Owner's Manual

'98 INDY S, INDY C,INDY XC, AND INDY SL MODELS

ROCK SHOX®

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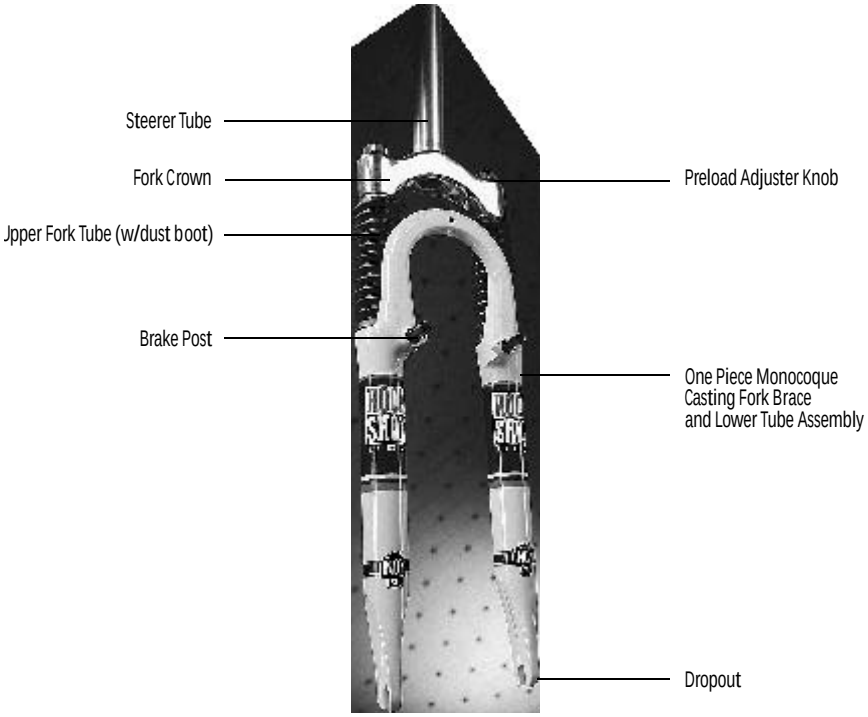
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ROCK SHOX®

Congratulations! You have purchased the best in mountain bike suspension. RockShox forks are made of lightweight, high-strength materials in state-of-the-art manufacturing processes. RockShox forks are designed to balance high performance with ease of maintenance. This manual contains important information about safe installation, operation, and maintenance of your suspension fork. We urge you to read it carefully, become familiar with its components, and follow our recommendations to help make your mountain bike experience enjoyable and trouble free.



INDY Features

- True "One-Piece" lower tube assembly
- Improved Type 2 Spring system,gives lively action of a coil spring and lightweight progressiveness of an elastomer. Very easy to tune for different riders. Available on all forks except the INDY S.
- Unique "Resi-wiper Seal" cleans and lubricates the upper fork tubes
- Easton tapered aluminum upper tubes (SL).Optimized for strength and stiffness
- Increased slider overlap provides smoother performance
- Super stiff alloy crown
- Oil bath* lubrication system

Standard Equipment for Aftermarket INDY Forks Includes:

48mm travel version for INDY S (hanger only)
- (1) medium elastomer spring - assembled in the fork

60mm travel version for Indy C
- (2) medium coil springs (110#)- assembled in the fork
- (2) medium spring rate adjusters (black) - assembled in the fork
- (2) soft spring rate adjusters (beige)
- (2) firm spring rate adjusters (gray)
- (1) bolt-on hanger kit

72mm travel version for Indy XC/SL
- (2) medium coil springs (110#)- assembled in the fork
- (2) soft spring rate adjusters (beige) - assembled in the fork
- (2) medium spring rate adjusters (black)
- (2) firm spring rate adjusters (gray)
- (1) bolt-on hanger kit

Optional Equipment

Bolt-on Hanger for all INDY and JUDY '98 model hangerless forks.

Coil Spring Sets - soft, medium and firm

72mm Long Travel Kit, INDY XC/SL

INDY Elastomer Kits

INDY Spring Rate Adjuster Kits

INDY MCU kits

INTENDED USE

he INDY is designed for off-road use, including fire roads, double track and single track. It is not intended to e raced downhill.

CONSUMER SAFETY INFORMATION

IDING A BIKE ISDANGEROUS. NOT PROPERLY MAINTAININGORINSPECTING YOURBIKEIS EVEN MOREDANGEROUS. IT'S ALSO ANGEROUSNOT TO READTHESEINSTRUCTIONS. SO, IF YOUUSEOURSTUFF, DON'T BE A DUMMY—READTHEINSTRUCTIONS.

. Brakes must be properly installed and adjusted. If the brakes don't work properly the rider could suffer serious and/or fatal injuries.

. This fork is only intended and approved for use with cantilever-type brakes mounted to the existing mounting posts. Forks with hangerless style braces were designed for 'V' type 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. Do not use disc-type brakes mounted to the outer lower tube. The lower tubes were not designed to sustain the stresses such brakes could place on them, and structural failure to the fork may result if any devices or type of brake other than a cantilever are mounted on the fork. Structural failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.

. 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 front wheel is 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 wheel 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 International Distributor list by country on Page 21). A fork leg or drop-out failure could result in loss of control of the bicycle with possible serious and/or fatal injuries.

. If the fork makes metallic topping out sounds, stop riding the bicycle immediately and have the fork inspected or call RockShox. Continuing to ride with the fork in this condition could result in the loss of control of the bicycle with possible serious and/or fatal injuries.

. Always use genuine RockShox parts. Use of non-RockShox after-market replacement parts voids the warranty and could cause structural failure to the fork, which may result in loss of control of the bicycle with possible serious and/or fatal injuries.

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

Installation Instructions

IT IS EXTREMELY IMPORTANT THAT YOUR ROCKSHOX INDY FORK IS INSTALLED CORRECTLY BY A QUALIFIED TECHNICIAN WITH PROPER TOOLS. IMPROPERLY INSTALLEDFORKSAREEXTREMELY DANGEROUSAND CANRESULT INSEVEREINJURIES.

1. Remove the existing fork and lower headset race from the bicycle. Measure the length of the fork steerer tube against the length of the RockShox steerer tube to determine whether it may need cutting to the proper length (on threadless steerer/Aheadset design). On threadless steerers (Aheadset design), make sure there is sufficient length to properly clamp the stem (Refer to stem manufacturer's instructions).

IMPORTANT: DO NOT ADDTHREADS TO ROCKSHOX STEERERS. THE STEERERTUBECR OWN ASSEMBLY IS A ONE-TIMEPRESS FIT. REPLACEMENT OF THE ASSEMBLY MUST BE DONE TO CHANGE THE LENGTH, DIAMETER, OR HEADSET TYPE (THREADED OR THREADLESS). DO NOT REMOVE OR REPLACETHE STEERER TUBE, ASTHIS COULD RESULT IN LOSS OF CONTROL OFTHE BICYCLE WITHPOSSIBLESERIOUSAND /OR FATALINJURIES.

