



THIS INSTRUCTION GUIDE CONTAINS IMPORTANT INFORMATION. PLEASE READ CAREFULLY AND STORE IN A SAFE PLACE.

This instruction guide contains important safety, performance and service information. Read it before you take the first ride with your bike equipped with a Specialized carbon road crankset, and keep it for reference.

Additional safety, performance and service information for specific components such as handlebars or seat post on your bicycle, or for accessories such as helmets or lights that you purchase, may also be available. Make sure that your Authorized Specialized Dealer has given you all the manufacturers' literature that was included with your bicycle or accessories. In case of a conflict between the instructions in this instruction guide and information provided by a component manufacturer, always follow the component manufacturer's instructions.

If you have any questions or do not understand something, take responsibility for your safety and consult with your Authorized Specialized Dealer or the bicycle's manufacturer.

This manual is not intended as a comprehensive use, service, repair or maintenance manual. Please see your Authorized Specialized Dealer for all service, repairs or maintenance. Your Authorized Specialized Dealer may also be able to refer you to classes, clinics or books on bicycle use, service, repair, and maintenance.

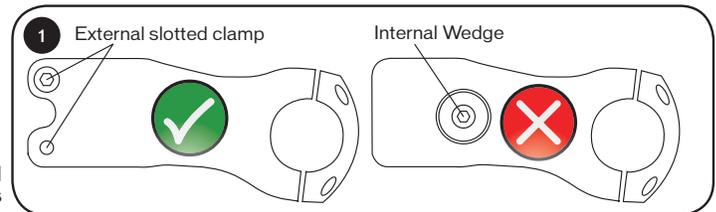
Please visit <http://servicevideos.specialized.com/> for instructional videos.

! Many of the Warnings and Cautions say "you may lose control and fall." Because any fall can result in serious injury or death, we do not always repeat these warnings. Because it is impossible to anticipate every situation or condition that can occur while riding, this instruction guide makes no representation about the safe use of the bicycle under all conditions. There are risks associated with the use of any bicycle that cannot be predicted or avoided, and which are the sole responsibility of the rider. This instruction guide should be used in conjunction with the Specialized Bicycle Owner's Manual. If you have purchased this product in the aftermarket or separate from the bicycle, go to www.specialized.com and download and read the Bicycle Owner's Manual.

PREPARATION

- Inspect the fork and stem to ensure that there are no burrs or sharp edges that can damage the surfaces in contact with each other. Remove any burrs or sharp edges using fine grit sandpaper.
- All edges of the stem in contact with the steerer tube should be rounded out to eliminate any stress points.

! **WARNING!** Burrs and sharp edges can damage the carbon and alloy surfaces of the components. Any deep scratches or gouges in the stem or fork can weaken the components.



NOTE: Specialized recommends using an external slotted clamp style stem. Internal wedge clamp style stems can cause damage to the steerer tube if improperly installed (Fig. 1).

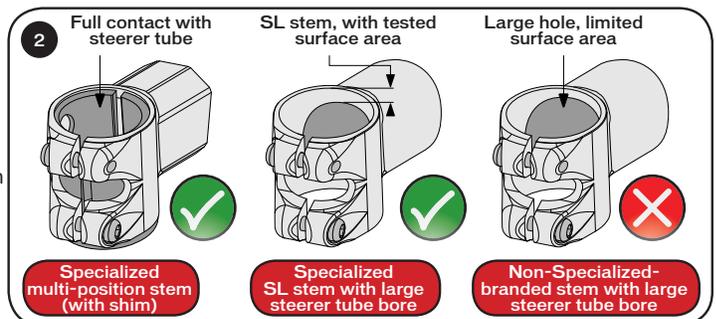
SPECIALIZED BRANDED STEMS:

- Specialized multi-position stems are equipped with a shim and offer a near-continuous surface contact, which helps to evenly distribute loads (Fig. 2).
- Specialized carbon road stems and Barmac Systems have built-in continuous surface contact, which helps to evenly distribute loads.
- **Specialized SL stems** with large bore holes are specifically designed in conjunction with Specialized forks with carbon steerer tubes, to ensure proper load distribution.

