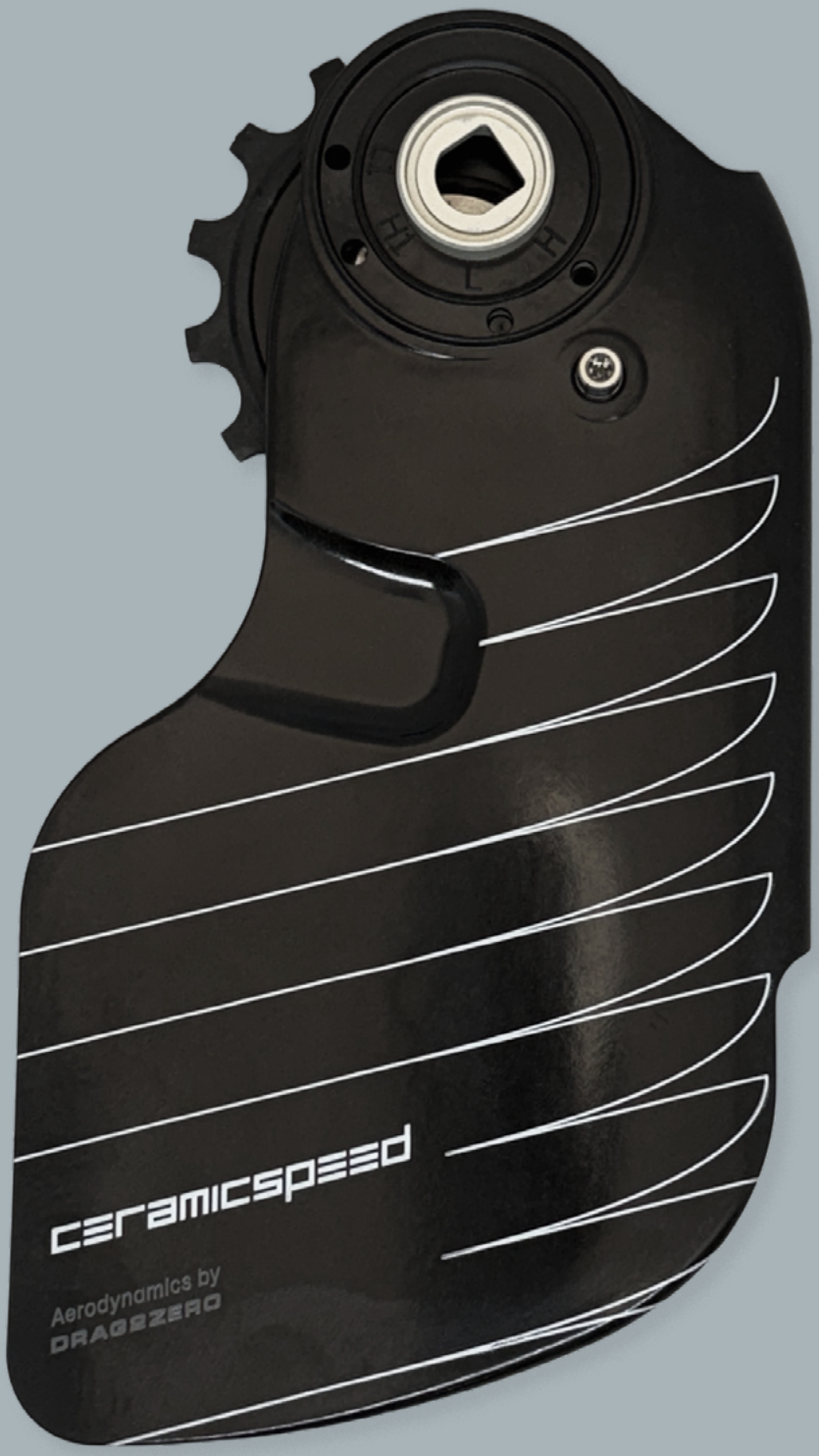


Installation and Maintenance

OSPW Aero ALPHA for SRAM Red D1/E1 + Force D1 V3

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.

We recommend the use of CeramicSpeed Oil on the OSPW RS 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.





For the ALPHA Disc pulley with ADR, maintenance of the bearings should occur at least one to two times per year, every 10.000 km/6.000 miles in normal conditions, or every 5.000 km/3.000 miles in extreme or harsh conditions.

Remove the back side cage plate & both pulleys to clean all components thoroughly. With the ADR shields removed, carefully remove the bearing seals and flush the bearings following the UFO Bearing Cleaner instructions.

Apply a few drops of UFO Pulley Oil and reinstall the pulley seals. Take careful note of the rotation direction of the pulleys with ADR when reinstalling into the cage. The cage tower bolts are torqued to 1,5Nm.

