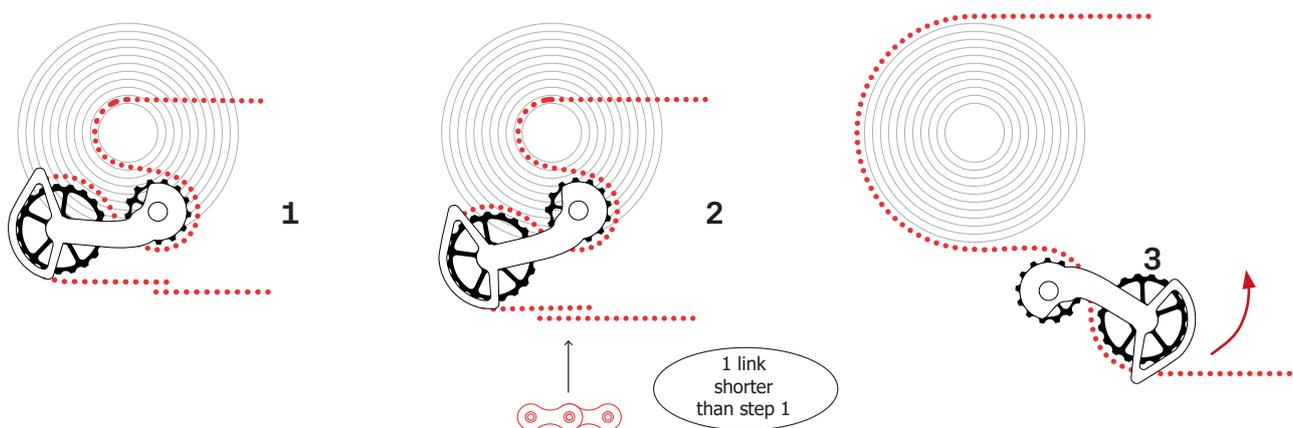


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# OSPW Systems Assembly Guide

## Chain Length and Tension

This document acts as a guide for achieving the correct chain length after mounting a CeramicSpeed OSPW System. Please follow this guide in order to achieve precise shifting and performance of the OSPW System.



**STEP 1:** Place the chain on the small chain ring, through the derailleur cage, and the smallest cog on the cassette. If you are using an electronic group set that does not allow the 'small-small' combination, shift to the smallest cog possible while in the small front chain ring. To find the correct chain length, at the bottom span between chain ring and derailleur cage, pull the two chain ends together. The lower part of the cage should start to move downwards, away from the cassette, as referenced in the second image.

**STEP 2:** When tension is applied on the chain and the OSPW System appears to be aligned as the diagram above, cut the chain 1 full link (inner + outer link combination) shorter to ensure adequate chain tension is present in all gears (small chain ring/smallest cog allowed on the cassette).

**STEP 3:** With the chain now cut to length it is important to test the clearance of the OSPW System when rear derailleur is set in the biggest chain ring and the largest cog on the cassette. Just as the arrow indicates, the cage should be able to rotate further counter clockwise. It is important that there is 3+mm clearance between the upper pulley wheel of the OSPW System and the largest cog on the cassette. If you find the clearance is not enough, adjust the B-tension accordingly. For derailleurs without a B-tension adjustment, you may need to remove additional links, one at a time, to increase the clearance until adequate.

## Spring tension

OSPW model	Spring tension
OSPW for Shimano 9100/8000 series	Select the spring tension hole next to L (second lowest tension)
OSPW for Shimano 9000/6800 series	Select the M tension setting (medium tension)
OSPW for SRAM Red and Force AXS	Select the L tension setting (low tension)
OSPW for SRAM 11spd eTap and Mechanical	Select the M tension setting (medium tension)
OSPW for Campagnolo 11spd and 12 spd	Select the M tension setting (medium tension)
OSPW X for SRAM Eagle AXS and Eagle Mechanical	Select the M tension setting (medium tension)
OSPW X for SRAM Force & Rival 1	Select the L tension setting (low tension)
OSPW X for Shimano RX800/805 and GRX	Select the spring tension hole next to H (second highest tension) for CX racing and rough gravel terrain. For general riding on smoother terrain you may select the spring tension hole next to L (second lowest tension)
OSPW X for Shimano 12spd XT/XTR	Select the L tension setting (low tension)

If you experience slow shift response or poor chain retention, you may not have sufficient chain tension. Review the chain length guide and shorten the chain if necessary, or increase the spring tension setting.

For cages with 3 or more spring tension settings, it is not recommended to use the L setting (low tension) for general riding. This should be reserved for special events in which the surface conditions are smooth and slow shifting response may be acceptable to achieve the lowest drag possible.