



IMPORTANT: ALL FOES FRAMES ARE INTENDED TO BE ASSEMBLED BY A FOES DEALER OR EXPERIENCED BIKE SHOP ONLY. FOR YOUR SAFETY (AND OURS) THERE IS NO WARRANTY ON FOES FRAMES WHICH ARE NOT ASSEMBLED BY, OR INSPECTED BY, A FOES DEALER OR BIKE SHOP. SEE WARRANTY PAGE FOR DETAILS.

Common questions:

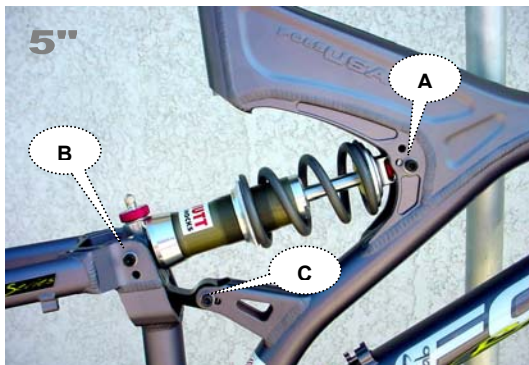
- What size bottom bracket spindle do I use? How do I install it?
- How do I route the housings/brake lines?
- How do I install the headset?

Need answers? Please see your Foes dealer, local shop, or our dealer listings at www.foesracing.com.

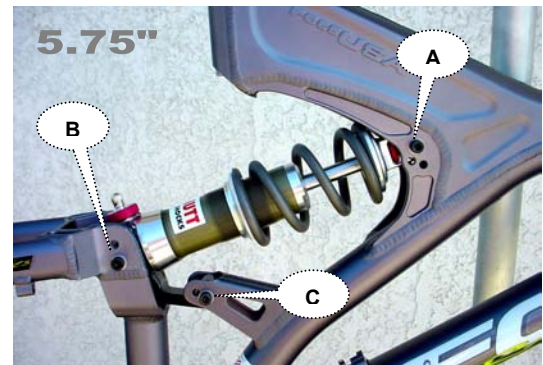
Foes Technical Support: (626) 683-8368 M-F, 9am – 4 pm PST ~or~ by e-mail: info@foesracing.com

We cannot stress enough, building a pro level frame is not an endeavor recommended for home mechanics. Special tools and skills are a must, and the dealer can answer 99% of all questions related to the complete build of a high-end frame. Due to this fact, this manual covers only basic information.

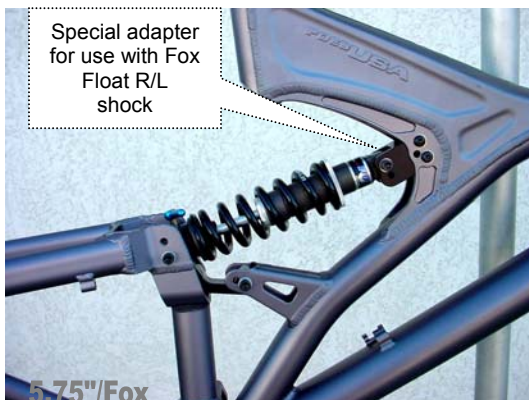
ADJUSTABLE TRAVEL (FXR only):



5" Proper shock mounting for 5" travel. ONLY use LOWER hole in main frame (A), UPPER hole in swingarm (B), & 1ST Swing-link position (C) as pictured. Always change ALL 3 points to increase or decrease travel.



5.75" Proper shock mounting for 5.75" travel. ONLY use UPPER hole in main frame (A), LOWER hole in swingarm (B), & 2ND Swing-link position (C) as pictured. Using 1ST Swing-link position with the shock in 5.75" mode WILL cause damage.



Special adapter for use with Fox Float R/L shock

Using the FXR with the Fox Float R/L shock

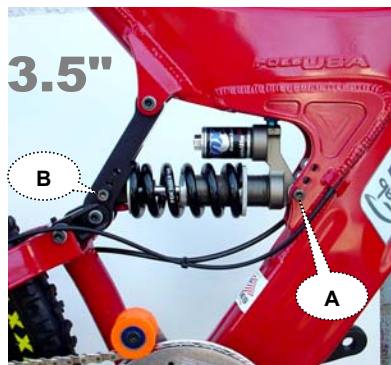
Fox shocks are made in predetermined eye-to-eye lengths, so an adapter is used to fit one to the FXR (see picture at left). Shock mounting positions are the same as above, the picture at left showing the long travel (5.75") mode.