NON-SPECIALIZED BRANDED STEMS:

Specialized recommends against the use of non-Specialized-branded stems with large bore holes in contact with the steerer tube. Large bore holes reduce the clamping surface area and may concentrate the load onto the carbon steerer tube in an unsafe manner.

As we cannot test every combination, Specialized does not warrant the use of **non-Specialized branded stems** with Specialized forks (carbon steerer tubes) and Specialized Carbon steerer tube plugs, unless specified as original equipment by Specialized. Specialized hereby disclaims all warranties, including the warranties of fitness for particular purpose and merchantability.



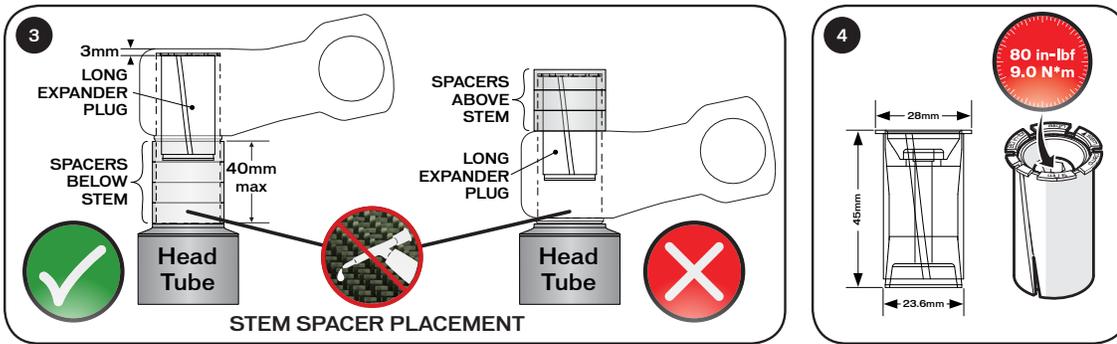
FORK INSTALLATION

1. If the fork does not have an integrated crown race, apply a small amount of grease to the contact surface at the base of the steerer tube. Use a crown race installation tool to seat the crown race onto the base of the steerer tube. Do not place the fork dropouts against any surface to brace the fork when seating the crown race. This can damage the fork dropouts. It is recommended that the fork be held by the legs when installing the crown race.
2. If the fork has a carbon steerer tube, install the Specialized Carbon Steerer Tube Plug (**S142500007**, Fig. 4) in the top of the fork's steerer tube. **Recommended torque is 80 in-lbf (9.0 Nm).**
3. Install the headset. Follow the headset manufacturer's instructions to insert the headset into the frame. For Specialized headsets, refer to the Carbon Road Frame Instruction Guide.
4. Install the fork into the head tube of the bike, then install the headset spacers and the stem. Unless the desired stem height is already determined, it is recommended that the initial installation of the fork be done with the maximum allowed stack height (40mm) to allow the greatest range of adjustability. Spacers can be placed above or below the stem to adjust your position. Once a more precise stem height is determined, a second cut can be made to eliminate any spacers that may have been placed above the stem to achieve the desired position.

! **WARNING!** Do not apply carbon assembly compound (carbon paste) between the stem and the steerer tube. Application of carbon paste to the stem/steerer tube interface may result in a catastrophic failure of the fork, resulting in serious personal injury or death.

WARNING! Do not install more than 40mm (1.5") stack height of headset spacers (Fig. 3). Exceeding this limit can compromise the strength of the steerer tube.

WARNING! Do not permanently place stem spacers above the stem (Fig. 3). Placing spacers above the stem defeats the purpose of the expander plug's ability to support the steerer tube and stem.



WARNING! Carbon fiber steerer tubes require the use of the Specialized carbon steerer tube plug assembly supplied with the fork (Fig. 4). Do not use a star nut, as it can damage the inside surface of the steerer tube. Damage to the steerer tube can result in failure, causing serious personal injury or death.

