BOLT SIZE / TOOLS / TORQUE SPECS

**WARNING!** Correct tightening force on fasteners (nuts, bolts, screws) on your bicycle is important for your safety. If too little force is applied, the fastener may not hold securely. If too much force is applied, 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 components. The following is a summary of torque specifications in this manual:

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>Allen key</th>
<th>Torque (in-lbf)</th>
<th>Torque (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEERER TUBE</td>
<td>4mm</td>
<td>45</td>
<td>0.2</td>
</tr>
<tr>
<td>STEM @ HANDLEBAR</td>
<td>4mm</td>
<td>45</td>
<td>0.2</td>
</tr>
<tr>
<td>STEERER TUBE COLLAR (side)</td>
<td>4mm</td>
<td>35</td>
<td>0.4</td>
</tr>
<tr>
<td>STEERER TUBE COLLAR (Front)</td>
<td>2.5mm</td>
<td>9.5</td>
<td>0.1</td>
</tr>
</tbody>
</table>

**SPECIALIZED BICYCLE COMPONENTS**

15130 Concord Circle, Morgan Hill, CA 95037 (408) 779-6229
0000134022, UM_EN_R2, 04/19

We may occasionally issue updates and additions to this document. Please periodically check www.specialized.com or contact Rider Care to make sure you have the latest information.

Info: ridercare@specialized.com / 877 808-8154
INSTALLING THE FORK AND FUTURE SHOCK CARTRIDGE

- A video for the Future Shock cartridge is available by going to [http://servicevideos.specialized.com/video/306086210](http://servicevideos.specialized.com/video/306086210), or scanning the QR Code.
- The Specialized Future Shock cartridge and headset are designed as an integrated unit and are only intended for use with compatible frames and forks. Only use the specified parts when assembling the front end of a Roubaix bicycle.

**WARNING!** The fork steerer tube is pre-cut to the size of the frame. Do not cut the fork, or use a fork that is too short. Ensure that the size written on the fork matches the size of the frame.

- The damped 2.0 Future Shock cartridge has only been tested and approved for use on bikes that have the damped cartridge spec’d as original equipment.
- Future Shock bikes are equipped with a a custom headset cap/cover. Different bike models may have different shape covers. Be sure to use the correct option for your bike. See the table below for additional details.

<table>
<thead>
<tr>
<th>BIKE MODEL</th>
<th>PART #</th>
<th>HEIGHT (mm)</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MY17-19 ROUBAIX / MY18-20 DIVERGE</td>
<td>S172500011</td>
<td>0</td>
<td>1-piece</td>
</tr>
<tr>
<td></td>
<td>S172500012</td>
<td>15</td>
<td>1-piece</td>
</tr>
<tr>
<td>MY20 ROUBAIX</td>
<td>S192500011</td>
<td>0</td>
<td>1-piece</td>
</tr>
<tr>
<td></td>
<td>S192500010</td>
<td>15</td>
<td>2-piece (short bill)</td>
</tr>
<tr>
<td>MY18 SIRRUS / MY20 CREO</td>
<td>S189900090</td>
<td>15</td>
<td>2-piece (long bill)</td>
</tr>
</tbody>
</table>

**Fig.1:** Grease, then install the lower bearing (A) on the fork (B). Insert the fork into the head tube, then grease and install the upper bearing (C) and compression ring (D) on the steerer tube.

**CAUTION:** Ensure that the compression ring slot is facing toward the front or rear of the bike. Do not place the slot near the headset preload bolts.

**Fig.2:** Grease, then install the steerer tube collar bolt, washer and barrel. Install the steerer tube collar (E).

**Fig.2:** Apply blue loctite, then install the locator bolt (F) in the collar to lock the collar on the steerer tube. Tighten until snug. Do not exceed 9.5 in-lbf / 1.0 Nm.

**WARNING!** To ensure that the collar and fork locator bolt holes are aligned with each other, place a 2mm Allen key through the holes before installing and tightening the locator bolt. Ensure that the headset adjustment set screws are backed out before installing the collar.
Fig.3: Choose the tall (G) or short stack headset cap (H), then place it over the steerer tube collar. * Please note the short cap not available on all Future Shock equipped bike models.

Fig.4: Install 0-15mm of steerer tube spacers (I) on the cartridge assembly (J). Apply carbon assembly compound on the Future Shock, then insert the cartridge assembly into the steerer tube. Do not use grease.