2. Install the headset race (Ø 26.4mm for 1"steerers) firmly against the top of the fork crown. Install the fork assembly on the bike, making sure there is sufficient threads to properly lock the headset in place. On threadless steerers (Aheadset design), make sure there is sufficient length to properly clamp the stem (refer to stem manufacturers instructions). Adjust the headset so you feel no play or drag.
3. Install the brakes according to the manufacturer's instructions and adjust the brake pads properly. Use the fork only with cantilever-type brakes mounted to the existing mounting posts.
4. On threaded steerers, insert the stem to a minimum depth according to CPSC and JIS standards. The stem must be inserted to a minimum engaging length not less than 2.5 times the stem diameter from the lowest end of the stem (not wedge, see Fig. 1).

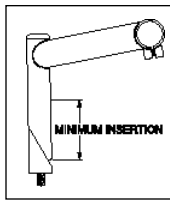


Fig. 1

5. Fit a brake cable to the RockShox fork brace mount. Forks with hangerless style braces were designed for 'V'-type 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 cable through the stem or any other mounts or cable stops. The cable should make a direct route from the brake lever to the RockShox fork brace mount and be able to freely move up and down with the suspension movement. It may be necessary to install a whole new cable.

IMPORTANT: THEDISTANCE FROM THE TOPOFTHE BRAKE CABLE HANGER TO THE BOTTOM OF THEBRAKE CABLE HOUSING STOP MUST BE A MINIMUM OF 12MM WITH THE BRAKES APPLIED. AN IMPROPERLY INSTALLED FRONT BRAKE CABLE COULD RESULT IN LOSSOF CONTROLOFTHEBICYCLEWITHPOSSIBLESERIOUSAND /OR FATALINJURIES.

6. Adjust the front wheel quick release to clear the dropout counter bore. The quick release nut must be tightened after the wheel is properly seated into the dropout counter bore. Make sure four or more threads are engaged in the quick release nut with the release adjusted to the lock. Orient the quick release lever in front of and parallel to the lower tube in the locked position.
7. The INDY forks are designed to use a maximum tire size of 2.2"wide or 335mm radius. After installing the fork or fitting a new tire make sure to check the tire clearance. Check tire size whenever you change tires. To do this, remove the spring stack (see instructions on page 6, "Overall Spring Rate Adjustment") and compress the fork completely to make sure at least 5mm of clearance exist between the top of the tire and the bottom of the crown. Using less than 5mm of clearance will cause the tire to jam against the crown when the fork is fully compressed. The upper tubes must always be engaged in the crown and must not extend above the crown more than 1mm.

Tuning Your INDY Fork

NDY forks can be tuned to your particular weight, riding style and terrain. Our forks are set up, initially, for the 140 o 180lb, all around rider who spends equal amounts of time riding every off-road terrain imaginable. To tailor the ike to your weight and riding style you can make tuning adjustments that suit your specific needs.

When tuning suspension, always make one change at a time and write it down. This takes patience, but allows ou to understand how each change affects your ride. Keeping a record lets you know what changes you have ried that work and suggests what changes you might try. Ask a shop or local riders what they have found vorks well. These resources are typically the best bet, but don't hesitate to call RockShox about specific tuning eeds when necessary. A list of phone numbers is on page 21.

Ride Height and Spring Preload Adjustment

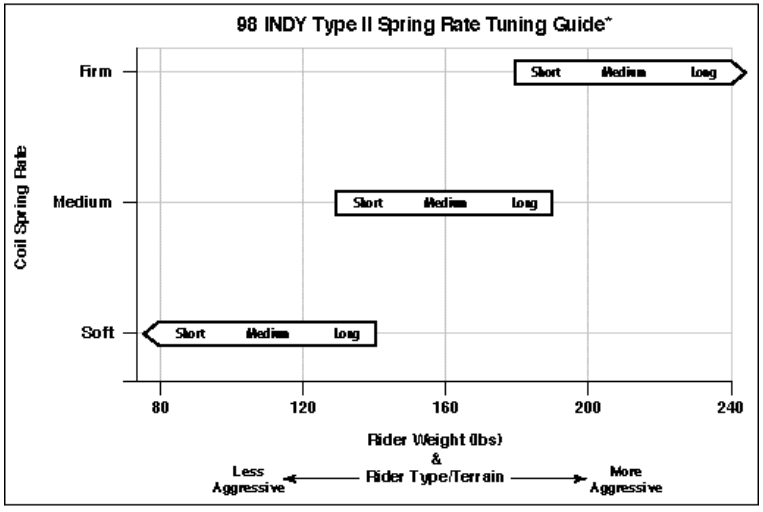
NDY is designed to sag when you are sitting on the bike. This sag allows the front wheel to stay in contact with the ground when braking and cornering over rough or uneven terrain. The optimum settings are 7 to 0mm sag for 72mm travel; 5 to 8mm for 60mm travel; and 3 to 5 mm for 48mm of travel.

hanging the preload alters the sag and firmness of the initial fork movement. To measure sag, install a zip tie n the upper tube so that it is flush against the Resi-wiper seal, sit on the bike with normal riding apparel, hen step off your bike and measure the bottom of the zip tie to the top of the wiper. This measurement is the mount of sag. For example, heavier more aggressive riders need more spring preload to maintain proper ride eight and allow more of the fork's travel to be used during bump impact.

o Change Preload*: The top cap adjustment knob on each leg adjusts the sag of the fork (on the preload and n the spring stack). When the adjustment knob is turned full clockwise, the fork will sag the least and be the rmest. Turning the adjustment knob full counterclockwise makes the fork sag the most and be the softest.

The preload adjustment for the INDY S is achieved by adjusting the preload knob on left leg only.

Quick Tip: right and left side is determined when you are straddling the bicycle frame facing forward.



Tuning Guide Notes

a.) The preceding chart is intended as a tuning GUIDE ONLY. Additional tuning may be necessary to optimize your suspension fork to the particular rider's weight, riding style and terrain.

b.) Aggressive riders on aggressive terrain may need to adjust the overall spring rate by using an increased rider weight (according to th above chart).

Overall Spring Rate Adjustment (All models except for the INDY S)

You want the fork to occasionally bottom out. If you are bottoming out too often or not using all the available travel then the overall spring rate should be changed. There are two ways to change the overall spring rate one is by changing the coil spring and the other is by changing the spring rate adjuster. Use the following instructions to change the coil spring in each leg.