Note: Changing travel positions may require changing spring rates and compression/rebound damping settings. This may mean purchasing a different spring than we ship with the frame.

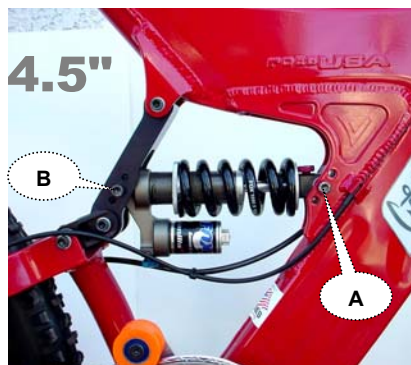
IMPORTANT DISCLAIMER

Mounting the FXR's shock in any other manner than described here may result in damage to the frame or shock NOT covered under our limited warranty.

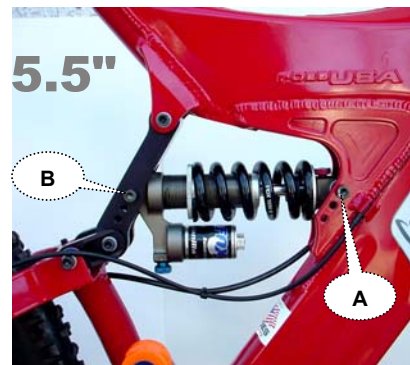
ADJUSTABLE TRAVEL (Zig-Zag only):



Proper shock mounting for 3.5" travel. ONLY use LOWER position in main frame (A) and LOWER position in swingarm (B) as pictured. Make sure shock reservoir is facing up as shown.



Proper shock mounting for 4.5" travel. ONLY use MIDDLE position in main frame (A) and MIDDLE position in swingarm (B) as pictured. Make sure shock reservoir is facing down as shown.



Proper shock mounting for 5.5" travel. ONLY use TOP position in main frame (A) and TOP position in swingarm (B) as pictured. Make sure shock reservoir is facing down as shown.

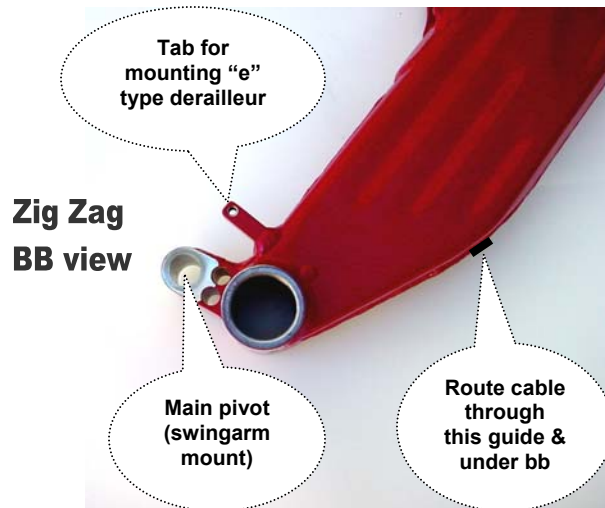
Note: Changing travel positions may require changing spring rates and compression/rebound damping settings. This may mean purchasing a different spring than we ship with the frame.

IMPORTANT DISCLAIMER

Mounting the Zig-Zag's shock in any other manner than described here may result in damage to the frame or shock NOT covered under our limited warranty.

Mounting a front derailleur to the Zig-Zag frame

Although the Zig-Zag is intended for dual slalom or mountain-cross use, it is possible to mount a front derailleur. In addition to the normal shifter housing from shifter to 1st cable guide, two additional cable guides (one for under the bottom bracket shell is included with frame manual, the other is installed in the frame at the factory about 2/3 of the way down the underside of the frame) are used to accomplish this. Only Shimano "E" type derailleur, XTR/XT/LX etc., bottom pull, are compatible (pictured below).



