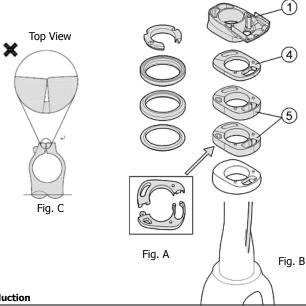


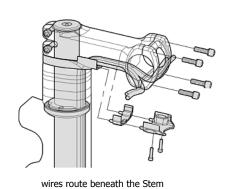
NS SMR Stem Installation Instructions

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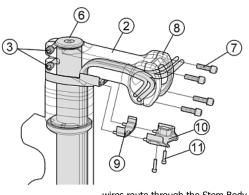
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Body and through the cover



wires route through the Stem Body



Introduction

Congratulations on your Full Speed Ahead product. Please read these instructions and follow them for correct use. Failure to follow the warnings and instructions could result in damage to product not covered under warranty, damage to bicycle; or cause an accident resulting in injury or death. Since specific tools and experience are necessary for proper installation, it is recommended that the product be installed by a qualified bicycle technician. FSA & Vision assumes no responsibility for damages or injury related to improperly installed components.

Warranty

Full Speed Ahead (FSA) warrants all FSA, Vision and RPM products to be free from defects in materials or workmanship for a period of two years after original purchase unless otherwise stated in the full warranty policy. The warranty is non-transferable and valid to the original purchaser of the product only. Any attempt to modify the product in any way such as drilling, grinding, and painting will void the warranty. For more information on warranty policy and instructions for completing a warranty claim, check out the Full Warranty Policy found at our website: http://www.fullspeedahead.com/support/warranty-policy/

Specification

Model Name / Item Number FSA SMR / ST-OS-185/SMR

Model Name / Item Number Fazua with SMR Stem / ST-OS-186/SMR/FU

FSA road, MTB and Vision stems are compatible with industry standard steerer tube and handlebar diameters. To choose the correct FSA stem, first check the specific diameter of steerer tube and handlebar to be used.

Components

Follow the assembly order in the illustration:

- ① Spacers
- ② NS SMR Stem Body x1
- 4 Left / Right spacer MW010 5mm x1
- (5) Left / Right spacer MW011 10mm x2
- (6) Top cap x1
- (7) Face Plate Fixing bolts x4

- (9) Cable Cover Spacer (Table 1)
- ① Cable Cover x1
- (1) Cable Cover Fixing bolts x2

Iable 1	
Stem length	Usage of Cable Cover Spacer (9)
90L	0
100L	1
110L	2
120L	3
130L	4

Table 1

③ Fixing Bolts x2

(8) Stem Face Plate x1

WWW.FULLSPEEDAHEAD.COM Wiring Installation Tips

- 1. Before proceeding to installation, all Brake/ Hydraulic Hose / electronic wiring / should be run through the handlebar and NS SMR Stem Body ② or Spacer ① and Spacers ④,⑤ SMR headset. (Fig. B)
- 2. SMR Stems have two options for cable routing. When using handlebars with internal routing ports, the housings and electronic wires can be routed through the Stem Body ②. Alternativly, the housings and electronic wires can be routed beneath the Stem Body and through the cover (11) and Spacers (9).
- 3. Front brake housings can only be internally routed for disc brakes. Compatible forks have an internal routing port on the steerer tube (Fig. B). All other front brake housings must be routed externally.
- 4. Depending on stem length you may need to install up to 3x Cable Cover Spacers (9).
- 5. Installation is greatly improved when using a guide cable to gently pull the housing or electronic wires through the stem from either direction.

Stem Installation to Fork Steerer Tube

1. Measure diameter of steerer tube to be certain it is correct size for SMR stem installation. It's often required that the steerer tube be cut to length and should be performed by a qualified bicycle technician. Ensure the steerer tube is clean and free of burrs or chips before installing stem onto steerer tube.

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.