To Change Coil Springs or Spring Rate Adjusters

1. Unscrew top cap assembly using a 22 or 24mm open-end-wrench or socket.

IMPORTANT: Hold the leg s vertically to avoid loss of oil when the top cap is removed. The INDY contains 10cc (2 teaspoons) of oil to lubricate and resist corrosion.

2. Remove the spring stack assembly (top cap, coil spring, spring rate adjuster, spacer and elastomer). (Fig. 2)
3. Pull the elastomer spacer from the coil spring and top cap.

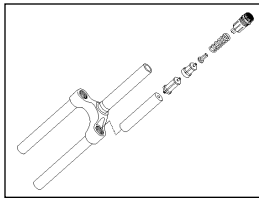


Fig. 2

NOTE: Separation of the plastic spacer(s) in the spring stack is best accomplished by twisting while pulling them apart.

4. Remove the spring rate adjuster from the coil spring spacer. By using a shorter (softer) or longer (firmer) spring rate adjuster than stock, you can change the overall spring rate. You can also change the coil springs to alter the overall spring rate and to more closely meet your needs. To do this, pull the coil spring from the spring rate adjuster and replace it with a coil spring that has a softer or firmer rated coil spring.

   The coil springs are as follows:

Spring Rate	*Color Stripe*
Soft	White
Medium	Yellow
Firm	Green

5. Snap the appropriate spring rate adjuster (supplied with all after market forks) into each coil spring (alternative springs can be purchased as an aftermarket tuning kit).
6. Clean and grease the MCU (INDY XC, SL) or elastomer (INDY C), and reassemble the spring stack assembly.
7. As needed, replace any lost oil with 8wt. RockShox oil. Requirements for each fork are as follows:

Model	*Amount of 8wt. Oil (per fork leg)*
INDY S	10cc (2tsp.)
INDY C	10cc (2tsp.)
INDY XC	15cc (3tsp.)
INDY SL	10cc (2tsp.)

. Install the cleaned and lightly greased spring stack assembly in the upper tubes, starting the top cap threads by hand. Do not cross thread.

. Tighten the top cap until it is flush with the upper tube.

0. Using a 22 or 24mm socket and beam-style torque wrench, torque the top cap assembly to 30 or 40 In-Lb (3.4 - 4.5 Nm).

1. Repeat this procedure on both legs.

AFTER RIDING YOU MAY NEED TO ADJUST THE TOP CAP KNOBS TO OBTAIN THE SAME SAG/PRELOAD FEEL (SEE ABOVE).

OVERALL SPRING RATE ADJUSTMENT FOR THE INDY S

he INDY S does not come equipped with the Type 2 Spring System. This fork uses a solid elastomer spring in he left leg with a secondary bottom spring. The spring rate can be changed on this fork by replacing the single lastomer with one of an alternate spring rate. Alternate elastomer springs can be purchased as an after narket tuning kit (see "Optional Equipment" on page 3).

TO CHANGE THE ELASTOMER:

. Follow steps one and two above ("To Change Coil Springs").

. Then, replace the elastomer with one of a higher or lower spring rate.

. As needed, replace any lost oil with 10cc (two teaspoons) of 8 wt. RockShox oil.

. Complete the installation by following steps 8 through 10 above, "To Change Coil Springs".

Maintenance

NDY forks are designed to be nearly maintenance free. However, as long as moving parts are exposed to the lements, moisture and contamination can reduce performance. To maintain high performance, safety and ong life, periodic maintenance is required. RockShox forks are engineered for easy service to help you keep he fork clean, lubricated and performing like new. Performing maintenance more often is necessary if you ide in extreme conditions.

he recommended tools and intervals for maintenance are listed below.

MPORTANT: ALWAYS WEAR SAFETY GLASSES WHEN WORKING ON ROCKSHOX FORKS.

MAINTENANCE TOOLS

Small tip internal snap ring pliers (INDY SL)

Plastic face mallet

22mm 3/8" drive socket (6 point preferred) or open-end wrench

24mm 3/8" drive socket (6 point preferred) or open-end wrench

3/8" drive ratchet, for socket

Long (6" minimum) 3/8" drive socket extension

Long (4" minimum) 6mm hex 3/8" drive socket (4"+ of hex wrench protruding from socket)

3/8" drive beam style in-lb. torque wrench

Small straight blade screw driver

Safety Glasses

LUBRICANTS AND CLEANERS:

Degreaser

RockShox 8wt oil (or fork oil without seal sweller additives)

Judy Butter or high quality teflon fortified grease (no lithium grease)

IMPORTANT: FOR BEST PERFORMANCE, AVOID LITHIUM-BASED GREASES. SOME LITHIUM GREASES CAN BECOME STICKY, TURN GRAY AND CAKE UP WHEN USED TO LUBRICATE THE BUSHINGS. SMOOTH FORK ACTION IS GREATLY LIMITED AND PERFORMANCE IS GREATLY REDUCED WHEN THIS HAPPENS. IF YOU USE LITHIUM GREASE, CHECK GREASE QUALITY AND CONDITION AT EACH 25-HOUR SERVICE INTERVAL TO ENSURE GREASE IS PERFORMING PROPERLY. TRY USING ANOTHER TYPE OF LUBRICANT IF YOU EXPERIENCE PROBLEMS.

TORQUE TIGHTENING VALUES

Crown Bolts (INDY XC only)	60 in-lb	6.8 Nm
Top Cap Assemblies	30 to 40 in-lb	3.4 to 4.5 Nm
Brake Posts	60 in-lb	6.8 Nm
Plunger Bolts	120 in-lb	13.6 Nm

REGULAR MAINTENANCE INTERVALS

EFORE EVERY RIDE, INSPECT THE FOLLOWING:

- Front wheel and quick release for proper installation and adjustment
- Fork for any obvious damage (crown, brace, upper tubes, lower tubes and dropouts)
- Front brake cable for proper routing
- Front brake pads for proper contact with the rim
- Front brake lever for proper adjustment
- Headset for proper function and adjustment

FTER EVERY RIDE, CLEAN AND DRY THE FORK, TAKING CARE NOT TO GET WATER IN THE FORK AT THE RESI-WIPER.

AFTER EVERY WEEK OR EIGHT HOURS OF RIDING

FTER EVERY WEEKOR EIGHT HOURSOFRIDING , CLEANAND OILTHEUPPERTUBES , RESI-WIPER SEAL ANDCHECK FASTENERS FORPROPER ORQUE. FOLLOW THISPROCEDURE:

- Lift fork boots from lower tubes and wipe Resi-wiper seal and upper tube areas clean. Apply two to three drops of Teflon-fortified oil to the upper tubes at seal (Fig. 3).
- Refit fork boots into Resi-wiper seal groove using small blade screw driver. Engage boot with seal groove at the rear and rotate boot around the upper tube to fully engage its lower edge behind the brace. Hint: compress the boot and apply a small amount of oil to the mating surfaces.
- Check crown bolts and brake posts for proper torque (XC only). Refer to "Torque Tightening Values," page 9.
- Repeat procedure on other leg.

