
Mounting & Maintenance

OSPW System

For SRAM Red/Force AXS eTap



CERAMICSPEED

Maintenance

No set of rules can be made for how often your Oversized Pulley Wheels are to be maintained. Maintenance frequency depends on the weather conditions that you are riding in.

A worn chain will increase the wear on the pulley wheels significantly, so make sure that you change your chain before it is completely worn out. Under normal conditions, we recommend that you service the Oversized Pulley Wheels when you have ridden under wet conditions, washed your bike or each time you lubricate the chain. For normal maintenance, add a drop of oil into the lubrication points (see the page 3) for optimal performance. Make sure to position the OSPW System horizontally to ensure that the oil reaches the Oversized Pulley Wheel bearings.

We recommend the use of CeramicSpeed Oil on the OSPW System. This can be purchased from the CeramicSpeed dealers worldwide or from our webshop. Watch our maintenance video on ceramicspeed.com in the Support section.

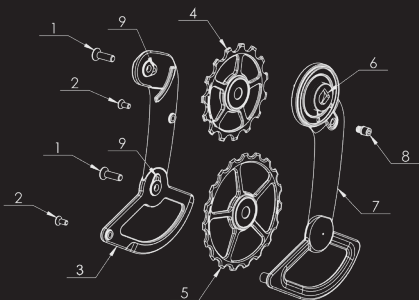
When travelling, your OSPW System will not fit in the bike travelling bag. We recommend that you dismount the whole rear derailleur and pack it aside.

Extended Maintenance

Approximately once every half a year we recommend that you perform an extended maintenance. In this case, you should dismount the Oversized Pulley Wheels from the cage, remove the seals from both sides and clean all parts in a shaker with degreaser. After cleaning, dry the components off, put two drops of oil onto the CeramicSpeed Balls, place the seals back on and remount the Oversized Pulley Wheels. When dismounting the cage plates, you will need a 2.5 mm Allen Key for the pulley wheel bolts (see page 3) and a 2 mm Allen key for the tower bolts. To remount the screws, tighten the pulley wheel screws up to a max torque of 1 Nm and the tower bolts up to 0.3 Nm. For this, a torque tool is recommended. If you're riding in wet and muddy conditions, we recommend you to perform an extended maintenance more frequently and replace oil with All Round Grease for better protection.

Mounting the CeramicSpeed Oversized Pulley Wheel System for SRAM Red/Force AXS eTap

Pos.	Description
1	Pulley wheel bolts
2	Tower bolts
3	Back cage plate
4	Upper pulley
5	Lower pulley
6	Cage pivot
7	Front cage plate
8	Rotation stop screw
9	Pulley wheel lubrication points



Tools required

For the installation of your new CeramicSpeed Oversized Pulley Wheel System for SRAM Red/Force AXS eTap you will need the following tools:

A: CeramicSpeed supplied 4 prong tool for main mounting nut

B: 2mm Allen key

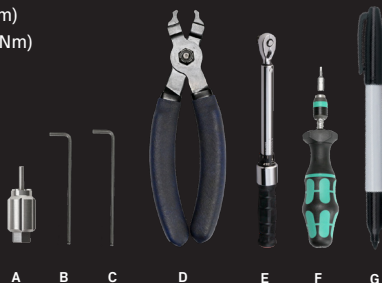
C: 2,5mm Allen key

D: Chain Tool

E: Torque wrench (3 and 6 Nm)

F: Torque wrench (0,3 and 1 Nm)

G: Marker in good condition



Mounting Manual

To ensure the very best in riding performance it is vital that your new OSPW System is mounted correctly. Follow these instructions to install your OSPW System for SRAM Red/Force AXS eTap:



1. Begin with your bike mounted in a stand. Remove the chain. Remove the rear wheel. Then shift the derailleur up to the middle gear.



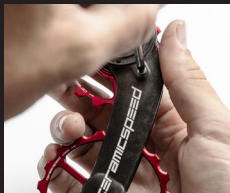
2. Remove the rear derailleur from the bike. Remove both pulley wheels and the back half of the pulley cage.



3. Hold the stock pulley cage (not just the derailleur) and loosen the main center nut with the CeramicSpeed special tool but do not completely remove the mounting nut. When the center nut is loose enough, allow the rotation stop screw to move past the stop point on the derailleur body to release the spring tension.



