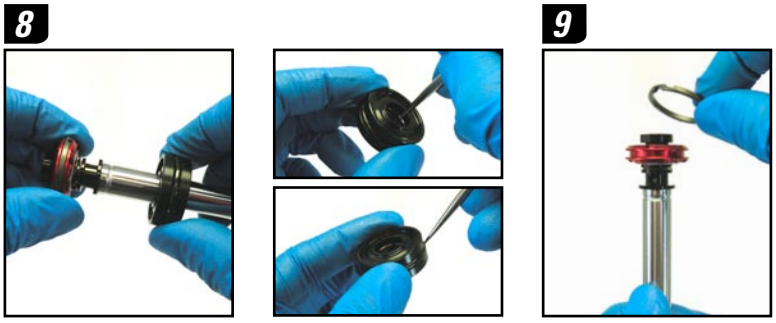
2. Use a 24 mm socket wrench to unthread the compression damper top cap.
3. Remove the compression damper from the upper tube/crown by pulling up and rocking it from side to side.
4. Remove the compression damper top cap o-ring and piston o-ring. Apply grease to the new o-rings and install them.
   If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











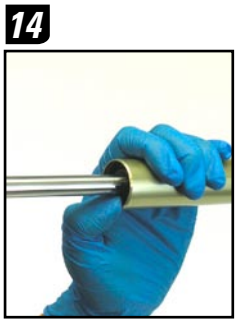
DAMPER INSTALLATION INSTRUCTIONS

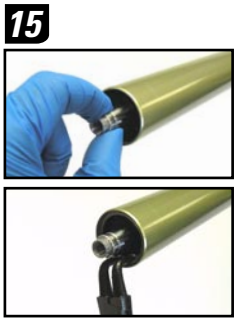
11. Slide the rebound seal head assembly onto the rebound damper shaft.
12. Spray isopropyl alcohol into the upper tube. Wrap a clean rag around a dowel and clean the inside of the upper tube.
13. Insert the rebound damper piston into the bottom of the upper tube at an angle, with the side of the glide 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.

    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:

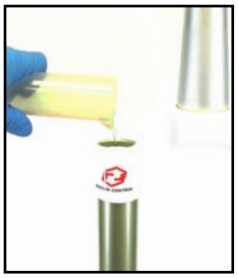












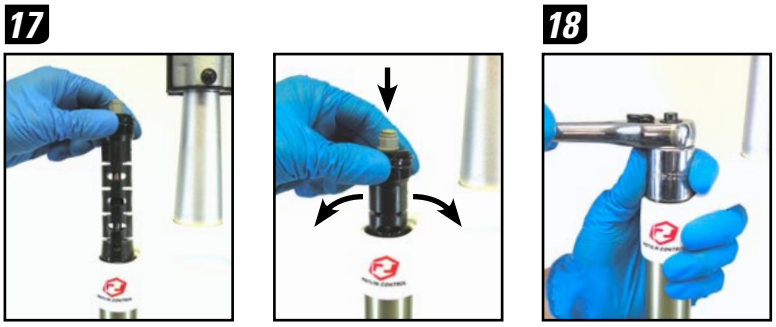
Fork	Oil Volume (±3 mL)
Argyle RCT	120 mL
Reba RL, RLT	123 mL
Reba RLT Ti	133 mL
Recon Gold RL	133 mL
Revelation RL, RLT	123 mL
Revelation RLT Ti, WC	133 mL
Sektor RL (Solo Air 130 -150 mm)	130 mL
Sektor RL (Coil U-Turn 150 mm)	125 mL
Sektor RL (Coil U-Turn 140 mm)	125 mL
Sektor RL (Coil U-Turn 130 mm)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

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.

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).









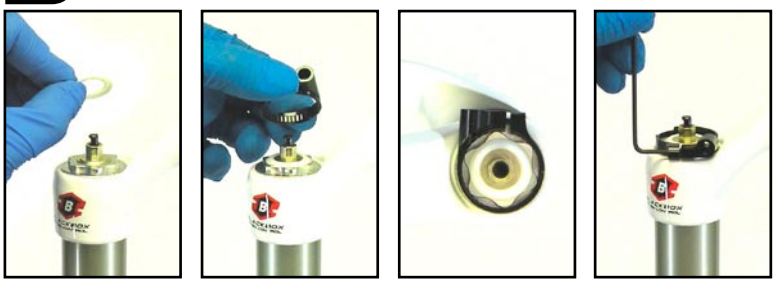


DAMPER INSTALLATION INSTRUCTIONS (CONTINUED)

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).