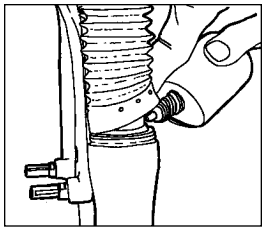


Fig. 3

AFTER EVERY MONTH OR TWENTY-FIVE HOURS OF RIDING

FTER EVERY MONTHOR 25 HOURS OFRIDING, CLEANANDGREASETHESPRING STACKS, BUSHINGSAND RESI-WIPERSEAL. FOLLOW THIS ROCEDURE TO CLEANANDGREASETHESPRINGST ACKS:

- Unscrew the top cap using a 22 or 24mm wrench or socket. Remove the spring stack assembly and clean the stack with degreaser. Wipe the spring stacks dry.

MPORTANT: THESPRINGST ACKFORTHE INDY S ISONLY INTHE LEFTFORK LEG. IT IS STILLNECESSARY TO REMOVEBOTH OP CAPSOFTHE INDY S.

- Inspect the Type 2 spring for compression set (See "Type 2 Spring Stack Specification" table on page 12). Since there is no coil spring for the INDY S inspect the solid elastomer unit for wear or damage. Replace coil springs or elastomer (for INDY S) as needed.
- Apply a thin coat of Judy Butter to the coil spring and elastomer (elastomer only on the INDY S). Add 10cc or 15cc of 8wt. oil in to each leg (see oil specifications on page 7).
- Install assembly in upper tube, starting top cap threads by hand.
- Torque top cap to 30 or 40in-lb. (3.4 to 4.5Nm). Make sure cap is flush with the upper tube.

6. Repeat this procedure on the other leg.

DO THE FOLLOWING TO CLEANAND GREASETHE BUSHINGSAND RESI-WIPER SEALS:

7. Mount the bike in a stand, disconnect the front brake cable, and remove the front wheel. (The brakes do not need to be removed.)
8. Remove the top caps and spring stack assemblies as described above. Compress the fork fully.
9. Insert a long (4"minimum) 6mm hex 3/8"drive socket on 6"long extension in one leg through plunger cap and engage hex completely in broach of plunger bolt. Gently tap on extension with mallet to ensure engagement. Install 3/8"drive ratchet in extension, stabilize one-piece lower tube assembly between your feet and legs, push down while turning counterclockwise to break plunger bolt free.

IMPORTANT: THE PLUNGER BOLTS ARE INSTALLED TO 120 IN.-LB. WITH MEDIUM THREADLOCK COMPOUND. THE FORCI REQUIRED TO LOOSENTHE BOLT ISSIGNIFICANT. THE PLUNGER BOLT HEAD WILL STRIPIF THE 6MM HEX SOCKET IS NOT FULL' ENGAGED. THEBROACHONTHE BOLT ISDEEP TO PREVENTSTRIPPINGWHENTHEHEXISPROPERL Y ENGAGED.

10. Loosen plunger bolt completely and repeat procedure on other lower tube.
11. Slide off one piece lower tube assembly. Remove the fork boots (Fig. 4).
12. Clean the upper tubes and inspect for wear and/or damage (nicks, scratches, or dings).
13. Clean fork boots and slide onto upper tubes.
14. Pour oil out from lower tubes.
15. Clean internals of lower tubes, bushings (two per leg), and Resi-wiper seal. A long 3/8"drive socket extension wrapped in a lint-free rag works well.

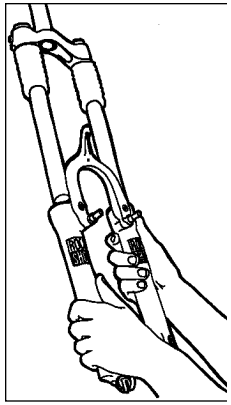


Fig. 4

IMPORTANT: CLEAN LOWER BUSHINGSAPPROXIMATELY 4" FROM TOPOF LOWERTUBES.

16. Apply Judy Butter to the surface of the four bushings, the inside of the lower tubes, and the pocket in each Resi-wiper seal. Use a socket extension wrapped in cloth tape and dipped in Judy Butter to reach inside the lower tubes (Fig. 5). For INDY SL, lube inside of upper tubes from the bottom for a distance of 4.5".

DO NOT USELITHIUM-BASEDGREASE. IT CANREACTWITHTHE COATINGONTHE BUSHINGS.

17. Replace oil inside the lower tubes with the required amounts listed on page 7.

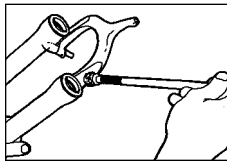


Fig. 5

18. The plunger assembly (plunger, bolt, greased top-out bumper and plunger cap) installs differently for base model INDY, C, XC, and SL. For the INDY S,C,and XC, drop assembly down inside upper tube from the top. For the INDY SL, slide the plunger assembly into upper tube from the bottom along with clear plasti washer and retaining ring to hold it in place. Next, place dry, medium strength locking compound (blue Loc-tite) on threads of plunger bolt and allow to dry. Thread and torque plunger bolt to 120in-lb (13.6Nm) using a torque wrench.
19. Refit fork boot into Resi-wiper seal groove using a small blade screwdriver. Engage boot with double seal groove at the rear and rotate boot around the upper tube to fully engage its lower edge behind the brace.

HINT: COMPRESSINGTHEBOOT ANDAPPLYING A SMALLAMOUNTOFOIL TO THEMATINGSURFACEHELPS.

20. Install spring stack assembly in upper tubes starting top cap threads by hand.

1. Torque top cap to 30 or 40in-lb (3.4 to 4.5Nm).

2. Repeat procedure on other leg.

SERVICE

THE FOLLOWING SECTION CONTAINS DETAILED SERVICE PROCEDURES FOR ALL INDIVIDUAL COMPONENTS OF THE INDY FORK.

CHANGING TRAVEL

The suspension travel on INDY forks can be changed by installing a different travel plunger kit. Follow the procedure titled ***After every month or 25 hours of riding,*** page 10, to remove one-piece lower tube assembly. Exchange standard plungers with longer units included in kit. Also, exchange spring stack parts (coil, spring rate adjuster, spacer and elastomer) with matching parts from the kit. Follow procedures under ***After Every Month or Twenty-Five Hours of Riding,*** page 10, to complete assembly.

IMPORTANT: INDY S, INDY C AND INDY XC PLUNGER ASSEMBLIES INSTALL DIFFERENTLY THAN THOSE USED IN THE INDY SL. SEE "AFTER EVERY MONTH OR TWENTY-FIVE HOURS OF RIDING", PAGE 10, TO COMPLETE THE ASSEMBLY.