4. Remove the main center nut and the stock cage. There will be a small amount of spring tension on the cage due to the clutch. Set aside the spring and center nut for reuse.



5. Unbox the CeramicSpeed OSPW system and remove the rotation stop screw (to be reinstalled once the cage is mounted). Dissassemble the OSPW System by removing all 4 bolts from the back of the OSPW System. Set aside the 4 bolts, back cage plate, and both pulley wheels.



6. Using the CeramicSpeed front cage plate, rotate the D-shaped center post inside the derailleur counterclockwise until it stops. Remove the cage plate.



7. Mark the center screw end with a pen to identify the flat surface of the D on the bottom of the center screw (A).



8. The CeramicSpeed cage is marked on the backside of the cage plate with a line to identify the flat side of the D-shaped interface.



9. Mount the factory spring into the derailleur body. Be careful to place the spring post into the correct hole. Note: one hole is deeper than all others (see picture). Ensure the spring sits completely into the derailleur body all the way around.



10. Align the OSPW System cage plate with the back of the derailleur, inserting the spring post into the low (L) tension setting on the cage (B). Do not worry about aligning the D shaped interface.



11. Mount the cage on the center screw and thread the center mounting nut into place using the provided 4 prong tool. Finger tighten the nut until firm, and then unthread 360 degrees (1 full turn).

The D-interface will not be aligned at this point.



12. Take note of the mark you placed on the center post bolt in relation to the alignment mark on the OSPW System cage. Rotate the cage clockwise (looking at the nut and bolt interface) and ensure that the nut does not rotate or tighten. Rotate the cage until the alignment mark on the cage lines up with the mark placed on the threaded post. Once aligned, press the cage against the derailleur body to secure the D interface, you should feel when the cage locks into place. You may need to wiggle the cage slightly to seat the engagement. Using the included 4 pronged tool, secure the center nut to a torque of 6Nm.

Note:

You can confirm the cage is installed completely when the center post threads protrude beyond the head of the mounting nut.



- 13.** Rotate the OSPW System cage forward and install the rotation stop screw with a 2.5mm hex key. Tighten to a torque of 3.0Nm.



- 14.** Install the 15 tooth pulley on the upper post and the 19 tooth pulley on the lower post of the OSPW cage. Ensure the etching on the pulleys face outwards (facing the cage plate with the logo). Align the back cage plate and use a 2.5mm allen key to install both pulley screws to a torque of 1Nm, and a 2.0mm allen key for the center and lower tower screws to a torque of 0.3Nm.



- 15.** Install the derailleur onto the bike. Shift down to the bottom (smallest cog) and install the rear wheel. Measure a new chain following the guide below and check the upper and lower stop screws as well as the b-limit adjustment following the factory SRAM guidelines; 14mm for a 26T cog, 10mm for a 28t cog, 5mm for a 33T cog.

Chain length

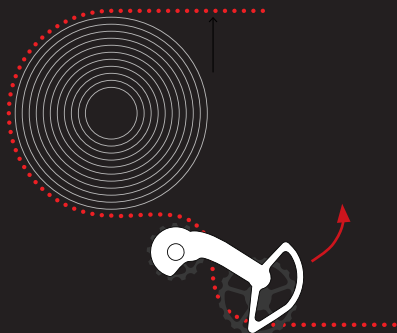
Test the present chain length acc. to the description below.
If it turns out to be necessary to change the chain length, follow the description below.



STEP 1: Place the chain on the smallest cog on the cassette and the small front chain ring. To find the correct chain length, pull the two chain ends together, just as you would when needing to cut a chain to length. 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, the chain needs to be cut (1 link shorter than step 1) and connected by the required amount of links in order to achieve sufficient tension in this gear combination (always the small cog on the cassette).



STEP 3: With the chain now cut to length it is important to test the clearance of the OSPW System when the rear derailleur is set in the largest cog on the cassette. Just as the arrow indicates the cage should be able to rotate counter clockwise. It is important that there is some 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.

Warranty Program

Thankfully, we do not have to deal with warranty issues often. Nevertheless, we are happy to introduce you to our comprehensive warranty program.

Lifetime warranty on OSPW cages and all coated products.

4 year warranty on standard bearing products.

Learn more on ceramicspeed.com - Support - Warranty Program

We are committed to manufacturing and delivering the best ceramic bearing products in the industry. Should your CeramicSpeed product not live up to your expectations, and this is caused by defects in materials and/or workmanship, we encourage you to contact us.