Mounting & Maintenance

OSPW X

For SRAM Eagle Mechanical and AXS

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.

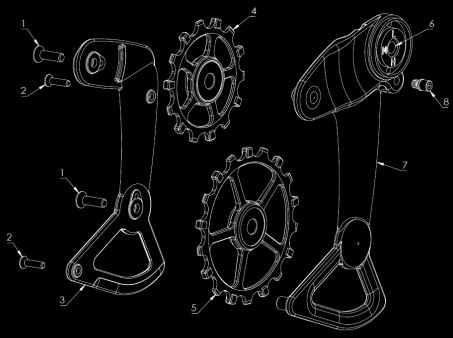
When travelling, your OSPW System will not fit in the bike travelling bag. We recommend that you dismount the whole rear derailleur and pack it aside.

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 X System for SRAM Eagle

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



Tools required

For the installation of your new CeramicSpeed Oversized Pulley Wheel X for SRAM Eagle Mechanical & AXS you will need the following tools:

A: 2,5mm Allen key
C: 3mm Allen key
D: Chain Tool
F: Torque wrench for 3Nm and 4Nm

Derailleur compatibility

The OSPW X cages fits all Eagle derailleurs regardless of the cage length. The cage compatibility is specific to either mechanical derailleurs, or a separate system for Eagle AXS derailleurs. The installation and setup is slightly different between the mechanical and AXS systems, these differences are called out below.

Cassette sizes

OSPW X is compatible for 10-52 tooth cassettes.

ATTENTION

To guarantee the best possible shifting performance with the OSPW X you must ensure that the cable & housing is setup correctly per the original manufacture's specification. Poor cable performance and/or housing routing from the shifter to the derailleur can impede accurate derailleur actuation.

Mounting Manual

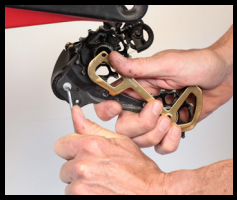
To ensure the very best in riding performance it is vital that your new OSPW X System is mounted correctly. Follow these instructions to install your OSPW X System for SRAM Eagle Mechanical and AXS:

1. Begin with your bike mounted in a stand. Shift up 2-3 gears.

2. Remove the chain and the rear wheel.

3. Rotate the stock pulley cage forward and engage the Cage Lock. Remove the stop screw with a 3mm Allen Key, this will not be reused.

4. Hold the cage and release the cage lock, and unwind the cage 360° (counter clockwise seen from front of rear derailleur) to release the spring tension.



5. Loosen the original main mounting screw with a 3mm Allen key and remove the original cage.

You will reuse the factory cage mounting screw for the mechanical system. For the AXS system you will use a new, included, mounting bolt.

6. Remove the plastic cap if it did not come off with the derailleur cage and set aside (Not to be used with OSPW X). You should now see the pulley cage tension spring.

7. Unbox the OSPW and remove the silver CeramicSpeed stop screw with a 2,5mm Allen key (to be reused). For the AXS system, take note of the replacement mounting bolt to complete installation.

8. There are 3 holes for spring tension. We recommend Medium tension setting (marked 'M' at the interface) to minimize drive train friction & provide necessary chain tension.

Please move the spring tension to 'H' (high) if you experience any issues such as slow shifting response or repeatedly drop a chain.

9. Once the spring tension setting is selected, align the OSPW X, spring and derailleur body together.

Mechanical and AXS GX: Install the factory cage mounting bolt and torque to 4Nm*.

AXS XX1 and X01: Install the included Ceramic-Speed mounting bolt and torque to 4Nm*.

Rotate the cage back and forth to ensure a smooth movement without binding.

10. Turn the cage clockwise (seen from front of rear derailleur) and increase the spring tension and secure the cage with the Cage Lock.

Install the CeramicSpeed stop screw with a 2,5mm Allen key (torque to 3Nm).

11. Recommendation on upper pulley clearance on the largest cog (adjusting of B-limit) = 15mm.

You may reuse the existing chain if desired & the chain is still in good condition.

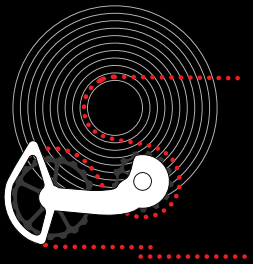
For a new chain installation, please follow the chain length guide below:

*In rare circumstances, you may need to access the clutch from the face of the derailleur to secure the cage bolt to 4nm. To do this, remove the outer clutch cover on AXS derailleurs by removing the phillips screw located on the back of the derailleur body next to the main body spring. For mechanical derailleurs, continue to the next step. Next, remove the inner clutch cover with a T25 torx, providing access to the clutch and hold stable with a 4mm allen key. Once the cage is secured, reassemble the clutch covers.

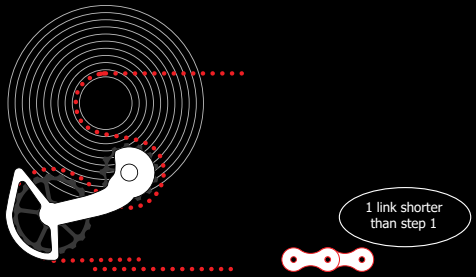
Chain length

If you are using a 44 tooth or larger chain ring you may not be able to overlap the ends of the chain for measurment. You do not need to add any links to a stock chain, a full length chain is sufficent for use.

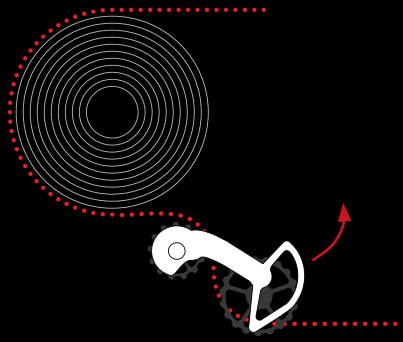
Recommendation on upper pulley clearance on the largest cog (adjusting of B-limit) = 10-15mm depending on cassette size.



STEP 1: Place the chain on the smallest cog on the cassette. 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 X 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 X 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 X 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.