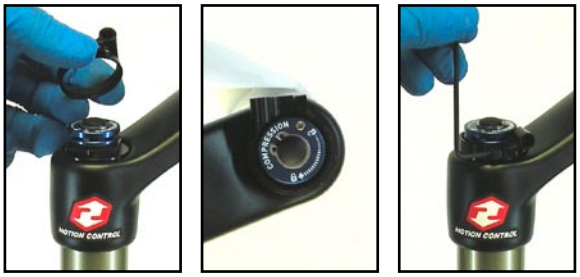
For forks equipped with a remote compression lockout feature, move on to the Remote Service section for instructions on how to install the remote lever and cable assembly.

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

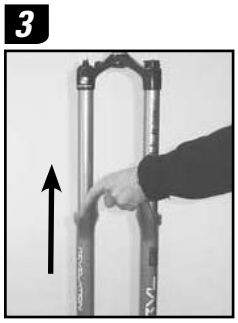
At this point you should already have already serviced your fork seals, damper system, and spring system. Once you have re-installed your fork lower legs, you will have successfully serviced your fork and you will be ready to ride!

LOWER LEG INSTALLATION INSTRUCTIONS

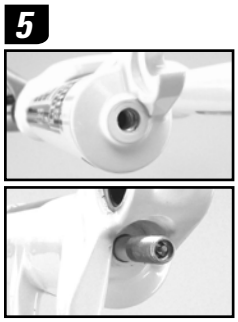
1. Spray the upper tubes with isopropyl alcohol and wipe them with a clean rag.
2. Apply a small amount of grease to the inner surfaces of the dust wipers, oil seals, and foam rings (if applicable).

   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.





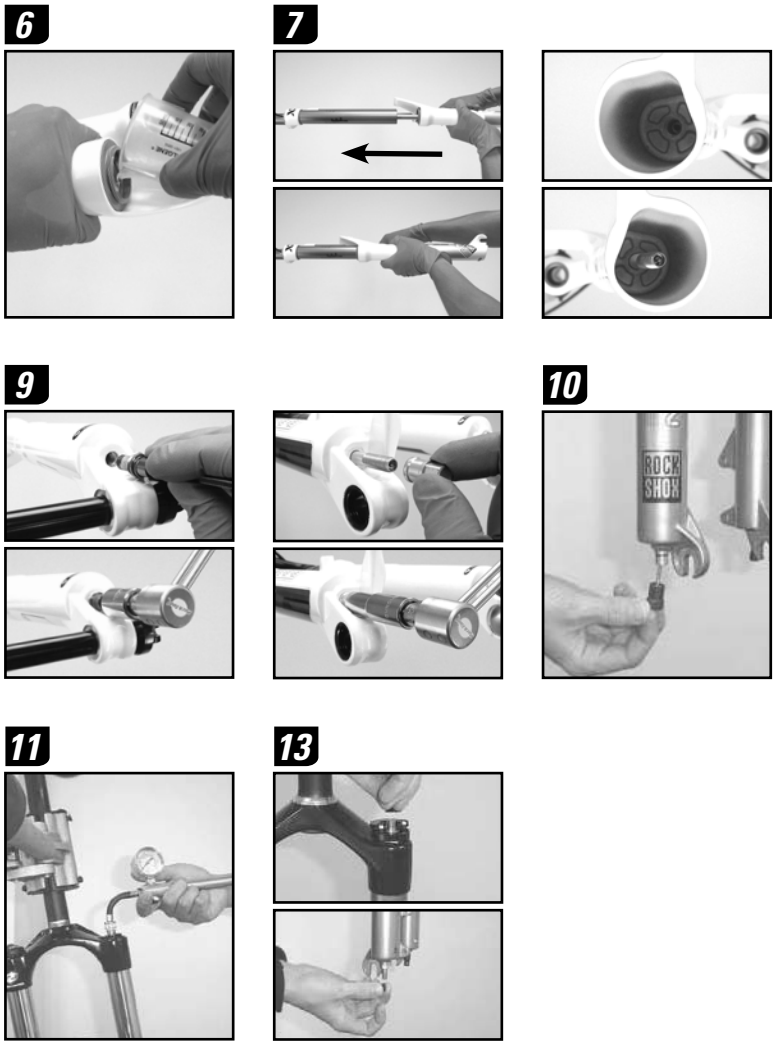




Hollow bottom fork legs:

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.

   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).



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