



## Stem Owner's Manual



Adjustable  
Threadless  
System

[www.nvocomponents.com](http://www.nvocomponents.com)

## Introduction:

Congratulations on your ownership of a quality NVO Components product. The NVO Components stem is ATS (Adjustable Threadless System) compatible allowing for easy height adjustment with threadless headset systems. This owner's manual will help familiarize you with the function of your product. Please read this manual thoroughly before installation or use. Failure to follow the installation instructions may cause serious bodily injury and will void any warranties, expressed or implied.

## Function:

The function of the ATS System includes:

- The ability to micro-adjust your stem height easily.
- No headset re-adjustment after changing your stem height.
- No loose headset parts when traveling with your bike.
- Protects carbon fiber steer tubes.
- Reinforces steer tube against bending.
- Keeps headset adjustment better than current systems.

## ATS System Overview:

The ATS system consists of a shim that slides over the steer tube (Fig. 1). The shim is compressed by the top cap, and in turn, pre-loads the headset (Fig. 2). The stem then slides over the shim and is tightened along the shim length (Fig. 3). To adjust the stem, simply loosen the stem bolt, move the stem to your selected position, then re-tighten the stem bolt. It's that simple!

## New Fork Installation Instructions:

1. Install headset according to manufacturer's instructions.
2. Determine where to cut steer tube by sliding the ATS shim over steer tube and resting it against the completely installed headset.
3. Mark steer tube approximately 2-3mm below the top edge of the ATS shim. NOTE: Most carbon steer tube compression devices rest on the top edge of the steer tube. Be sure to compensate for this added height when determining where to cut your steer tube.
4. Remove ATS shim and cut steer tube using an appropriate method.
5. Install headset compression device in steer tube.
6. Install ATS shim, top cap, headset bolt and pre-load headset to the correct amount. NOTE: Slot of the ATS shim should be facing rearwards.
7. Install NVO Components stem over ATS shim at desired height. Stem bolt should be tightened to 7-8 Nm (62-71 in-lbs).
8. Install handlebar. Bar clamp bolts should be tightened to 5-6 Nm (44 -53 in-lbs).

## Previously Cut Fork Installation Instructions: Cutting ATS Shim

1. Determine whether or not the ATS shim needs to be cut. The shim should be 2-3mm above the top of the steerer. If the shim extends longer than this distance, then the ATS shim needs to be cut. If the steerer is longer than the ATS shim, you have two options. You may cut your steer tube, or you can install stack washers on top of the headset to raise the ATS shim above the steer tube. See "Previously Cut Fork Installation Instructions: Cutting Steer Tube" section for cutting steer tube.
2. If the ATS shim needs to be cut, mark the ATS shim approximately 2-3mm above the top edge of the steer tube. NOTE: Most carbon steer tube compression devices rest on the top edge of the steer tube. Be sure to compensate for this added height when determining where to cut your ATS Shim.
3. Remove fork and slide shim over steer tube. Carefully position the ATS shim so that the cut line is above the steer tube and the steer tube does not accidentally get cut.
4. Clamp the ATS shim cutting tool over the shim and steer tube with the saw blade slot over the cut mark (Fig. 4). Cut ATS shim using a saw with a metal cutting blade. Hold fork with suitable clamping device that will not damage steer tube to perform the cut. File the cut surface flat and smooth. Use a marker to blacken the cut edge surface of the ATS shim.
5. Reinstall fork, ATS shim, top cap, top cap bolt and pre-load headset to the correct amount. NOTE: Slot of the ATS shim should be facing rearwards.



