For the 5-Spoke alloy pulleys, maintenance of the bearings should occur at least two to three times per year, every 5.000 km/3.000 miles in normal conditions, or every 3.000 km/1.800 miles in extreme or harsh conditions.

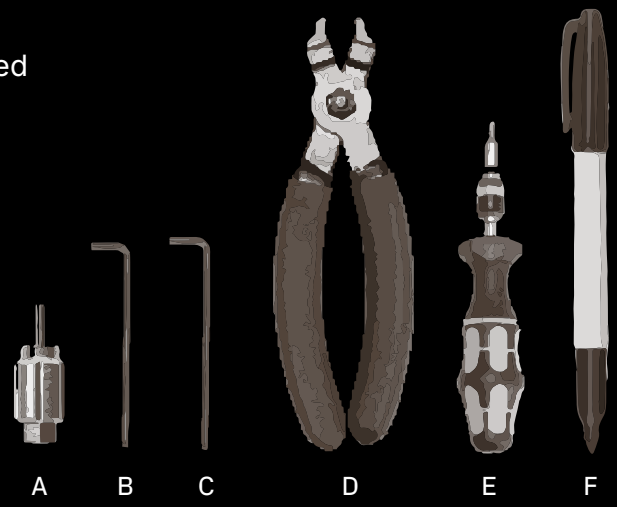
Remove the back side cage plate & both pulleys to clean all components thoroughly. Carefully remove the bearing seals and flush the bearings following the UFO Bearing Cleaner instructions. Apply a few drops of UFO Pulley Oil and reinstall the pulley seals. Take careful note of the rotation direction of the pulleys when reinstalling into the cage. The cage tower bolts are torqued to 1,5Nm.



TOOLS REQUIRED

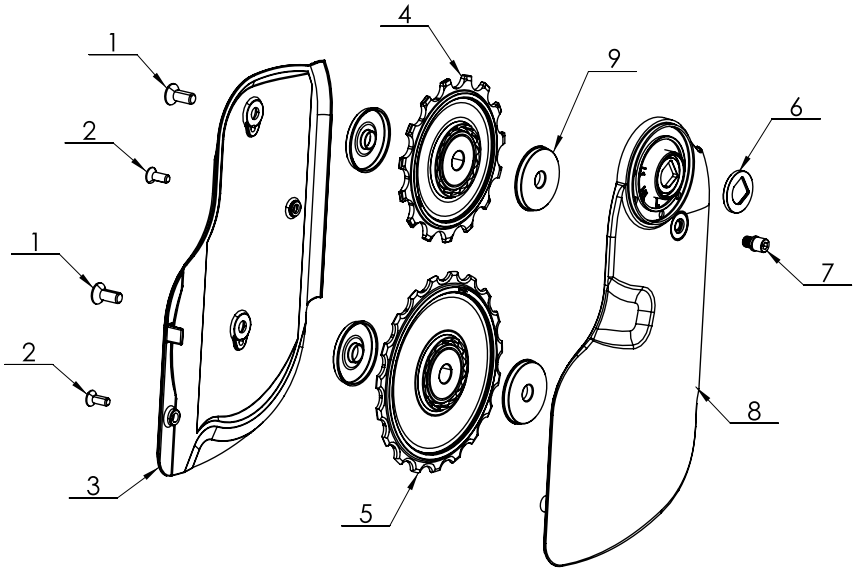
For the installation of your new CeramicSpeed Oversized Pulley Wheel System Aero ALPHA for SRAM RED D1/E1 + Force D1/D2 AXS you will need you will need the following tools:

A. CeramicSpeed supplied 4 prong tool for main Installation nut
B. 2mm Allen key
C. 2,5mm Allen key
D. Chain Tool
E. Torque wrench (0,3 and 1 Nm)
F. Marker in good condition



INSTALLATION OF THE CERAMICSPEED OVERSIZED PULLEY WHEEL SYSTEM AERO ALPHA FOR SRAM RED D1/E1 + FORCE D1/D2 AXS

Pos.	Description
1	Pulley wheel bolts
2	Tower bolts
3	Back cage plate
4	Upper pulley
5	Lower pulley
6	D-shaped interface washer
7	Rotation stop screw
8	Front cage plate
9	Stainless steel ADR dust shields



INSTALLATION MANUAL

To ensure the very best in riding performance it is vital that your new OSPW System is installed correctly. Follow these instructions to install your OSPW Aero ALPHA for SRAM RED D1/E1 + Force D1/D2 AXS:

1



Begin with your bike installed in a stand. Shift the derailleur up so that the cage can rotate past the body. Remove the rear wheel.

