

FULL CARBON FORK INSTALLATION INSTRUCTION FOR FSA (or SIMILAR) COMPRESSION DEVICE

THIS INSTRUCTION CONTAINS IMPORTANT SAFETY INFORMATION. PLEASE READ CAREFULLY BEFORE PROCEEDING WITH INSTALLATION

PREPARATION

TOOLS REQUIRED

1. Steering tube cutting tool
2. Crown Race installation tool
3. Dynamometric wrench
4. 4 mm hexagon Insert
5. 6 mm hexagon Insert
6. Bearing Grease

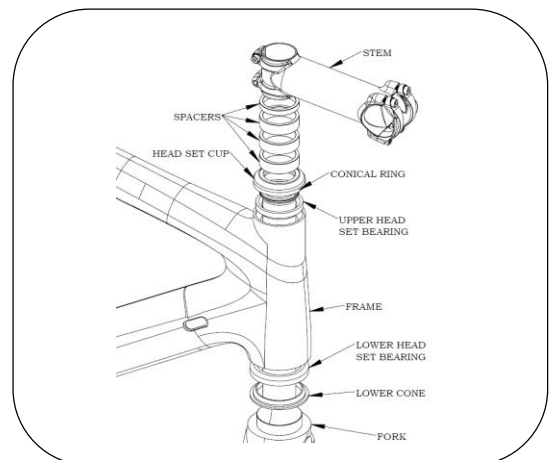
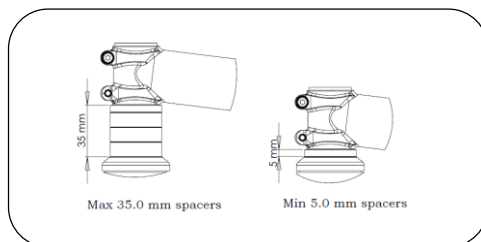


- ① Inspect both the fork and the stem before assembly:
 - Check the fork for any indication of damage: deep impressions, cuts, etc.
 - Check the stem for sharp edges and/or burrs that can damage or scratch the fork surface. Be sure to remove any burrs with fine sandpaper before assembly.
- ② If you need additional details, explanation, or instructions, please contact Bianchi's customer service.

FORK INSTALLATION

- ① Install the crown race on fork with specific tool. Apply a small amount of grease on contact surface.
- ② Install the head set bearings on frame's head tube.
- ③ Insert fork in the frame head tube
- ④ Insert the upper conical ring and the head set cup; adjust the head set components to remove any play. Make sure the fork can freely rotate.
- ⑤ Install the number of spacers desired for rider position.

⚠ WARNING! Spacer's height below stem shall be between a minimum of 5.0 mm and a maximum of 35.0 mm. Exceeding maximum length of 35.0 mm can compromise the strength of fork's steer tube and could lead to catastrophic failure and result in severe personal injury.

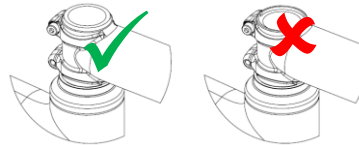
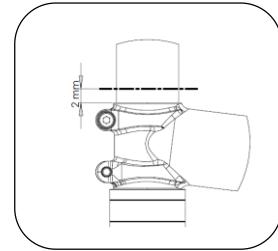


- ⑥ Install the stem and mark on the steer tube a line corresponding to the top of the stem.
 - ⚠ WARNING! Do not use carbon assembly compound (carbon paste) between stem and steering tube.**
- ⑦ Remove the fork and proceed with the steer tube cutting (see "fork's steering tube cutting" section)
- ⑧ Add specific grease on head set bearings
- ⑨ Install the fork inside the frame's head tube repeating operation from point ③ to point ⑤. Take care remove any residual of grease on steer tube's surface using specific degreasing agent.

FORK STEER TUBE CUTTING

- ① Note the mark identifying the top of the stem's position previously taken.
- ② Wrap several layer of covering tape around steer tube to protect it during cutting operation. This will reduce carbon surface damage during cutting and will lead to a cleaner cutting surface
- ③ Mark a second line on the tape, 2 mm above the line previously made to represent the top of the stem.
- ④ Using specific cutting tool, cut the steering tube on the second line (2 mm above the top of the stem).
- ⑤ Remove covering tape and deburr cut section's edges with fine sand paper.

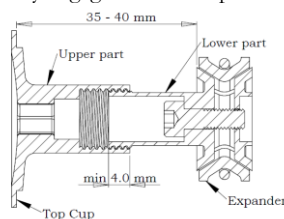
⚠ WARNING! Steer tube's top end must always extend at least 2 mm above the top of the stem (but not above the additional 5 mm spacer that is necessary to install for correct and safe assembly, point ⑪). If steer tube is not long enough for correct installation, contact Bianchi customer service.



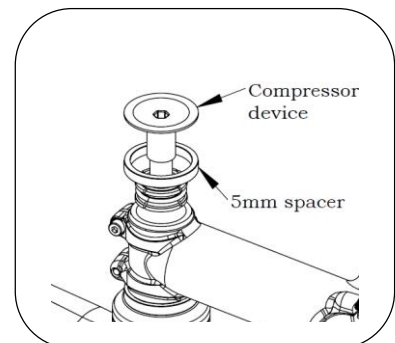
- ⑩ Install the stem
 - ⚠ WARNING! Do not twist stem on steer tube. This can scratch or dent steer tube surface and compromise the fork's safety.**
- ⑪ Install 1 spacer of 5mm thickness above the stem
 - ⚠ WARNING! Do not install more than 1 spacer of 5.0mm thickness above the stem. Application of more than 1 spacer of 5.0mm thickness may lead to a catastrophic fork failure, resulting in serious personal injuries.**
- ⑫ Prepare compression device for installation (see "compression device length adjusting" section)
- ⑬ Install compression device

COMPRESSION DEVICE LENGTH ADJUSTING

- ① Adjust the Compression device length to be about 35-40 mm from the bottom of the compression device's cap and upper expander's surface.
- ② Verify that upper part of compressor device body engages the lower part for at least 4.0 mm of thread.



- ⑭ While applying a vertical downward force on compression device's top cap for preloading the assembly, tighten the compression device internal screw (Position 1) at 7.0Nm (60lbf-inch) of torque (use 4mm hexagon dynamometric wrench)
- ⑮ Tighten the compression device's top cap screw (Position 2) at 5.0Nm (45lbf-inch) of torque (use 6 mm hexagon dynamometric wrench)
- ⑯ Align the stem with front wheel and tighten stem screws (position 3) at 5.0Nm (45lbf-inch) of torque (use 4 mm hexagon dynamometric wrench)
- ⑰ Install front wheels; front brake and put the bike on the ground. While, activating front wheel brake, push-pull horizontally on the handlebar for checking the correct functionality of fork assembly. If you feel sliding movement of the fork on the head tube, untighten all screws and repeat the operation from point ⑭



FORK INSTALLATION INSPECTION

Perform detailed fork assembly inspection, at least, once per year:

- ① Check that the stem and compression device screws are tightened properly: if screws are not tight, it could be a sign of structural damage.
 - ② Disassemble the fork assembly
 - ③ Check the bearing head set condition and add/replace grease.
 - ④ Check steer tube's surface condition externally and internally for damage.
 - ⑤ Re assemble the fork as prescribed at "FORK INSTALLATION" section from point ⑧ to ⑰
- ▲ For very intensive riding (professional race or frequent, intensive recreational use), the inspection interval shall be reduced to at least twice per year.**

Contact Bianchi's customer service for any additional question or deeper information request.