

Table of Contents

EVO: Suspension - Sub-01C	3
 1994 XLH Front Forks Disassembled - Measurements w/Pictures	3

[Go To Technical Menu](#)

EVO: Suspension - Sub-01C

[Back to](#)['Front Fork Info'](#)

1994 XLH Front Forks Disassembled - Measurements w/Pictures

The following information was collected when the stock 1994 Front Forks were disassembled to be cleaned and the internal springs were replaced with a set of Progressive-brand progressively wound springs.

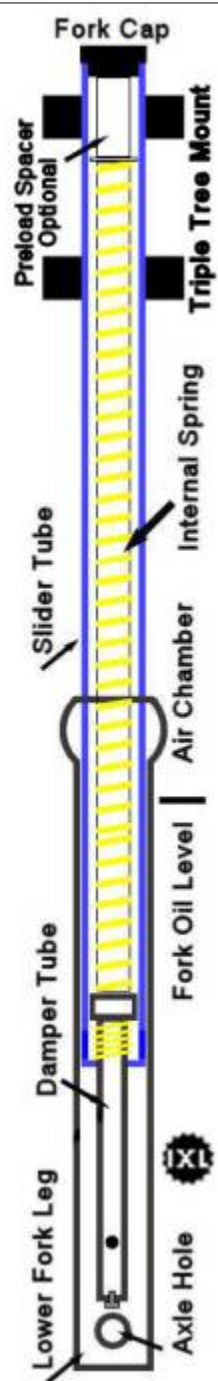
The following tips from the XLF threads were especially helpful:

- 1) Loosen (not remove) the Damper Bolts (6mm Allen Key) while the forks are still on the bike & under spring tension
- 2) Remove the Fork Caps using a 1-3/8" Socket (or 35mm).
- 3) Align the fork cap on the slider tube (no springs installed) and mark the exact point (on both the cap and the slider)\
.... where the threads begin to engage - This tip was extremely helpful in getting the cap back on while compressing the spring.
- 4) Use a 1-1/2" PVC coupling for the fork seal driver (coupling center spline removed)

Actual Measurements from a 1994 Std Model Sportster Front Fork

Slider Tube Length (45395-92)	24.250in
Slider Outside Diameter	1.532in
Leg Length (45921-87 -or- 45923-87)	16.375in
Leg Asbl'd Length- To Top of Cap	17.125in
Spring Length (45376-94)	21.500in
Spring Outside Diameter	1.190in
Spring - Number of Coils	53
Spring Coil Wire Diameter	.180in
Spring Single Rate - Gap	.242in
Spring Protrudes out of Slider (Fork Ext'd) (no preload spacer used)	1.375in
Damper Tube Length (45925-94)	9.500in
Damper Tube Outside Diameter	.715in
Damper Tube Head OD	1.175in
Damper Tube Holes (4) Diameter	.298in
Top Out Spring Length (45374-87)	1.890in
Top Out Spring Outside Diameter	1.20in
Top Out Spring - Number of Coils	7
Top Out Spring Coil Wire Diameter	.196in
Top Out Spring Single Rate - Gap	.130in
Assembled Fork	
Top of Damper Tube to Top of Slider (no cap) (Fork Comp'd)	14.438in
Top of Leg Cap to Top of Slider (Fork Ext'd)	15.125in
Top of Leg Cap to Top of Slider (Fork Comp'd)	9.563in
Therefore → Maximum Full Travel Equals	5.562in

Damper Tube Suspension - Simple Illustration of Fork



Pictures from a disassembled 1994 Front Fork:





Reference Additional Information on the 1986-2003 models in these XLForum Threads:

Thanks to jaystellato for contributing to this conversation:

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-suspension-frame-forks-handlebars-fuel-tank-oil-tank-fenders/188025-rigid-mount-fork-info?t=2004931>

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-suspension-frame-forks-handlebars-fuel-tank-oil-tank-fenders/183137-wrong-damper-tubes?t=1971682>

All Photos are from IXL2Relax at the XLForum

Here's the Progressive Springs Upgrade thread by IXL2Relax at the XLForum:

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-suspension-frame-forks-handlebars-fuel-tank-oil-tank-fenders/188361-progressive-fork-springs-11-1527?t=2006111>

[Go To Technical Menu](#)

[Back to 'Front Fork Info'](#)

From:

<http://www.sportsterpedia.com/> - **Sportsterpedia**

Permanent link:

<http://www.sportsterpedia.com/doku.php/techtalk:evo:susp01c>

Last update: **2024/01/06 05:09**