- Once the initial stem height is achieved, make a mark on the steerer tube directly in line with the top of the stem.
- Remove the steerer tube plug (if cutting a carbon steerer tube) and the stem, then measure the distance from the line (marked in step 5) to the top of the steerer tube. Remove an additional 3mm of steerer tube (carbon) to make room for the Specialized carbon steerer tube plug. 2mm for alloy steerers.
- For carbon steerer tubes, wrap the area where you intend to cut the fork with several layers of masking tape. This will limit the amount of fraying of the fibers, resulting in a cleaner cut. Once you've wrapped the layers of tape, determine the precise location of the desired cut with a pen mark on the tape, based on the measurement from step 6.
- Double check all measurements to make sure the steerer tube will not be cut too short. It's easier to measure twice than to buy a new fork.

TECH TIPS:

- To avoid fraying the composite fibers, Specialized recommends using a carbon-specific saw blade. A fine tooth (36 teeth) saw blade is also acceptable.
- It is very important that the steerer tube is cut straight. For best results, use a steerer tube cutting guide tool.
- Once the steerer tube is cut to the desired length, be sure to remove all burrs at the top of the steerer tube by rounding out the edge with emery paper or a fine grit sand paper. Wipe off all excess dust. **Be sure not to breathe carbon dust!**

- Re-install the steerer tube plug. **Recommended torque is 80 in-lbf (9.0 Nm).**
- Place the fork back into the frame, place the desired amount of headset spacers to achieve proper stem height.

WARNING! Do not apply grease or carbon assembly compound to the interface between the stem and the carbon steerer tube. This can result in damage to the composite surface, which can render the fork unsafe.

- Install the stem and the top preload cap.
- Adjust the headset to eliminate any free play, make sure that the fork still rotates freely.
- Align the stem with the fork.
- Tighten the stem's upper and lower steerer clamp bolts in an alternating pattern. Increase torque in 5 in-lbf (0.56 Nm) increments, until the specified torque is achieved.

STANDARD STEMS: Do not exceed the maximum acceptable stem bolt torque applied to the steerer tube of 80 in-lbf (9.0 Nm). Refer to your stem owner's manual for specific torque spec recommendations for the stem bolts.

BARMAC WEDGE: Due to the special wedge system design, the Barmac Wedge stem torque requirement of 110 in-lbf (12.4 Nm) is approved.

- Install the front brake on the fork. For additional installation information, please refer to the brake manufacturer's installation guides. Do not exceed the maximum torque specs listed below. If the brake manufacturer's torque spec exceeds Specialized's maximum torque spec, the brake is not compatible.

WARNING! Damage to composite is difficult to visually identify. If the external composite surface is dented, frayed, gouged, deeply scratched, fractured, chipped or otherwise damaged, the component should be replaced. If a fork has suffered a crash or impact, even if no damage is visible, Specialized or an authorized Specialized dealer should inspect the product.

BRAKE INSTALLATION

Refer to the brake manufacturer instructions for complete installation information.

LOCATION	TORQUE	LOCATION	TORQUE
Center mount brake	70 in-lbf (7.9 Nm)	Rack mount (center of leg)	25 in-lbf (2.8 Nm)
Cantilever post mount brake	90 in-lbf (10.2 Nm)	Steerer tube plug	80 in-lbf (9.0 Nm)
Disc mount brake (max rotor diameter: 160mm)	90 in-lbf (10.2 Nm)	Max stem torque applied to steerer	80 in-lbf (9.0 Nm)
15mm Thru-axle	106 in-lbf (12.0 Nm)	Under-crown fender mount	25 in-lbf (2.8 Nm)

WARRANTY

For the complete warranty provisions, please visit www.specialized.com.

SPECIALIZED BICYCLE COMPONENTS

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Please note all instructions are subject to change and updates without notice.
Please visit www.specialized.com for periodic tech updates.
Feedback: techdocs@specialized.com