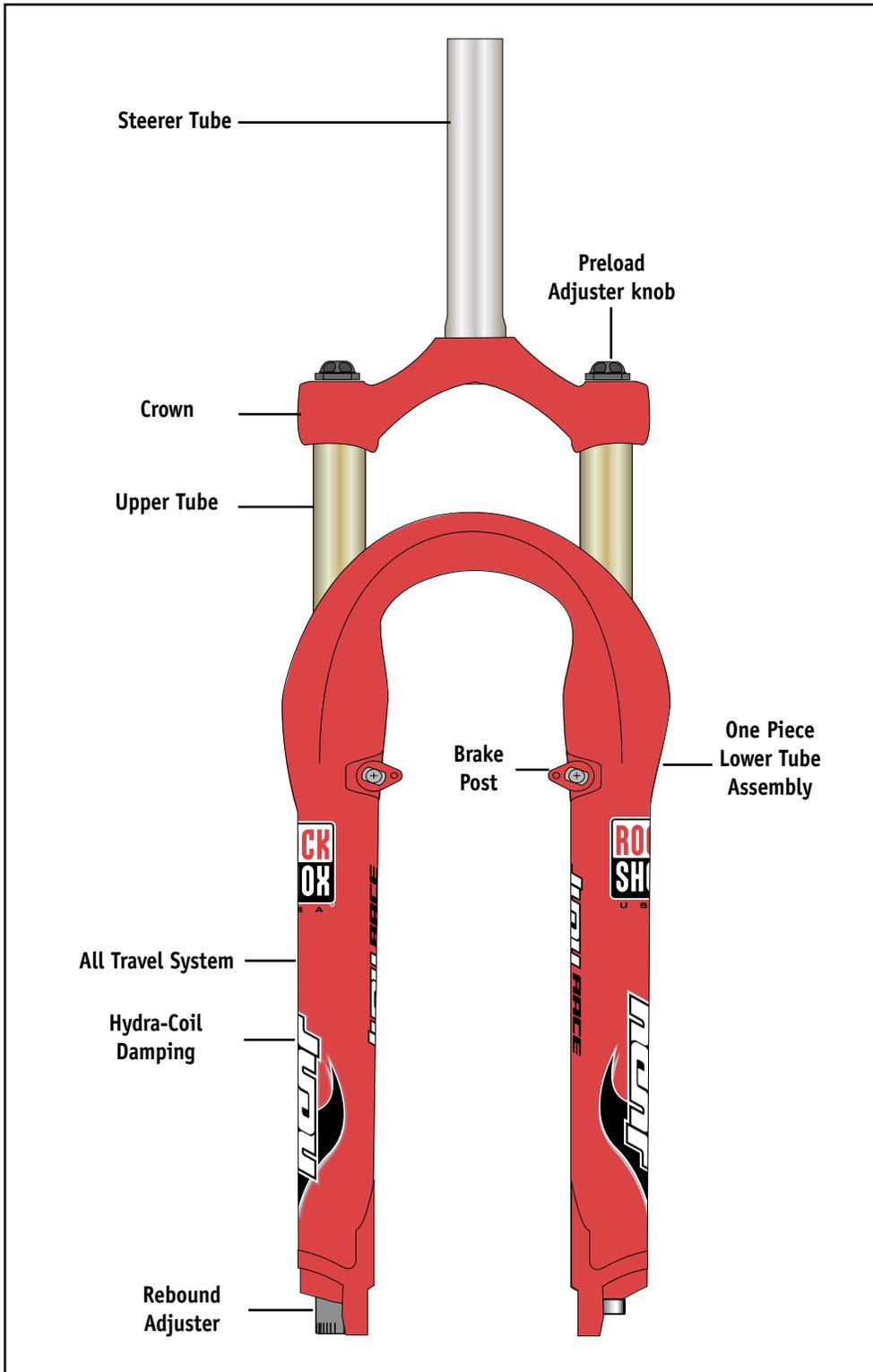


2001 OWNER'S MANUAL

(Race, SL, XC, C)



Note: Your fork's appearance may vary from the illustrations/photos in this manual.

