

SEATMAST CUTTING INSTRUCTIONS

WARNING 1: Failure to follow these instructions will void your warranty, and may result in hidden damage to the seatmast. Damage to the seatmast can cause loss of structural integrity, which may result in serious personal injury or death.

WARNING 2: We recommend the cutting of the seatmast is performed by a professional mechanic with experience. Please ensure they follow the steps below.

WARNING 3: Do not exceed the maximum recommended tightening torque of 3Nm for the Seattube Top Clamp set screws. A link to the full list of recommended torques can be found on the product page for each OPEN frame.

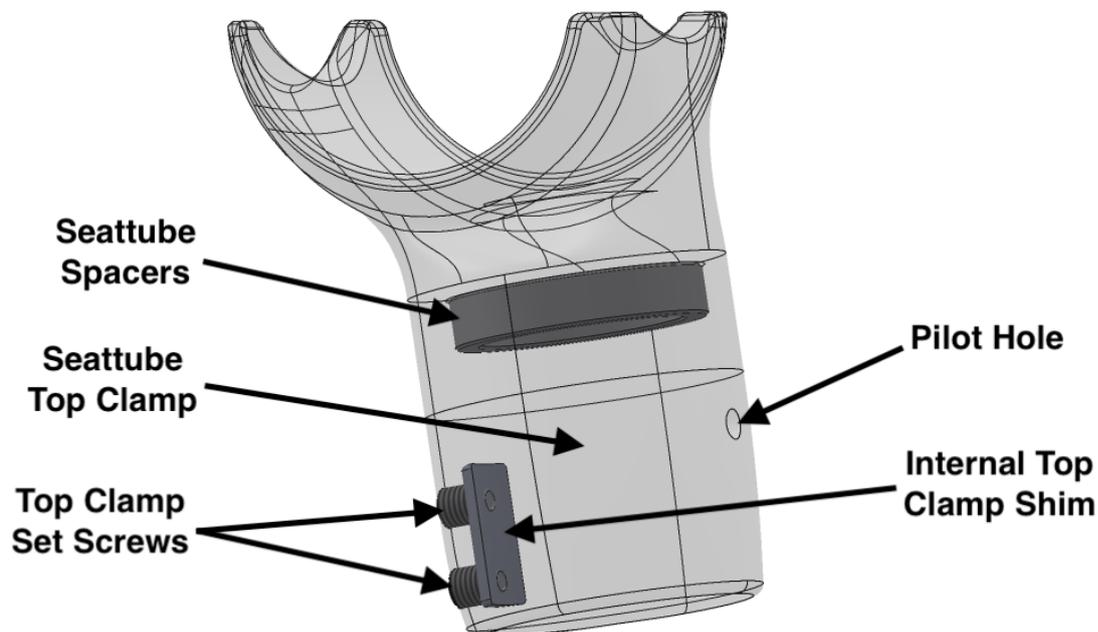
WARNING 4: Always use the Internal Top Clamp Shim inside the Seattube Top Clamp.

WARNING 5: Never add more than 15mm of Seattube Spacers inside the Seattube Top Clamp (except the MOCT (Measure Once, Cut Twice) Seattube Top Clamp where the maximum is 35mm). Always check the pilot hole in the Seattube Top Clamp. You should be able to see only carbon seatmast through that hole. If you can see spacers, you have exceeded the number of spacers allowed. You should NOT ride your bike and contact us to solve the problem.

External view:



Internal view:



STEP PLAN:

1. Measure the saddle height on your current bike. You may want to mark the exact location on the saddle you are measuring to. Measure twice and note the measurement. This is your MASH (My Actual Seat Height).
2. Take the frame with the uncut seattube mast
3. Install the Seattube Spacers you prefer (if any) as well as any battery retainers that are designed to sit on top of the seatmast (we recommend 0-4mm of spacers for your base position including any battery retainers).
4. Check the inside of the Seattube Top Clamp for any scratches or burrs that may scratch or otherwise damage the seatmast. Install the Seattube Top Clamp.
WARNING 3 & 4 above.
5. Install the saddle you intend to use with the appropriate Ritchey clamp. (Side plates for 7x7mm and 7x9.6mm rails are included. Side plates for 8x8.5mm rails are available separately from ritcheylogic.com).
6. Measure the saddle height to the same point on the saddle as you did in Step 1. Measure twice and note the measurement. This is your MUSH (My Uncut Seat Height).
7. Calculate your BLISS (Blimey, Let's Indeed Shorten the Seatmast):

$$\text{BLISS} = \text{MUSH} - \text{MASH}$$

8. Ensure that BLISS does not exceed these lengths (if it does, or if your MUSH is smaller than your MASH, contact us as you are on the wrong frame size):

Frame size:	Maximum BLISS
Small	100mm
Medium	110mm
Large	120mm
X-large	130mm

9. Remove the Seattube Top Clamp.
10. Measure the BLISS length from the top of the carbon seatmast down.
11. Measure twice and mark the BLISS length on the seatmast.
12. Cut the seatmast perpendicular to its axis while adhering to the following guidelines:
 - a. Do not clamp down excessively on the seattube and protect it at all times. This is a high performance frame with tube dimensions optimized for low weight.
 - b. Use equipment, such as glasses, gloves and a dust mask suitable for working with carbon fibers.
 - c. Use a cutting guide suitable for a 25mm or 1" tube/fork steerer.
 - d. To avoid fraying the composite fibers, a fine tooth (32 teeth) saw blade is recommended.
 - e. Take particular care at the end of the cutting process to avoid splinters or loose fibers.
 - f. Carefully sand down any burrs with fine emery paper. Clean off the dust with a damp rag and discard it immediately.
13. Install the spacers and battery if applicable. Install the Seattube Top Clamp with Carbon Assembly Paste. Avoid scratching or damaging the integrated seat post during installation.
WARNING 3 & 4 above.
14. Should you need to raise your saddle, you can do so by adding Seattube Spacers. The frameset includes 1x1mm, 3x2mm and 1x8mm spacers. This allows you to achieve a 15mm range of seat heights in 1mm steps. Should you require an even higher seat height, you can use the MOCT Seattube Top Clamp for a 35mm range of seat heights, also in 1mm steps.
WARNING 5 above.
15. Should you need to lower your saddle, you can do so by removing Seattube Spacers. Should you require an even lower saddle height, you can cut the seatmast further by using the above Step Plan.
WARNING 1, 2, 3, 4 & 5 above.