FRAME TECHNICAL SPECIFICATIONS

Model	Size	HT length	HT angle	ST angle	BB ht	C-stay length	Est. Wheelbase	TT (actual)	TT (effective)	Seatpost
FXR	S	4.0"	68.50	*65	13.5"	16.8"	42.8"	20.0"	21.8"	27.2
	M	4.5"	68.50	*65	13.5"	16.8"	43.8"	21.3"	22.8"	27.2
	L	5.0"	68.50	*65	13.5"	16.8"	44.8"	22.7"	23.8"	27.2

FXC	S	4.0"	70.50	*65	12.5"	16.8"	41.4"	20.4"	21.8"	27.2
	M	4.5"	70.50	*65	12.5"	16.8"	42.4"	21.8"	22.9"	27.2
	L	5.0"	70.50	*65	12.5"	16.8"	43.4"	23.5"	24.0"	27.2

Zig Zag	S	4.0"	68.00	53.3	13.5"	16.8"	42.4"	20.0"	21.8"	31.6
	M	4.5"	68.00	53.3	13.5"	16.8"	43.4"	21.3"	22.8"	31.6
	L	5.0"	68.00	53.3	13.5"	16.8"	44.4"	22.7"	23.8"	31.6

**Seat tube angle is actual. Effective angle on both FXC and FXR is similar to standard 73 degree when set up and sized correctly-see your local dealer for assistance in sizing.*



Curnutt XTD shocks for FXR models

Unhappy with mass-produced shocks? If you didn't order your frame with one, the groundbreaking XTD shock is now available for FXR models. This shock is the basis for all other "position sensitive" or "platform damped" shocks. We produce them in small quantities with intensive quality control, and they are rebuildable by any qualified bike mechanic! Available from your Foes dealer now.

XTD shock, with steel spring - U.S. MSRP \$549 -with titanium spring \$699

Crash Replacement Program

Should your Foes frame ever become damaged in such a way that warranty is denied, you are eligible for this program. This program is intended to, at the sole discretion of Foes, provide for a one-time low cost frame replacement when damage or failure is deemed to be caused by accident, crash, abuse, or any other non-standard use (see warranty on next page). **Pricing is 50% off** the current Foes U.S. Suggested Retail Price (MSRP). This program is available only to the original retail purchaser, **for a period of five (5) years** from the date of purchase on FXC, FXR, and Zig Zag models. Proof of purchase is mandatory so save those receipts! Contact your Foes dealer to utilize this program.

Note: A two (2) year limit is imposed on all models when used for racing purposes.

Foes Limited Warranty 2003

Foes Fabrications, Inc. (Foes) DBA Foes Racing, a California corporation located at 62 N. Sierra Madre Blvd., Pasadena, California 91107, makes the following Limited Warranty concerning Foes frames & forks:

LIMITED WARRANTY TWO (2) YEAR WARRANTY ON FRAMES

Subject to the following limitations, terms and conditions, Foes warrants to the original owner of each new Foes frame that this bicycle when new is free of defective materials and workmanship. This warranty shall expire two (2) years from the date of the original purchase from a retail bicycle outlet and is conditioned upon the bicycle being operated under normal conditions and use, and properly maintained. This warranty is void if the frame was not purchased from new or was not assembled by a retail bicycle outlet. The supplied rear shock has warranty coverage offered by the specific manufacturer, please check the supplied shock owners manual for information regarding these warranties or check with you local retail bicycle outlet.

LIMITED ONE (1) YEAR WARRANTY ON FORKS

Also subject to the following limitations, terms and conditions, Foes warrants to the original owner of each new Foes F1 fork that the suspension related equipment (including bushings, seals and fasteners) when new are free of defective materials or workmanship. This warranty shall expire one (1) year from the date of the original purchase from a retail bicycle outlet and is conditioned upon the fork being operated under normal conditions and use, and properly maintained. This warranty is void if the fork was not purchased new from or not properly installed by a retail bicycle outlet.

ADDITIONAL CONDITIONS

This Limited Warranty is made only to the original owner of this new Foes frame or fork purchased from a bicycle retail outlet, and it shall remain in force only as long as the original owner retains ownership of the Foes frame or fork. This Limited Warranty is not transferable. In order to exercise your rights under this Limited Warranty, the frame or fork must be presented to a retail bicycle outlet, together with a receipt, bill of sale or other appropriate written proof of purchase which identifies the frame or fork by serial number. Should this frame or fork be determined by Foes to be covered by this warranty, it will be repaired or replaced, at Foes' sole option, which will be conclusive and binding. The original owner shall pay all labor charges connected with repair or replacement of all parts. Under no circumstances does this Limited Warranty include the cost of travel or shipment to and from a retail bicycle outlet. Such costs, if any, shall be borne by the original owner. This Limited Warranty does not apply to normal wear and tear, nor to claimed defects, malfunctions or failures that result from abuse, neglect, improper assembly or installation, improper maintenance, alteration, collision, crash or misuse. This frame or fork has not been designed, engineered, distributed, manufactured, or retailed for uses in trick riding, ramp riding, jumping, aggressive riding, riding on severe terrain, riding in severe climates, riding with heavy loads, commercial activities, or any similar activities; such uses may damage the frame or fork, can cause serious injury to the rider, and in all cases will void this warranty.