**WARNING!** To ensure proper insertion of the Future Shock cartridge in the steerer tube, do not install more than 15mm of spacers over the short or tall headset caps. Ensure there is no grease between the steerer tube and the cartridge. Grease can cause the cartridge to slip, which can result in a loss of control.

Specialized recommends the application of carbon assembly compound (or carbon paste) between the cartridge and steerer tube to increase friction. See your Authorized Specialized Retailer if you have any questions.

Fig.5: Align the cartridge so that the arrow on the rubber boot aligns with one of the three flat surfaces. The flat surface and arrow must face toward the front of the bike.

Fig.6: Torque the steerer tube collar to 35 in-lbf / 4.0 Nm.

**WARNING!** When the cartridge is installed, ensure that the steerer tube collar bolt is greased and torqued to specification. Do not tighten the collar without the cartridge installed. An improperly installed and/or tightened collar may cause you to lose control and fall.

Install a stem shim (K) on the cartridge. Use a thick shim for a standard 11/8" stem, or a thin shim for the SW Future Stem. The shim must align with the stem toward the back of the bike.

Fig.6 (adjustable Future Shock only): The adjuster dial must be removed before the stem is installed. Loosen the set screw on the side of the adjuster knob to remove it. To re-install, align the adjuster dial set screw with the flat surface (Fig.5 L) on the top of the Future Shock. Torque the set screw to 18 in-lbf / 2.0 Nm.

The SW Future Stems is compatible with all Future Shocks.

The Venge Accessory Mount (SI89900104) is compatible with the SL faceplate (SI99900064) or the SW Future Stem.

The SL faceplate is only compatible with the SW Future Stems and SL stems.
**Fig.7:** Install the stem on the cartridge, then align the stem with the front wheel. Torque the stem according to the manufacturer specifications. Install the handlebar and brakes according to the brake manufacturer’s instructions.

**NON-ADJUSTABLE FUTURE SHOCK:** Install the top cap (hand-tight).

**Fig.8:** Make sure the locking screws are loosened (N), then adjust the two preload screws (M) using a 2mm Allen key, until they both contact the compression ring. Gradually and evenly alternate between the two preload screws while engaging the front brake and rocking the bike back-and-forth until any movement/looseness is eliminated and the headset rotates freely.

Place the supplied 3mm open wrench on the preload screws (M) below the collar, then torque the locking screws (N) to 9.5 in-lbf / 1.0 Nm, down onto the preload screws to lock them in place. **DO NOT GREASE THE LOCKING SCREWS!**

To access the preload screw (lower), the 2mm Allen key goes through the upper locking screw. The upper locking screw is tightened using a 2.5mm Allen key.

**ADJUSTING THE STACK HEIGHT**

- Remove the top cap and stem.
- Back out the seat screws, then loosen the collar pinch bolt.
- Remove the cartridge from the steerer tube. **DO NOT REMOVE THE BOOT!** The boot is very tight and difficult to get back on, and exposes the internals to contamination.
- Refer to Fig.3-8, page 3 for installation steps on adjusting the stack height.

**CHANGING THE SPRING RATE (non-adjustable models)**

1. **CAUTION:** **DO NOT DISASSEMBLE CARTRIDGE BEYOND CHANGING THE SPRING!**

2. **SOFT (BLUE):** 13lb  
   **MEDIUM (BLACK):** 25lb  
   **FIRM (YELLOW):** 40lb

**Fig.1:** To change the spring rate, remove the stem and shim, then unscrew the cartridge top cover using a 20mm cone wrench.

**Fig.2:** Install the desired spring then reinstall the top cover. Tighten to 55 in-lbf / 6.2 Nm (using a Crow’s Foot), or until the cover is snug (using a cone wrench).

**CAUTION:** When loosening the top cover to change the spring, leave the cartridge in the fork, clamped by the collar. Do not place the cartridge in a table vise!

**HEADSET/STACK HEIGHT ADJUSTMENT CHECKLIST**

- **USE A TORQUE WRENCH!**
- Is the headset adjusted?
- Is the arrow on the cartridge boot aligned toward the front of the bike?
- Are the set screws applying even pressure, with the lock screws tightened down?
- Is the collar pinch bolt tight?
- Are the stem bolts tight?