* Denotes updated information since the printed version that came with your fork.

Congratulations! You have the best in suspension components on your bicycle! This manual contains important information about the safe operation and maintenance of your fork. To insure that your RockShox fork performs properly, we recommend that you have your fork installed by a qualified bicycle mechanic. We also urge you to follow our recommendations to help make your bicycling experience more enjoyable and trouble-free.

I M P O R T A N T

Consumer Safety Information

1. Before riding the bicycle, be sure the brakes are properly installed and adjusted. If the brakes do not work properly, the rider could suffer serious and/or fatal injuries.
2. If the fork ever loses oil or if it makes sounds of excessive topping out, stop riding the bicycle immediately and have the fork inspected by a dealer or call RockShox. Continuing to ride with the shock in these conditions could result in loss of control of the bicycle with possible serious and/or fatal injuries.
3. Always use genuine RockShox parts. Use of aftermarket replacement parts voids the warranty and could cause structural failure to the shock. Structural failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.
4. Use extreme caution not to tilt the bicycle to either side when mounting the bicycle to a carrier by the fork drop-outs (front wheel removed). The fork legs may suffer structural damage if the bicycle is tilted while the drop-outs are in the carrier. Make sure the fork is securely fastened down with a quick release. Make sure the rear wheel is fastened down when using ANY bike carrier that secures the fork's drop-outs. Not securing the rear can allow the bike's mass to side-load the drop-outs, causing them to break or crack. If the bicycle tilts or falls out of its carrier, do not ride the bicycle until the fork is properly examined for possible damage. Return the fork to your dealer for inspection or call RockShox if there is any question of possible damage (See the International Distributor List). A fork leg or drop-out failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.
5. Only mount cantilever-type brakes to the existing brake posts. Forks with hangerless style braces are only designed for 'V'- style or hydraulic cantilever brakes. Do not use any cantilever brake other than those intended by the brake manufacturer to work with a hangerless brace. Do not route the front brake cable and/or cable housing through the stem or any other mounts or cable stops. Do not use a front brake cable leverage device mounted to the brace.

ROCKSHOX FORKS ARE DESIGNED FOR COMPETITIVE OFF-ROAD RIDING AND DO NOT COME WITH THE PROPER REFLECTORS FOR ON-ROAD USE. YOUR DEALER SHOULD INSTALL PROPER REFLECTORS TO MEET THE CONSUMER PRODUCT SAFETY COMMISSION'S (CPSC) REQUIREMENTS FOR BICYCLE STANDARDS IF THE FORK IS GOING TO BE USED ON PUBLIC ROADS AT ANY TIME.

I N S T A L L A T I O N

It is extremely important that your RockShox fork is installed correctly by a qualified bicycle mechanic. Improperly installed forks are extremely dangerous and can result in severe and/or fatal injuries.

1. Remove the existing fork from the bicycle and the crown race from the fork. Measure the length of the fork steerer tube against the length of the RockShox steerer tube. The RockShox steerer tube may need cutting to the proper length. Make sure there is sufficient length to clamp the stem (refer to the stem manufacturer's instructions).

W A R N I N G

DO NOT ADD THREADS TO ROCKSHOX THREADLESS STEERERS. THE STEERER TUBE CROWN ASSEMBLY IS A ONE-TIME PRESS FIT. REPLACEMENT OF THE ASSEMBLY MUST BE DONE TO CHANGE THE LENGTH, DIAMETER OR HEADSET TYPE (THREADED OR THREADLESS).

DO NOT REMOVE OR REPLACE THE STEERER TUBE. THIS COULD RESULT IN THE LOSS OF CONTROL OF THE BICYCLE WITH POSSIBLE SERIOUS AND/OR FATAL INJURIES.

