INTRODUCTION

Thank you for purchasing a Specialized Carbon Aerobar with Aero Stem, one of the most technologically advanced aerobars available. This instruction guide contains important safety, performance and service information. Before attempting to install or use this product, please read this instruction guide in its entirety and keep it for reference. Additionally, this instruction guide should be used only in conjunction with the Specialized Bicycle Owner’s Manual ("Owner’s Manual"). Please read the Owner’s Manual before you proceed. If you purchased this product in the aftermarket or separate from a Specialized bicycle and you do not have a copy of the Owner’s Manual, you can download it at no cost at www.specialized.com or obtain it from your nearest Authorized Specialized Retailer or Specialized Rider Care.

Additional safety, performance and service information for specific components such as suspension or pedals on your bicycle, or for accessories such as helmets or lights, may also be available. Make sure that your Authorized Specialized Retailer 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, please contact your nearest Authorized Specialized Retailer.

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

When reading this instruction guide, you will note various important symbols and warnings, which are explained below:

![WARNING!](image)

**WARNING!** The combination of this symbol and word indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death. Many of the Warnings say “you may lose control and fall.” Because any fall can result in serious injury or even death, we do not always repeat the warning of possible injury or death.

![CAUTION:](image)

**CAUTION:** The combination of the safety alert symbol and the word **CAUTION** indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury, or is an alert against unsafe practices. The word **CAUTION** used without the safety alert symbol indicates a situation which, if not avoided, could result in serious damage to the bicycle or the voiding of your warranty.

![INFO:](image)

**INFO:** This symbol alerts the reader to information which is particularly important.

![GREASE:](image)

**GREASE:** This symbol means that high quality grease should be applied as illustrated.

![CARBON FRICTION PASTE:](image)

**CARBON FRICTION PASTE:** This symbol means that carbon friction paste should be applied as illustrated to increase friction.

![TORQUE:](image)

**TORQUE:** This symbol highlights the correct torque value for a specific bolt. In order to achieve the specified torque value, a quality torque wrench must be used.

![TECH TIP:](image)

**TECH TIP:** Tech Tips are useful tips and tricks regarding installation and use.

GENERAL COMMENTS ABOUT INSTALLATION

Specialized recommends that installation be performed by an Authorized Specialized Retailer. If you attempt to perform the installation yourself, which Specialized does not recommend, make sure you possess the appropriate mechanical skill, knowledge, and quality tools to do so. If you have any doubts regarding your mechanical ability or have any questions, please consult with your Authorized Specialized Retailer.

**WARNING!** Aerobars are attached to the front end of your bicycle, and as a result, proper and secure installation by your Authorized Specialized Retailer is critical for your safety. Improper installation or adjustment may result in an accident, which can cause serious injury or death.

The following tools are required for installation of this product:

- 4, 5mm Allen keys
- 4, 5mm socket-style Allen keys
- Torque wrench
- High-quality grease
- Hacksaw
- Hacksaw blade (36 tooth blade or for carbon)

**WARNING!** Correct tightening force on fasteners (nuts, bolts, screws) on your bicycle is important. If too little force is applied, the fastener may not hold securely. If too much force is applied, and the fastener can strip threads, stretch, deform or break. Either way, incorrect tightening force can result in component failure, which can cause you to lose control and fall.

Where indicated, ensure that each bolt is torqued to specification. After your first ride, and consistently thereafter, recheck the tightness of each bolt to ensure secure attachment of the aerobar. The following is a summary of torque specifications in this guide:

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>Bolt Spec</th>
<th>Torque (in-lbf)</th>
<th>Torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stem © Steerer Tube</td>
<td>4mm</td>
<td>40</td>
<td>4.5</td>
</tr>
<tr>
<td>Stem © Handlebar</td>
<td>4mm</td>
<td>80</td>
<td>9.0</td>
</tr>
<tr>
<td>Risers © Handlebar</td>
<td>4mm</td>
<td>80</td>
<td>9.0</td>
</tr>
<tr>
<td>Extension mount © Extension</td>
<td>4mm</td>
<td>40</td>
<td>4.5</td>
</tr>
<tr>
<td>Extension mount © Pad Holder</td>
<td>4mm</td>
<td>40</td>
<td>4.5</td>
</tr>
</tbody>
</table>
CAUTION: Ensure that all contact surfaces are clean and bolt threads are greased or have a threadlocking compound (refer to the instructions for each bolt) prior to installation.

GENERAL COMMENTS ABOUT USE
Aerobars are designed to put the rider’s body in a low, aerodynamic position and may take some time to get used to.

WARNING! The Specialized Carbon Aerobar and Aero Stem are designed for a maximum rider weight of 240 lb (109 Kg). Failure to follow this warning may result in an accident, which can cause serious injury or death.

WARNING! Aerobars can require riding positions that are new or different to many riders, which may cause you to lose control and fall. Continue to look forward while riding and not down towards the ground. We advise that you practice using these aerobars in a low traffic area to become accustomed to any changes in the steering or handling of your bicycle.

