

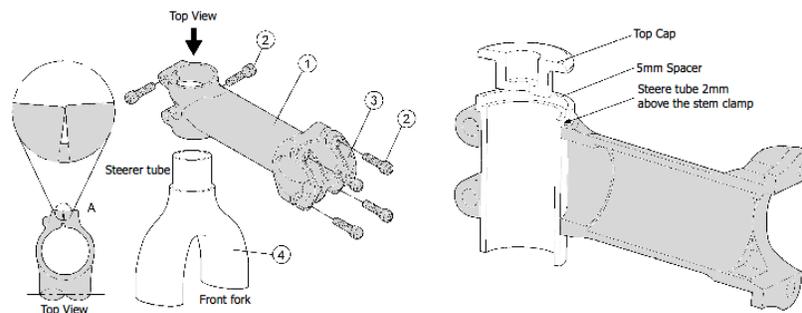


INSTALLATION GUIDE

Williams Stems

Please read the following instructions. Williams recommends that the stem be installed using a torque wrench, by a qualified mechanic.

Please read the following Warnings. Because the failure to follow any warning may result in a catastrophic failure of the stem, resulting in serious personal injury or death, this phrase may not be repeated in connection with each warning.



Williams stems are designed to be compatible with the industry standard steerer tube and handlebar diameters. Williams stems will fit steerers with 1 1/8" diameter and handlebars with 31.8mm clamping diameter.

Stem Installation to Fork Steerer Tube

1. Measure diameter of steerer tube (4) to be certain it is correct size for stem installation. It's often required that the steerer tube be cut to length. **This operation should be performed by a qualified bicycle technician.** Note: Carbon steerer tubes should extend through the stem completely for proper clamp pressure. It is recommended to have minimum 2mm steerer tube extended above the stem and the use of a minimum 5mm headset spacer between stem and headset cap for ALL carbon steerer tube forks. Ensure that the steerer tube is clean and free of burrs or chips before installing stem onto steerer tube.

2. Headset should be installed per headset manufacturer's instructions.

3. Apply small amount of friction paste on steerer tube, if it is carbon. Install the stem body (1) onto the steerer tube. Apply grease to stem fixing bolts (ti-prep for titanium bolts). Tighten the steerer fixing bolts (2) by alternating between bolts 1/4 turn at a time so both bolts reach proper torque simultaneously. Do not go above maximum torque rating printed on the stem. If two fixing bolts go over the maximum torque, the stem clamps may touch slightly (As the above drawing A), the stem is fixed onto steerer tube, shall not go further to avoid damage carbon fork cracks.

Handlebar Installation to Stem

1. For carbon bars apply carbon friction paste on handlebar clamp area. Insert handlebar between stem body and faceplate (3).

2. Apply grease to faceplate bolts (ti-prep for titanium bolts) and tighten the stem steerer fixing bolts (2) 1/4 turn at a time in an X-pattern to tighten faceplate evenly on handlebar. Do not go above maximum torque rating printed on the stem. Check handlebar for slippage before each ride to ensure safe operation.

Headset and Fork must be installed before stem installation. Headset and Fork installation requires specialized knowledge, tools, and experience. General mechanical aptitude may not be sufficient to properly install these components. It is recommended that the headset and fork be installed by a qualified bicycle technician. Improper installation can result in failure of headset, fork, stem, and cause personal injury or death.