2. Install the headset crown race (26.4mm for 1" steerers, 29.9mm for 1 1/8" steerers) firmly against the top of the fork crown. Install the fork assembly on the bike. Adjust the headset until you feel no play or drag.
3. Install the brakes according to the manufacturer's instructions and adjust brake pads properly. Use the fork only with V-type or hydraulic cantilever brakes mounted to the existing brake posts or disc style brakes mounted through the provided mounting holes. Do not use any cantilever brake other than those intended by the brake manufacturer to work with a hangerless brace.
4. Adjust the front wheel quick release to clear the dropout's counter bore. The quick release nut must be tightened after the wheel is properly seated into the dropout's counter bore. Make sure four or more threads are engaged in the quick release nut when it is closed. Orient the quick release lever in front of and parallel to the lower tube in the locked position.
5. Keep in mind tire clearance as you choose tires. Maximum size is 2.4" wide or 348 mm radius installed. Be sure to check this radius whenever you change tires. To do this, remove the top caps and spring stack assemblies and compress the fork completely to make sure at least 5 mm of clearance exists between the top of the tire and the bottom of the crown. Exceeding maximum tire size will cause the tire to jam against the crown when the fork is fully compressed.

- Hangerless Reflector Bracket Installation: Orient black reflector bracket to the front of the fork with the 90-degree bend under the fork brace. Place the star washer onto the hex bolt and insert this assembly through the lowest oval hole in the bracket and through the hole in the brace. Thread the nut onto the bolt at the back of the brace and push the reflector bracket up until the tab rests firmly against the bottom of the fork brace. Torque nut to 60 in-lb. (6.8 Nm).

PERFORMANCE TUNING

RockShox Judy forks can be tuned for your particular weight, riding style, and terrain.

Setting Sag

Judy forks are designed to sag when you are sitting on your bike. Sag is the compression of the fork caused by the rider's weight. Proper sag allows the front wheel to follow the contour of the terrain as you ride. Sag is adjusted by turning the top cap preload adjuster. Turning the adjuster clockwise increases spring preload (i.e. stiffening the spring) decreasing sag. Turning the adjuster counter clockwise decreases spring preload which increases sag.

<u>Fork Travel</u>	<u>Sag</u>
63mm	7-15mm
80mm	13-20mm
100mm	18-25mm

To measure sag, install a zip tie on the upper tube of the fork flush against the XXX seal. Sit on the bike with normal riding apparel. Step off the bike, and measure the distance between the XXX seal and the zip tie. This is your sag. If you're unable to achieve optimum sag by turning the preload adjuster, you may need to change the fork's spring rate. Read On!

Changing the Spring Rate

Spring rate is the amount of force needed to compress a spring a given distance. Exchanging your Judy fork's coil springs for springs of a higher or lower rate will alter the overall feel of your fork. Higher spring rates make the fork feel more "stiff", while lower spring rates make the fork more "supple". Contact your local RockShox dealer to order replacement springs.

External Rebound Adjustment (XC,SL,Race)

To change the rebound damping on your Judy, locate the adjuster knob on the lower right leg. A clockwise adjustment will increase the rebound damping; a counterclockwise adjustment will decrease the rebound damping. The knob offers 90 degrees of adjustment. Do not turn the rebound adjuster past its stop limits. Small changes in knob position will make large changes on the trail. Start in the middle, and increase or decrease as necessary.

Oil Tuning

Changing the HydraCoil oil in your Judy fork will alter its rebound characteristics. Rebound is the extension or return of your fork. To slow the rebound of your fork, replace the stock 5 weight oil in your fork with a heavier weight oil (10 or 15 weight).

MAINTENANCE

To maintain the high performance, safety, and long life of your fork, periodic maintenance is required. If you ride in extreme conditions, maintenance should be performed more frequently.