TYPE 2 SPRING REPLACEMENT

The Type 2 Spring System in INDY forks provide the lively action of a coil spring and the light weight progressiveness of an MCU spring (For INDY C it is a coil spring combined with a solid elastomer spring). However, overtime, the springs can wear out, compromising performance. This is evident in compression set when the coil spring and MCU are shorter in a resting state than when they were new. Follow the table listed below as a guide to know when to replace the Type 2 Spring system. For removal, installation, cleaning and greasing the Type 2 springs follow the instructions under ***After Every Month or Twenty-Five Hours of Riding,*** (page 10).

TYPE 2 SPRING SYSTEM SPECIFICATION TABLE (ALL MODELS EXCEPT INDY S)

	Optimum (mm)	Replace (mm)
Coil Spring (C, XC, SL)	51 mm	46 mm
MCU (XC, SL)	115 mm	109 mm
Elastomer (INDY S, C)	154 mm	140 mm

INDY FRICTION DAMPER

Both the '98 INDY XC and SL use a friction damper system to enhance performance of the fork. This system includes a plastic friction retainer which contains an o-ring. The o-ring moves in both compression and rebound of the upper tubes. During movement, the o-ring creates friction (drag) on the plunger at the bottom of the fork. This friction is controlled by the design and lubrication of the oil bath system. The friction allows some damping of the spring. The friction is directional (more rebound damping is created than compression damping).

The o-ring is the only part that will see wear in the friction damper system. The o-ring should be replaced during any major service (i.e., bushing replacement) or when the friction damping performance becomes affected.

The o-ring is inside the friction retainer located at the end of each lower tube. The plunger must be removed from the upper tube to access it (see ***After Every Month or Twenty-Five Hours of Riding***). The o-ring can easily be removed from its groove in the friction retainer. Caution should be used when replacing this part to prevent cutting or tearing. (P/N 630-000495-00)

BUSHING REPLACEMENT

The high quality bushings in RockShox forks are designed to last many months of hard riding. The protective boots, a clean fork, routine greasing and maintenance are key to high performance and long bushing life. However, like all moving parts, bushings will eventually wear and need replacement. Increased fore and aft movement of upper tubes in lower tubes (similar to a loose headset) and/or slow action, even after a fresh greasing, signals the need to replace the bushings.

IMPORTANT: THIS SERVICE REQUIRES ROCKSHOX SPECIALTY TOOLS. WE RECOMMEND THIS LEVEL OF SERVICE BE DONE BY A QUALIFIED BIKE SHOP OR MECHANIC FAMILIAR WITH OUR PRODUCTS AND THIS PROCEDURE. BUSHING REPLACEMENT ADDENDA ARE AVAILABLE THROUGH YOUR DEALER OR THROUGH ROCKSHOX DIRECTLY.

Glossary of Terms

Bottoming Out – the condition when all suspension travel has been used up.

Compression Stroke – the "upward" motion of a fork which is moving in response to a bump impact.

Damping Force – the force required to move a shock absorber / damper (general oil) at any given speed.

Forged – a metal forming process which optimizes material structure using very large forces acting on a die mold in which material to formed is placed.

Geometry – Descriptive term for the lengths and angles used in a bicycle design.

Head angle – Angle the steering axis leans back from vertical.

Oil bath – oil reservoir system used for lubricating internal parts in the fork.

One piece – unitized lower leg assembly with both fork legs and fork brace cast as one piece.

Preload – The amount either in pounds or inches, a spring is compressed when fitted to an extended shock absorber.

Rebound – The extension or return direction of the shocks or suspension.

Sag – compression of the suspension caused by the rider's weight.

Spring rate – The amount of force required to deflect a spring a given distance.

Tapered – varying wall thickness of a tube. A design to optimize placement of material, allowing most efficient design considering the loads.

Topping out – the position of the fork at the "top" of the travel, or when the fork is fully extended. The action of complete extension of the fork.

Follow the NORBA Code

I will yield the right of way to other non-motorized recreationalists.

I will use caution when overtaking another and will make my presence be known well in advance.

I will maintain control of my speed at all times.

I will stay on designated trails.

I will not disturb wildlife or livestock.

I will not litter.

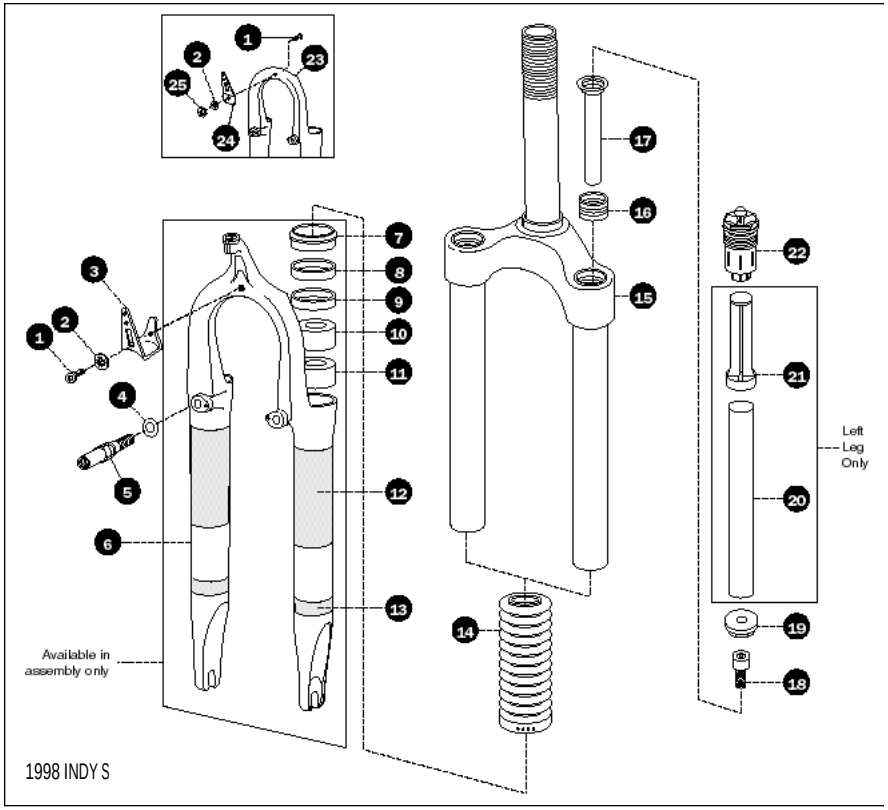
I will respect public and private property.

I will always be self sufficient.