USEFUL PRODUCT LIFE CYCLE

Every Foes frame and fork has a useful product life cycle. The length of that useful product life cycle will vary with the construction and materials of the frame or fork, the maintenance and care the frame or fork receives over its useful product life cycle, and the type and amount of use the frame or fork is subject to. Uses in competitive events, trick riding, ramp riding, jumping, aggressive riding, riding on severe terrain, riding in severe climates, riding with heavy loads, commercial activities and other types of non-standard use can dramatically shorten the useful life cycle of a Foes frame or fork. Any one or a combination of these conditions may result in an unpredictable failure of a Foes frame or fork that would not be covered by this warranty. ALL FOES FRAMES AND FORKS SHOULD BE PERIODICALLY CHECKED BY A RETAIL BICYCLE OUTLET OR A FOES DEALER, for indicators of stress and/or potential failure, including cracks, deformation, corrosion, paint peeling, dents, and any other indicators of potential problems, inappropriate use or abuse. These are important safety checks and may be very important to help prevent accidents, bodily injury to the rider and shortened life cycle of the Foes Frame or Fork. THIS IS AN INTEGRATED AND FINAL STATEMENT OF FOES LIMITED WARRANTY. FOES DOES NOT AUTHORIZE OR ALLOW ANYONE, INCLUDING FOES DEALERS OR RETAIL BICYCLE OUTLETS, TO EXTEND ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, FOR FOES. NO OTHER REPRESENTATION, AND NO STATEMENT OF ANYONE BUT FOES, INCLUDING A DEMONSTRATION OF ANY KIND BY ANYONE SHALL CREATE ANY WARRANTY REGARDING THIS FRAME OR FORK. ALL OF THE REMEDIES AVAILABLE TO THE ORIGINAL OWNER ARE STATED HEREIN. IT IS AGREED THAT FOES LIABILITY UNDER THIS LIMITED WARRANTY SHALL BE NO GREATER THAN THE ORIGINAL PURCHASE PRICE AND IN NO EVENT SHALL FOES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

DISCLAIMER

All other remedies, obligations, liabilities, rights, warranties, expressed or implied, arising from law or otherwise, including but not limited to, any claimed implied warranty of merchantability, any claimed implied warranty arising from course of performance, course of dealing or usage of trade, and any claimed implied warranty of fitness, are disclaimed by Foes and waived by the original owner. Some states, jurisdictions, countries, provinces, do not allow some or all of the limitations set herein, or the exclusion or limitation of incidental or consequential damages. If any provision is found unenforceable, only that provision shall be stricken and all others shall apply. This limited warranty does provide the original owner with certain legal rights and recourse and the original owner may possess other rights or recourse, depending on the state, jurisdiction, country or province.

THIS WARRANTY SHALL BE CONSIDERED NULL AND VOID IF THE FOES PRODUCT IN QUESTION WAS NOT INSTALLED, BUILT, ASSEMBLED, OR INSPECTED BY AN AUTHORIZED FOES DEALER OR QUALIFIED PROFESSIONAL BIKE SHOP. PROOF OF THIS MUST BE PROVIDED BY THE FOES PRODUCT OWNER UPON REQUEST FROM FOES. FAILURE TO PRODUCE ACCEPTABLE PROOF, I.E. SHOP RECEIPT, WORK ORDER, OR SIGNED STATEMENT FROM A QUALIFIED BICYCLE PROFESSIONAL, WILL RENDER THE WARRANTY VOID.

WARNING: BICYCLE RIDING CAN BE HAZARDOUS TO YOUR HEALTH, EVEN FATAL! BE SURE TO ALWAYS WEAR A HELMET AND PROPER PROTECTIVE CLOTHING.