

# RACE TECH FORK SPRING PRELOAD

## EXTERNAL TOP-OUT SPRING

### DAMPING ROD or CARTRIDGE

<IPM FK Preload EXTTopOut.doc> © 5-12-22

**1**  
STEP



View all instructions for your model. Scan QR Code or go to [racetech.com](http://racetech.com)

These instructions are for External Top-Out Spring Forks. If you have a conventional (right-side-up) cartridge fork check if it is Internal or External Top-Out. See Instructions Search.

**2**  
STEP

**SET THE FORK SPRING PRELOAD** by making the correct length preload spacers.

1. If your forks have Preload Adjusters set them to minimum.
- 2A. If you have an Emulator follow the instructions and do a DVS Valving Search for your Personal Custom Setup!



2B. If you have a cartridge fork with an external top-out spring the cartridge rod does not need to be attached to the cap for this process.

3. **Extend the fork tube all the way.**
4. **Insert the fork springs** into the fork tube. (On top of the Emulator if used.)
5. **Install a steel or plastic fork spring washer** or special collar.
6. **Install the fork spring spacer tube.** Any length that goes above the top of the fork tube is ok for now. Your spring kit may have two separate spacer tubes or a single length of tube. These will be cut to fit.

7. **Install a steel or plastic fork spring washer** or collar on top of the spacer.
8. **Set the fork cap on the washer.**

9. **Measure from the top of the fork tube to the sealing lip on the cap.** This is a direct measurement of fork spring preload.

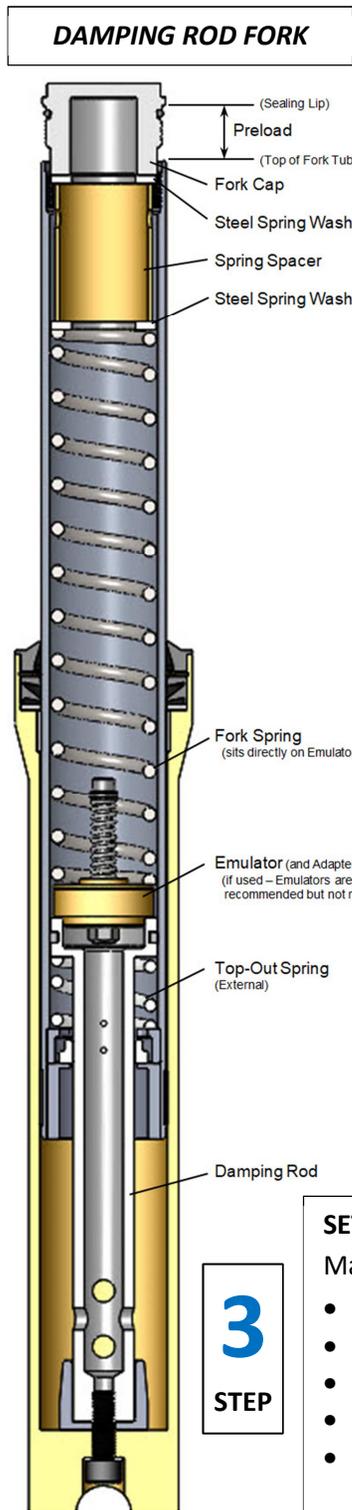
For example if you need 15mm preload you would shorten the spacer by 31mm.

$$46 - 15 = 31\text{mm shorter}$$

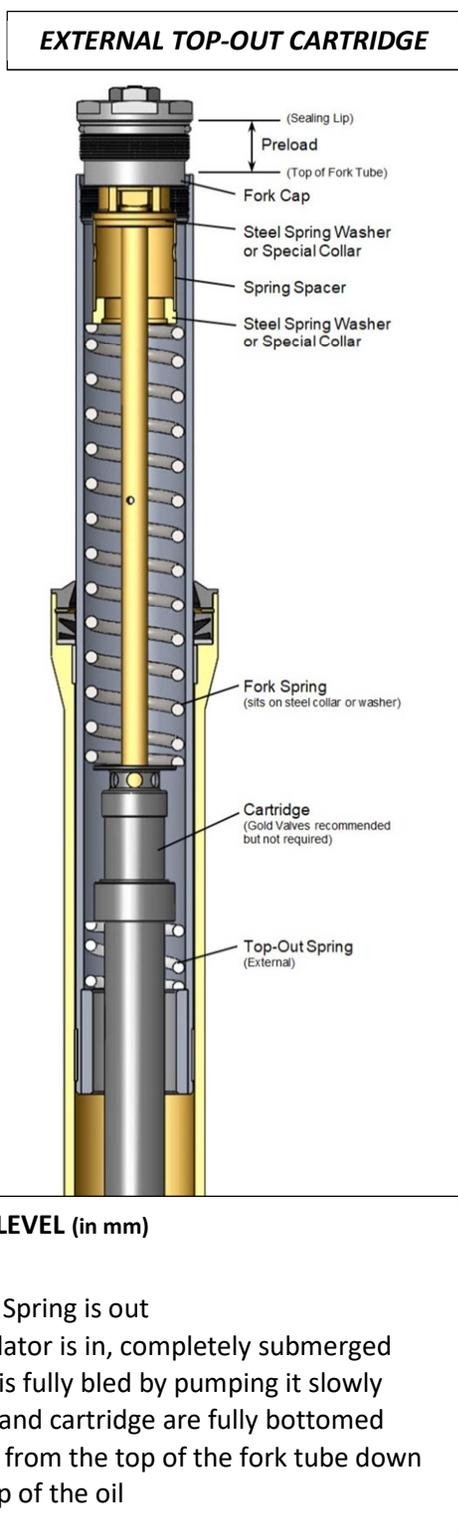
**NOTE: You must have steel washers on both ends of the spacer.** The spacer must not rest directly on the spring or the cap.

**RT Springs are usually different length than stock. In most cases you will need to make custom spacers from tubing provided. Longer spacers often can be made with Schedule 40 PVC.**

10. **Adjust the spring spacer tube length** to achieve the proper preload. Recommended preload is available on the Product Search or DVS Search.



**3**  
STEP



**SET THE OIL LEVEL (in mm)**

Make sure:

- The Fork Spring is out
- The Emulator is in, completely submerged
- The fork is fully bled by pumping it slowly
- The fork and cartridge are fully bottomed
- Measure from the top of the fork tube down to the top of the oil