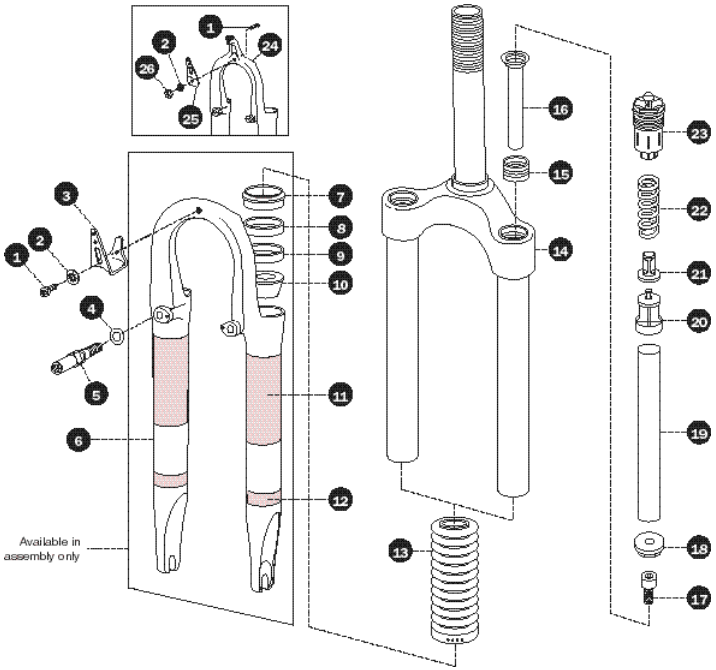
I will not travel solo when bikepacking in remote areas.

I will observe the practice of minimum impact bicycling.

I will always wear a helmet whenever riding.

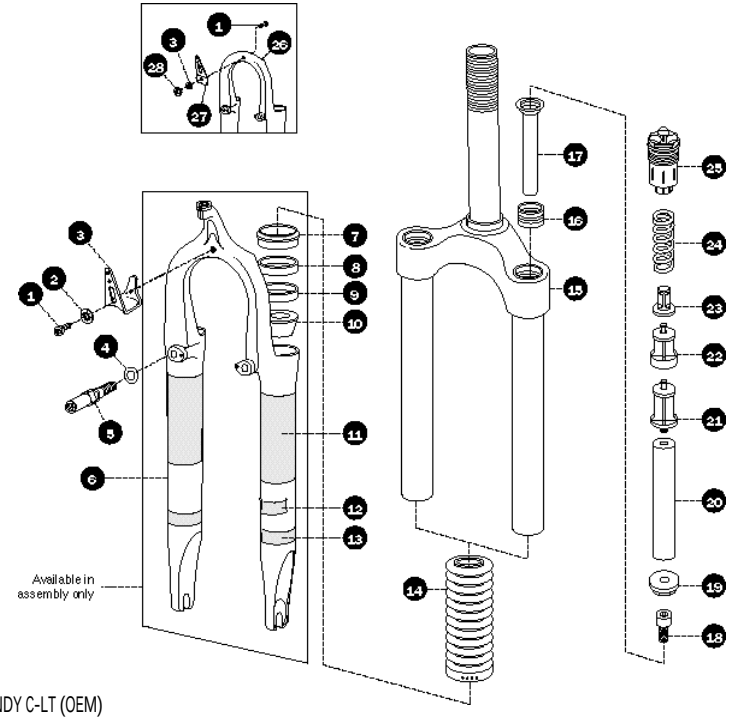


#	Description
1	Reflector Bracket Screw
2	Reflector Bracket Lock Washer
3	Reflector Bracket (Hanger-style)
4	Brake Post Washer
5	Brake Post
6	Lower Tube Assy, Hanger, Black
7	Indy Main Seal
8	Upper Bushing
9	Lower Bushing, 1.0" Slotted
10	Bumper Bottom, Indy S
11	Indy S Travel Spacer
12	Indy S Panel Decal, Black/Grey
13	Indy S Band Decal
14	Fork Boot, Standard Travel
15	Crown/Steerer/Upper Tubes
16	Top Out Bumper
17	Plunger, Std
18	Plunger Bolt
19	Plunger Cap
20	Indy S Compression Bumper (Yellow)
21	Spring Spacer, Indy S
22	Top Cap Assy
23	Lower Tube Assy, Hangerless, Black
24	Reflector Bracket (Hangerless)
25	Reflector Bracket Nut



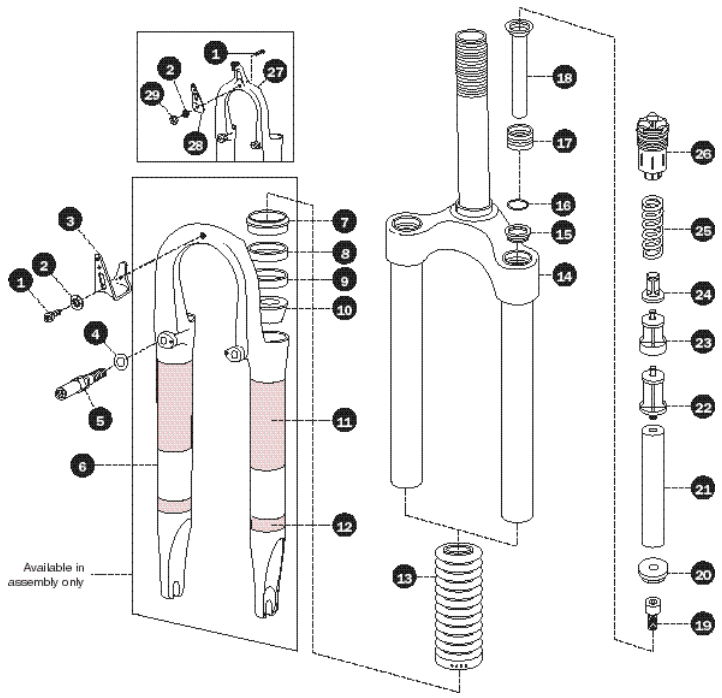
1998 INDY C

#	Description
1	Reflector Bracket Screw
2	Reflector Bracket Lock Washer
3	Reflector Bracket (For Hanger-style Fork Brace)
4	Brake Post Washer
5	Brake Post
6	Lower Tube Assy, Hangerless, Cream
7	Indy Main Seal
8	Upper Bushing
9	Lower Bushing, 1.0" Slotted
10	Bottom Bumper, Indy
11	Indy C Panel Decal
12	Indy C Band Decal
13	Fork Boot
14	Crown/Steerer/Upper Tubes
15	Top Out Bumper
16	Plunger
17	Plunger Bolt
18	Plunger Cap
19	Compression Bumper (Purple)
20	Spacer, Urethane, Indy
21	Spring Rate Adjuste
22	Tuning Spring
23	Top Cap Assy
24	Lower Tube Assy, Hanger, Cream
25	Reflector Bracket (Hangerless)
26	Reflector Bracket Nut