Before Every Ride

Check the other components on your bicycle in accordance with the manuals supplied by the manufacturer to make sure they are in working order.

After Every Ride

Clean and dry the exterior of your fork. Avoid directing water pressure at the upper tube/XXX seal junction.

Every 25 hours of Riding

- Judy C and XC only:** Lift boots from lower legs. Wipe exterior surfaces, XXX seal area, and upper tubes. Apply 2-3 drops of Teflon-based oil to the upper tube/lower tube junction. Refit boots.
- Judy SL and Race only:** Using a small blade screwdriver, carefully push the XXX seal up from the lower tubes. Saturate the foam wiper with 5 weight oil. Refit wiper in lower tube.

NOTE: TO PREVENT SCRATCHING THE UPPER TUBES, COVER THE SCREWDRIVER TIP WITH A SOFT CLOTH. CAREFULLY LIFT THE FOAM LUBRICATION RING. INSURE THAT THE FOAM RING IS CLEAN AND FREE OF DEBRIS.

- Check top cap assemblies, brake post bolts, and shaft bolts for proper torque.

Torque Tightening Values

Top Caps	40 in-lb
Brake Posts	80 in-lb
Shaft Bolts	60 in-lb
Reflector Bracket Nut	60 in-lb

Every 100 Hours of Riding

NOTE: SERVICE ON YOUR JUDY CAN BE PERFORMED WITH IT STILL INSTALLED ON YOUR BICYCLE. YOU WILL NEED TO DISCONNECT THE FRONT BRAKE CABLE AND REMOVE THE WHEEL.

Tools required

- 5mm Hex Wrench
- Internal Snap Ring Pliers
- 24mm 6-point Socket
- RockShox Oil
- Torque Wrench
- Plastic Face Mallet
- Small Blade Screwdriver
- Safety Glasses

REMOVE SPRING STACK (FIGS. 1-4)

1. Using a 24mm socket remove the top cap and coil springs from each leg.
2. Judy SL/Race Only-Using a small blade screwdriver, carefully push the XXX seal (gray) up from the lower tubes.

NOTE: TO PREVENT SCRATCHING THE UPPER TUBES, COVER THE SCREWDRIVER TIP WITH A SOFT CLOTH. CAREFULLY LIFT THE FOAM LUBRICATION RING. INSURE THAT THE FOAM RING IS CLEAN AND FREE OF DEBRIS. LEAVE EACH ON UPPER TUBE.

REMOVE LOWER TUBE ASSEMBLY (FIG. 5)

3. Judy XC/SL/Race Only-Gently pull downward to remove adjuster knob.
4. Loosen shaft bolts 5 turns and tap firmly with a plastic faced mallet to separate the shafts from the lower tubes.
5. Keep a bucket nearby to catch oil. Inspect the condition of removed oil. If the oil is opaque and/or milky (water contamination), the lower tube assembly should be cleaned.
6. Remove shaft bolts.
7. Carefully slide lower tube assembly off of upper tubes.

CLEAN LOWER TUBE ASSEMBLY

8. Use a biodegradable solvent (Simple Green, Pedros, or equivalent) and a 12" long, 1 ¼" diameter soft bristle bottle brush to clean the lower tube internals. Dry thoroughly.

REMOVE DAMPER AND PLUNGER SHAFT (FIG. 6)

9. Judy SL/Race-Using internal snap ring pliers, remove the retaining ring from the bottom of the upper tube. Slide the damper assembly (right side) and the plunger assembly (left side) out of the upper tube, noting the orientation of the All Travel spacers.

NOTE: USE CARE NOT TO DAMAGE THE PISTON GLIDE RING!!

10. Judy C/XC- Using a long, cylindrical rod, push the plunger and damper rods through and out the top of the upper tubes.

ALL TRAVEL CONFIGURATION (FIG. 7-9)

11. Judy XC/SL/Race Only- Note the orientation of the two All Travel Spacers on the plunger and damper rods. To change the travel, position the two All Travel Spacers as illustrated in Figs. 7-9.