GENERAL COMMENTS ABOUT MAINTENANCE AND SERVICE
The Specialized Carbon Aerobar with Aero Stem is a high performance system that requires regular maintenance by your Authorized Specialized Retailer. For general information regarding maintenance of your bicycle, please refer to section 5 of the Owner’s Manual. In addition, routinely perform the Mechanical Safety Check described in section 1.C of the Owner’s Manual before each ride.

CAUTION: While riding, listen for any creaks, as a creak can be a sign of a problem with one or more components. Periodically examine all surfaces in bright sunlight to check for any small hairline cracks, corrosion or fatigue at stress points, such as welds, seams, holes, and points of contact with other parts. Remove grips or handlebar tape periodically, if necessary. If you hear any creaks or discovery any cracks, no matter how small, immediately stop riding the part and have it inspected by your Authorized Specialized Retailer.

Nothing lasts forever. Frequent inspection of your bicycle and its components is important to your safety. Please refer to Appendix B of the Owner’s Manual for information regarding the lifespan of your bicycle and its components.

SUPPLEMENTAL DOCUMENTATION
For additional instructions, please refer to techdocs.shimano.com for all Shimano guides.

WARRANTY
For the complete warranty provisions, please refer to www.specialized.com.

HARDWARE
The following hardware is included with your Specialized Aerobars:

WARNING! Only use Specialized supplied hardware at all times. Using other hardware may compromise the integrity and strength of the assembly which may result in damage to the bicycle or its components or in an accident which can cause serious injury or death.

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM SIDE VIEW</th>
<th>ITEM ANGLED VIEW</th>
<th>ITEM DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><img src="image1.png" alt="Arm pad holder" /></td>
<td><img src="image2.png" alt="Arm pad holder" /></td>
<td>Arm pad holder (requires 4 x M6x10mm bolts)</td>
</tr>
<tr>
<td>2</td>
<td><img src="image3.png" alt="Extension bracket" /></td>
<td><img src="image4.png" alt="Extension bracket" /></td>
<td>Extension bracket</td>
</tr>
<tr>
<td>4</td>
<td><img src="image5.png" alt="5mm extension riser" /></td>
<td><img src="image6.png" alt="5mm extension riser" /></td>
<td>5mm extension riser</td>
</tr>
<tr>
<td>2</td>
<td><img src="image7.png" alt="10mm extension riser" /></td>
<td><img src="image8.png" alt="10mm extension riser" /></td>
<td>10mm extension riser</td>
</tr>
<tr>
<td>6</td>
<td><img src="image9.png" alt="20mm extension riser" /></td>
<td><img src="image10.png" alt="20mm extension riser" /></td>
<td>20mm extension riser</td>
</tr>
</tbody>
</table>
AERO STEM AND HANDLEBAR INSTALLATION

1. INSTALLING THE AERO STEM

For instructions on how to install the stem on your bicycle, please refer to the bike manufacturer’s manual. In case of a Specialized bicycle, such as the Shiv, you can download it at no cost at www.specialized.com or obtain it from your nearest Authorized Specialized Retailer or Specialized Rider Care. Once installed properly, torque the stem bolts to 40 in-lbf (4.5 NM).

2. INSTALLING THE CARBON AERO HANDLEBAR ON THE AERO STEM

SPECIALIZED AERO STEM:

1. Determine the desired stem length of 60 or 90mm (longer 80 / 110mm stem available separately) and install the carbon aero handlebar A along with the handlebar position wedge B.

TECH TIP: If the stem length is not yet determined, it’s recommended to start at the 90mm (or 110mm) position. Changing the stem from the 60mm to 90mm (or 80mm to 110mm) position will require that the cable housings be replaced with longer ones to accommodate the additional stem length. It’s easier to trim cable housings to a shorter length if adjusting from the 90mm to the 60mm (or 110mm to 80mm) position.

2. Install the stem’s upper section C and four bolts D (M6x32mm, 4mm countersunk Allen hex head).

3. Alternate the torque to the stem bolts in 5 in-lbf (0.6 Nm) increments, up to a final torque setting of 80 in-lbf (9.0 Nm), to ensure an even load distribution to the handlebar.
1. Install the Expander Plug into the steerer tube according to the fork manufacturer’s instructions.
2. Install the preload top cap E, followed by the bolt with washer F, then preload the headset bearings to remove any play.
3. Torque the Aero Stem bolts to 40 in-lbf (5.1 Nm).
These Aerobars can be adjusted in many ways to provide the ideal fit for the rider. Your Authorized Specialized Retailer can help you find that ideal fit. The Specialized supplied risers allow for a height adjustment of the Aerobars. Use the following Riser Chart to determine the correct bolt length and use of supplied risers for the corresponding stack height:

<table>
<thead>
<tr>
<th>STACK HEIGHT</th>
<th>20mm</th>
<th>10mm</th>
<th>5mm</th>
<th>BOLT LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0mm</td>
<td></td>
<td></td>
<td>1</td>
<td>25mm</td>
</tr>
<tr>
<td>5mm</td>
<td>1</td>
<td></td>
<td>1</td>
<td>30mm</td>
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<tr>
<td>10mm</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>35mm</td>
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<tr>
<td>15mm</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>40mm</td>
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<tr>
<td>20mm</td>
<td>1</td>
<td></td>
<td>1</td>
<td>45mm</td>
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<tr>
<td>25mm</td>
<td>1</td>
<td></td>
<td>1</td>
<td>50mm</td>
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<tr>
<td>30mm</td>
<td>1</td>
<td></td>
<td>2</td>
<td>55mm</td>
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<tr>
<td>35mm</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>60mm</td>
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<tr>
<td>40mm</td>
<td>2</td>
<td></td>
<td>1</td>
<td>65mm</td>
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<tr>
<td>45mm</td>
<td>2</td>
<td></td>
<td>1</td>
<td>70mm</td>
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<tr>
<td>50mm</td>
<td>2</td>
<td></td>
<td>2</td>
<td>75mm</td>
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<tr>
<td>55mm</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>80mm</td>
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<tr>
<td>60mm</td>
<td>3</td>
<td></td>
<td>1</td>
<td>85mm</td>
</tr>
<tr>
<td>65mm</td>
<td>3</td>
<td></td>
<td>1</td>
<td>90mm</td>
</tr>
<tr>
<td>70mm</td>
<td>3</td>
<td></td>
<td>2</td>
<td>95mm</td>
</tr>
<tr>
<td>75mm</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>100mm</td>
</tr>
</tbody>
</table>
2A. INSTALLATION WITH NO RISER SPACERS:

1. Install the bolts through the handlebar, through the risers and into the extension brackets. Apply grease as illustrated.

Refer to the Riser Chart on page 5 of this guide to determine the appropriate bolt length and use of supplied risers for the corresponding stack height.

2. Torque the bolts to 80 in-lbf (9.0 Nm).

2B. INSTALLATION WITH RISER SPACERS:

1. Riser stack height can be achieved by stacking different combinations of riser parts A, in increments of 5mm.

2. Install the bolts through the handlebar and riser(s), and into the extension brackets. Apply grease as illustrated.

Refer to the Riser Chart on page 5 of this guide to determine the appropriate bolt length and use of supplied risers for the corresponding stack height.
3. INSTALLING THE CLAMPS, EXTENSIONS AND ARM PADS

1. Trim extensions [B] to the desired length, then install the extensions in the brackets. If the extensions are difficult to insert into the brackets, apply a light coat of grease to the opening of the bracket before installing the extensions.

**CAUTION:** Due to the relatively short 10mm range of adjustment allowed by the extension brackets, trimming the length of the extensions must be done incrementally. Install the extensions in the extension brackets and test the position. If the extensions are positioned too far out, gradually trim an equal amount (hacksaw carbon cutting blade or 36 tooth cutting blade) from each extension until the desired reach is achieved.

**WARNING!** The extension bracket allows for a maximum adjustable depth range of 10mm from the end of the slot [C]. In order to ensure secure attachment of the extensions, the space between the end of the slot and the end of the extension should be less than 10mm. Improper installation may result in an accident which can cause serious injury or death.

The extensions have the option of being switched to either side, for a wider or narrower hand position. They can also be rotated inward or outward to fine-tune the angle of the hand position (see page 8).

2. Install the arm pad holders [D] on the extension clamps with 2 x pad holder bolts and washers [E] (M6x10mm length, 4mm Allen hex round head bolts). Apply grease as illustrated. The pad holders have three lateral and three forward or backward position options (see page 8).
3. The extensions have the ability to be swapped left to right, to adjust the stance width of the hand grip area. They can also be moved forward or backward for length adjustment (± 10mm) and rotated inward or outward for additional hand grip area width and angle fine-tuning.

4. The arm pads have three lateral and three forward or backward positions to fine-tune the rider’s elbow width and the position of the pad under the arm.

5. Once the fit is determined, torque the riser bolts, extension clamp and pad holder bolts according to the torque specifications listed in the chart on page 1.

6. Place the foam pads on the pad holders.
1. Route a section of front brake cable housing A through the non-drive-side portion of the handlebar. If running electronic shifters, route the electronic shifter wire C through the handlebar at before the cable housings, and according to the manufacturer’s instructions. Be careful not to damage the wiring with the cable housing.

TECH TIP: For Di2 instructions, refer to techdocs.shimano.com for Shimano guides.

2. Repeat on the drive-side of the handlebar for the rear brake B and rear shifter D.

3. Trim the brake cable housings to the appropriate length once the brakes have been installed on the bike.

4. Route the rear brake cable housing through the small port hole in the top of the top tube.

5. Install the brake levers into the ends of the handlebar according to the brake manufacturer’s instructions.

6. Route the brake cable housings to the brakes and adjust the brakes according to the brake manufacturer’s instructions.
2A. INSTALLING THE SHIFTER CABLE HOUSINGS (mechanical shifting)

7. Route the shifter cable housings through the handlebar extensions and into the large cable housing port in the top of the top tube.
8. Install the shift levers into the ends of the extensions according to the shifter manufacturer’s instructions.

2B. INSTALLING THE SHIFTER WIRING (electronic shifting)

9. Route the wiring through the extensions and install the shift levers according to the shifter manufacturer’s instructions.