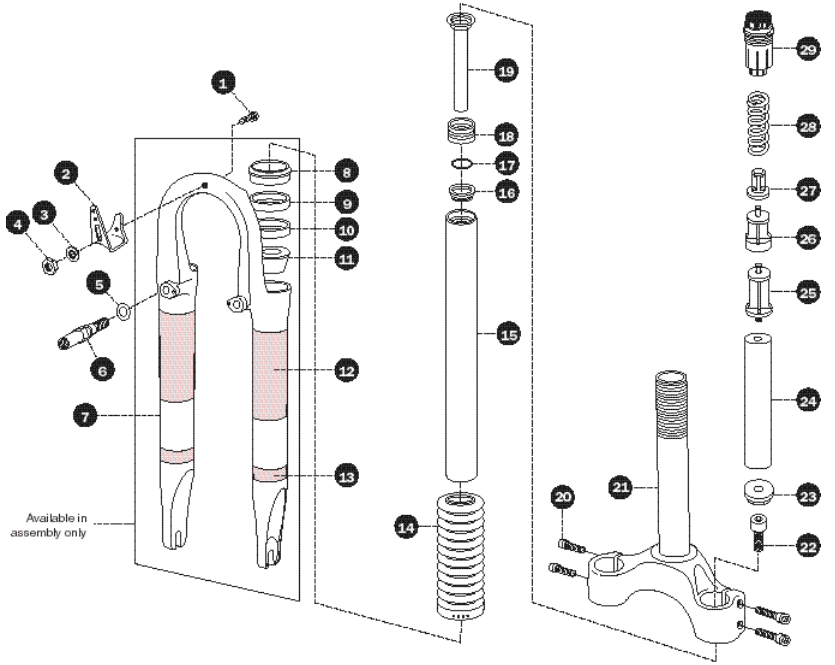
1998 INDY C-LT (OEM)

#	Description
1	Reflector Bracket Screw
2	Reflector Bracket Lock Washer
3	Reflector Bracket (For Hanger-style Fork Brace)
4	Brake Post Washer
5	Brake Post
6	Lower Tube Assy
7	Indy Main Seal
8	Upper Bushing
9	Lower Bushing, 1.0" Slotted
10	Bottom Bumper, Indy
11	Indy C Panel Decal
12	Indy C Band Decal
13	Fork Boot, Long Travel
14	Crown/Steerer/Upper Tubes
15	Top Out Bumper
16	Plunger, Long Travel
17	Plunger Bolt
18	Plunger Cap
19	MCU Bumper
20	Spacer, MCU,Indy
21	Spacer, Urethane, Indy
22	Spring Rate Adjuster
23	Tuning Spring
24	Top Cap Assy
25	Lower Tube Assembly
26	Reflector Bracket (Hangerless)
27	Reflector Bracket Nut



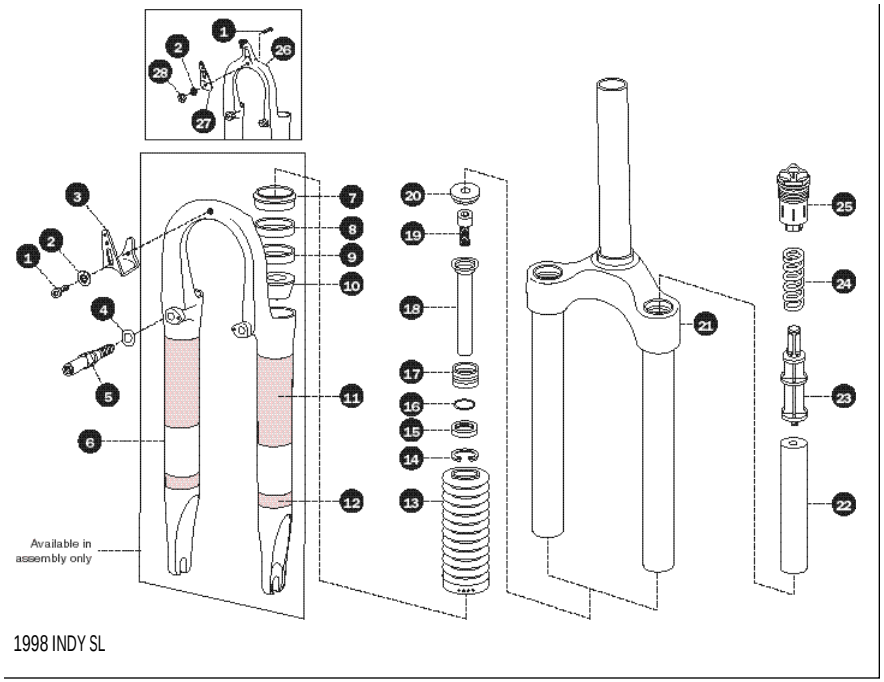
1998 INDY XC (OEM)

#	Description
1	Reflector Bracket Screw
2	Reflector Bracket Lock Washer
3	Reflector Bracket (For Hanger-style Fork Brace)
4	Brake Post Washer
5	Brake Post
6	Lower Tube Assembly
7	Indy Main Seal
8	Upper Bushing
9	Lower Bushing, 1.0" Slotted
10	Bottom Bumper, Indy
11	Indy XC Panel Decal
12	Indy XC Band Decal
13	Fork Boot
14	Crown/Steerer/
15	Friction Damper
16	Friction Damper O-ring
17	Top Out Bumper
18	Plunger
19	Plunger Bolt
20	Plunger Cap
21	MCU Bumper
22	Spacer, MCU,Indy
23	Spacer, Urethane, Indy
24	Spring Rate Adjuster
25	Tuning Spring
26	Top Cap Assy
27	Lower Tube Assembly, Hanger
28	Reflector Bracket (Hangerless)
29	Reflector Bracket Nut



1998 INDY XC (AM)

#	Description
1	Reflector Bracket Screw
2	Reflector Bracket (Hangerless)
3	Reflector Bracket Lock Washer
4	Reflector Bracket Nut
5	Brake Post Washer
6	Brake Post
7	Lower Tube Assembly
8	Indy Main Seal
9	Upper Bushing
10	Lower Bushing, 1.0" Slotted
11	Bottom Bumper, Indy
12	Indy XC Panel Decal
13	Indy XC Band Decal
14	Fork Boot, Long Travel
15	Upper Tube, Butted
16	Friction Damper - Indy XC
17	Friction Damper O-ring
18	Top Out Bumper
19	Plunger, Long Travel
20	Crown Bolt (4 Required)
21	Crown/Steerer
22	Plunger Bolt
23	Plunger Cap
24	MCU Bumper
25	Spacer, MCU,Indy
26	Spacer, Urethane, Indy
27	Spring Rate Adjuster
28	Tuning Spring
29	Top Cap Assy