INSTALL DAMPER AND NEUTRAL SHAFT

12. Do not confuse the damper shaft with the plunger shaft. The damper shaft can be easily identified by the series of washers below the piston.
13. **Judy SL/Race:** Install damper shaft assembly (right leg) and plunger shaft assembly (left leg) through the bottom of the upper tube. Re-install the retaining ring in the upper tube.
Judy C/XC: Install the damper shaft assembly (right leg) and plunger shaft assembly (left leg) through the top of the upper tube.
14. Re-install the springs, All Travel spacers, and lightly tighten the top caps.

INSTALL LOWER TUBE ASSEMBLY (FIG. 10)

15. Judy SL/Race- Slide cleaned XXX seal and foam filter onto upper tubes.
16. Carefully slide the lower tube assembly onto the upper tubes.

NOTE FOR JUDY C/XC: USE EXTREME CARE NOT TO DAMAGE XXX SEAL.

17. Slide lower tube assembly completely onto the upper tubes.
18. Install lower shaft bolts and torque to 60 in-lb.

REFILL FLUIDS (FIGS. 11-12)

19. Remove the top caps and coil springs.
20. Extend the fork and fill the right leg with 130 cc* RockShox 5 wt. oil (10 or 15 wt optional).
21. Fill the left leg with 30 cc 5 wt. oil.
22. Install coil springs and top caps.
23. Torque top caps to 40 in-lb.
24. **Judy XC/SL/Race Only:** Install damper adjuster knob
Judy SL/Race Only: Install foam ring and XXX seal, pressing the XXX seal flush with the lower leg assembly.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

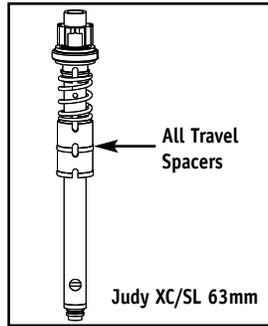


Fig. 7

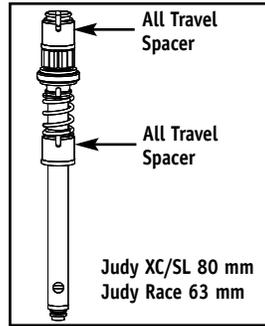


Fig. 8

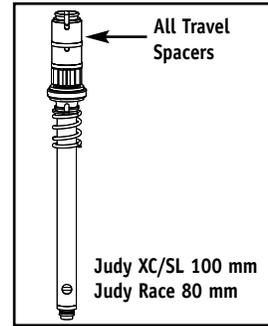


Fig. 9



Fig. 10



Fig. 11



Fig. 12

WARRANTY

RockShox, Inc. warrants its products for a period of one year from original date of purchase to be free from defects in materials or workmanship. Any RockShox product that is returned to the factory and is found by RockShox to be defective in materials or workmanship will be repaired or replaced at the option of RockShox, Inc. This warranty is the sole and exclusive remedy. RockShox shall not be held liable for any indirect, special, or consequential damages.

The warranty does not apply to products which have not been properly installed and adjusted according to RockShox installation instructions. The warranty does not cover any product that has been subject to misuse or whose serial number has been altered, defaced or removed. This warranty does not cover paint damage or modifications to the product. Proof of purchase is required.

Warranty Repair

If for any reason it should be necessary to have warranty work done, return the product to the place of purchase. In the USA, Dealers should call for a Return Authorization number (RA#) prior to returning product.

Products returned for inspection must be sent freight prepaid and with proof of purchase to:

RockShox, Inc.
1610 Garden of the Gods
Colorado Spring, CO 80907

For more technical information, visit our website at www.rockshox.com. For toll-free technical support in the USA, call 1.800.677.7177. Customers in countries other than the USA should contact their local dealer or distributor.

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