- 2. Install fork through the Stem Body ② , place the spacers ① over the fork and then according to your demand place left/right spacers ①,⑤ (④,⑤ are detachable, fiq A).
- 3. Headset should be installed per headset manufacturer's instructions.
- 4. Apply small amount of FSA Dynamic installation compound on Carbon steerer tube. Install the Expander Assembly (not shown) per Expander Assembly instructions below.
- 5. Apply grease to stem fixing bolts ③. Tighten the bolts to 60 kgf.cm / 6 Nm / 53 in.lbs. of torque by alternating between bolts 1/4 turn at a time so both bolts reach proper torque simultaneously.

A CAUTION Do not go above maximum torque rating printed on the stem. If your steerer clamp looks like Fig. C it may be over torqued or installed incorrectly. If two Fixing Bolts ③ go over the maximum torque, can cause cracks in carbon steerer tube. Check stem for slippage on the steerer tube before proceeding.

Expander Assembly Installation

The Expander Assembly is designed to work with Carbon Steerer Tubes. Do not apply grease on the Carbon Steerer or Expander Assembly.

- 1. Install the Stem ② onto the Carbon Steerer. Tighten the Steerer Clamp Bolts ③ finger tight only.
- 2. Adjust Expander Assembly, Tighten the Expander Assembly with a 5mm hex wrench to 50 kgf.cm / 5 Nm / 45 in.lbs. of torque. Note: The Expander Assembly must be complete assembled and adjusted to fit tightly into the Carbon Steerer before installation.
- 3. Tighten the Top Cap (6) with a 6mm hex wrench to until proper bearing preload is achieved. Note: Proper bearing preload is apparent when there is no "knock" (fore / aft or up / down free play) in the headset assembly, while the bearings rotate freely (free steering motion).

A CAUTION Check the alignment of Stem to the front wheel before final torque is applied to the Steerer Clamp Bolts, loosen and adjust if required. Be sure all bolts are tightened to recommended torque.

Handlebar Installation to Stem

- 1. Apply FSA Dynamic Installation Compound on handlebar clamp area. Insert handlebar between NS SMR Stem Body ② and face plate ⑧ Pre-tighten Face Plate Fixing bolts ⑦.
- 2. Apply grease to faceplate bolts and tighten the upper bolts to a torque 60 kgf.cm / 6 Nm / 53 in.lbs Alternately tighten TOP stem bolts until there is no gap between faceplate and stem body. (Fig. D).
- 3. Tighten the lower bolts to a torque 60 kgf.cm / 6 Nm / 53 in.lbs 1/4 turn at a time to tighten faceplate evenly.

A CAUTION Do not go above maximum torque rating printed on the stem. Check handlebar for slippage before each ride to ensure safe operation. Contact FSA for Troubleshooting information.

▲ WARNING

Be sure to choose the correct stem to fit the steer tube and handlebar for which it is to be installed. Installing the stem on an incorrect steerer tube, or handlebar clamp diameter may cause damage to product, or cause an accident resulting in injury or death.

- FSA NS SMR stems are designed to work with 1 1/8" steer tubes. (Apply small amount of FSA Dynamic installation compound on steerer tube and stem)
- FSA Road and MTB stems are available to fit 31.8mm Handlebar clamp only.

▲ WARNING

▲ WARNING

Measure Fork Steerer tube and handlebar clamp area before installing stem. Use an accurate measuring device such as a caliper or micrometer. Installing stem onto an undersized steertube or handlebar can cause stem or bar to slip causing loss of control of bicycle; resulting in an accident, damage to bicycle, injury or death. Use FSA Dynamic Assembly Paste between stem, steerer tube, and handlebar to reduce chances of slippage. Consult fork and handlebar manufacturer for exact diameter specification. If manufacturer specifications are unavailable, general guidelines are as follows:

Handlebar Clamp Area Dimensions:

● Φ31.8mm + 0.15 / -.00mm

 Φ 26.0mm + 0.15 / -.00mm

• Φ 25.4mm + 0.15 / -.00mm

Steerer Tube Dimensions:

1 1/8" Φ28.6mm +.01 / -.00mm 1 1/4" Φ31.8mm +.01 / -.00mm

1.5" Φ 38.1mm +.01 / -.00mm

Headset and Fork must be installed before stem installed in the second for the sufficient to properly install these second for the sufficient to properly install 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.



Contact

If you have questions, please visit our web site technical section: http://www.fullspeedahead.com/contact or contact:

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