1998 INDY SL

#	Description
1	Reflector Bracket Screw
2	Reflector Bracket Lock Washer
3	Reflector Bracket (For Hanger-style Fork Brace)
4	Brake Post Washer
5	Brake Post
6	Lower Tube Assembly
7	Indy Main Seal
8	Upper Bushing
9	Lower Bushing, 1.0" Slotted
10	Bottom Bumper, Indy
11	Indy SL Panel Decal
12	Indy SL Band Decal
13	Fork Boot
14	Retaining Ring, Upper Tube
15	Friction Damper - Indy SL
16	Friction Damper - O-ring
17	Top Out Bumper
18	Plunger
19	Plunger Bolt
20	Plunger Cap
21	Crown/Steerer/Upper Tubes
22	MCU Bumper
23	Spring Rate Adjuster
24	Tuning Spring
25	Top Cap Assy Indy SL
26	Lower Tube Assembly, Hangerless
27	Reflector Bracket (Hangerless)
28	Reflector Bracket Nut

Warranty

RockShox, Inc. warrants its forks for a period of one year from original date of purchase to be free from defects in materialsor workmanship. Any RockShox forkthat isreturned to the factory andisfoundby RockShox to bedefectivein materialsor workmanshipwillberepairedorrepl aced at theoptionof RockShox, Inc. This warranty isthesoleexclusive remedy. RockShox shallnot beheldliableforanyindirect , special, or consequentialdamages.

The warranty doesnot apply to forkswhichhavenot beenproperly installedandadjusted according to RockShox installation instructions. The warranty doesnot coveranyforkthat hasbeensubject to misuseorwhoseserialnumberhasbeenaltered defacedorremoved. This warranty doesnot cover paintdamageormodific ations to forks. Proofofpurchaseisrequired .

Warranty repair

If foranyreasonitshouldbenecessar y to have warranty workdone, returnthefork to theplaceofpurchase. In the USA dealers should call for a Return Authorization number (RA#) prior to returning the product. Products returned for inspectionmustbesentfreightprepaid to:

RockShox, Inc. 408.433.5815
2713 N. First Street FAX 408.953.7569
San Jose, CA 95131 Toll-Free Technical Support inthe US 800.694.0668

Customersin countries otherthanthe USA should contactttheirdealeror localdistributor.

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International Distributor List

Argentina
Broni S.A.
Phone: 54 12 92 3000
FAX: 54 12 92 4453

Australia
Bell Sports Australia
Phone: 61 2 9700 1655
FAX: 61 2 9700 1656

Austria
Barisitz-Austria
Phone: 43 512 39 22 87
FAX: 43 512 39 45 19

Belgium
VERTEX Cycle Systems BV
Phone: 31 23 57 18184
FAX: 31 23 57 18606

Brazil
Pacific Bicycle Company
Phone: 55 11 816 2249
FAX: 55 11 816 0544

Canada
Bell Sports Canada
Phone: 514 378 0452
FAX: 514 378 9934

Chile
Bicicletas Belda Limitada
Phone: 56 32 881799
FAX: 56 32 978799

Colombia
Disandina Ltda.
Phone:5763 375597/375599
FAX: 5763 372165

Costa Rica
SPC Bicicletas
Phone: 506 296 3383
FAX: 506 289 7013

Czech Republic
Velo GEPARD Ltd.
Phone: 422 3299251
FAX: 422 24316189

Denmark
ETTOL
Phone: 45 8699 2000
FAX: 45 8699 2038

Ecuador
Bici Sport
Phone 5932 253691
FAX: 5932 253691

Estonia
Estonia Unidream
Phone 372 223 2976
FAX: 372 223 2976

Finland
Mr. Cool OY
Phone: 358 9 320817
FAX: 358 9 320609

France
Philamy S.A.
Phone: 33 492 87 3157
FAX: 33 492 72 6070

ermany
Sport Import GmbH
Phone: 49 44 05 9280 0
FAX: 49 44 05 9280 49

reece
Gatsoulis
Phone: 30 12512 779
FAX: 30 12533 960

uatemala
BYS Importaciones S.A.
Phone: 502 299 4856
FAX: 502 299 4855

olland
VERTEX Cycle Systems BV
Phone: 31 23 57 18184
FAX: 31 23 57 18606

ong Kong
Flying Ball Bicycle Company
Phone: 852 23813661
FAX: 852 23974406

ungary
Bicitec S.R.L
Phone 361 131 3184
FAX: 361 131 3184

taly
Motorquality
Phone: 39 2 249511
FAX: 39 2 22476420

apan
Yoshigai Corporation
Phone: 81 672 17051
FAX: 81 672 42062

uxumbourg
VERTEX Cycle Systems BV
Phone: 31 23 57 18184
FAX: 31 23 57 18606

lexico
Grupo Scandi
Phone: 52 52 81 14 39
FAX: 52 52 81 27 21

lew Zealand
W.H. Whorrall & Co. Ltd.
Phone: 64 9 6303901
FAX: 64 9 6303839

Norway
Foss Sykler
Phone: 47 22382636
FAX: 47 22382644

Panama
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FAX: 507 261 9123

Poland
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FAX: 48 22 645 14 36

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Bicimax
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Sportex
Phone: 7 095 288 68 88
FAX: 7 095 288 68 88

St. Maarten
Tri-Sport International
Phone: 5995 43462
FAX: 5995 43928

Singapore
Treknology Bikes 3
Phone: 65 455 0551
FAX: 65 441 2967

Slovakia
Velo GEPARD Ltd.
Phone: 422 3299251
FAX: 422 24316189

Slovenia
Proloco Trade
Phone: 386 64 224090
FAX: 386 64 212169

South Africa
Coolheat (SA) (PTY) Ltd.
Phone: 27 11 493 7430
FAX: 27 13 493 1794

Spain
K. Motor Dealer S.L.
Phone: 34 1 637 70 97
FAX: 34 1 637 72 64

Sweden
Hallman Sports
Phone: 46 18 56 16 00
FAX: 46 18 13 24 26

Switzerland
MTB Cycletech AG
Phone: 41 31 972 2564
FAX: 41 31 972 3566

Taiwan
Biketech Co. Ltd.
Phone: 886 2 694 5808
FAX: 886 2 694 6133

Thailand
Probike Co. Ltd.
Phone: 662 254 1077
FAX: 662 254 1078

Turkey
EBSAT
Phone 90 212 514 0525
FAX: 90 212 511 5171

United Kingdom
Caratti Sport Ltd.
Phone: 44 1 454 201700
FAX: 44 1 454 202600

Uruguay
International Sporte
Phone: 5982 782498
FAX: 5982 622532

Venezuela
Bike Sports
Phone 582 751 9709
FAX: 582 751 9730

Indy Owner

ROCK SHOX