2



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

3



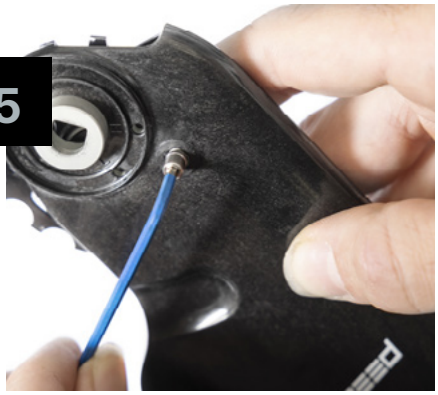
Hold the stock pulley cage (not just the derailleur) and loosen the main center nut with the CeramicSpeed special tool but do not completely remove the Installation nut. When the center nut is loose enough, allow the rotation stop screw to move past the stop point on the derailleur body to release the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

4



Remove the main center nut and the stock cage. There will be a small ainstall 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 installed). Dissasemble 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



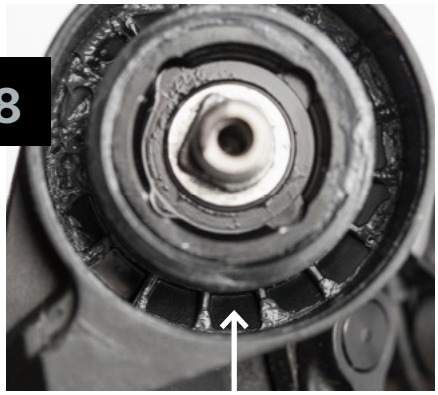
Using the OSPW Aero front cage plate, rotate the D-shaped center post inside the derailleur counter clock wise until it stops. Using a marker, mark the end of the center post along the same line as shown on the back of the OSPW Aero cage plate. Remove the OSPW Aero cage plate.

7



Place the d-shaped washer onto the derailleur mounting post with the raised edge facing out. Ensure the flat edge of the washer is aligned with the flat edge of the derailleur mounting post.

8

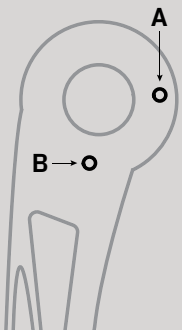


Install the factory spring into the derailleur body. Be careful to place the spring post into the correct hole; Note: The correct hole is deeper than all others. Ensure the spring sits completely into the derailleur body all the way around.

9



Align the OSPW RS System cage plate with the back of the derailleur, inserting the spring post into the low (L or L1 based on compatibility from **page 3**, tension setting on the cage . Do not worry about aligning the D shaped interface



NOTE

Starting in Q4-2025 SRAM RED E1 derailleurs feature a revised spring hole location.

Derailleurs with the spring hole ‘A’ must use spring tension holes H or L and are compatible with all OSPW models for SRAM Red D1/ForceD1 + Red E1.

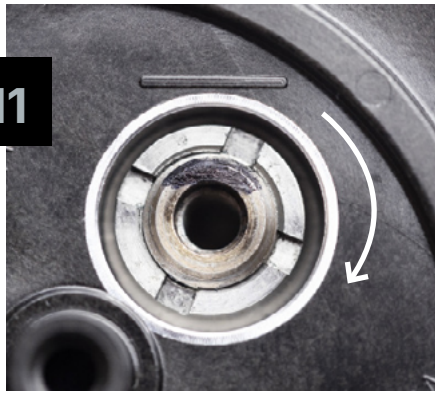
Derailleurs with the spring hole ‘B’ must use the spring tension holes H1 or L1, found on cages shipped starting Q1-2026. If your derailleur is a Red E1 model with the spring hole located as shown at ‘B’, write **cycling@ceramicspeed.com** to get an updated cage plate.

10



Thread the original cage nut on the center screw into place using the provided 4 prong tool. Finger tighten the nut until firm, and then unthread less than a quarter turn.

11



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 engagment. 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 Installation nut.

12



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.

13



Install the 15 tooth pulley on the upper post and the 19 tooth pulley on the lower post of the OSPW Aero cage. Ensure the etching on the pulleys face outward (facing the cage plate with the logo). Align the back cage plate & install the 2.5mm screws for each pulley to a torque of 1.5Nm, and the 2.0mm screw for the center and lower towers to a torque of 0.9Nm

14



Install the derailleur onto the bike. Shift down to the bottom (smallest cog) and install the rear wheel. To install the chain, hold the cage back to be horizontal to the ground. Feed the chain from the back of the cage, between the pulleys aiming to exit the cage in front of the upper pulley. Pull half the chain through the system.

15



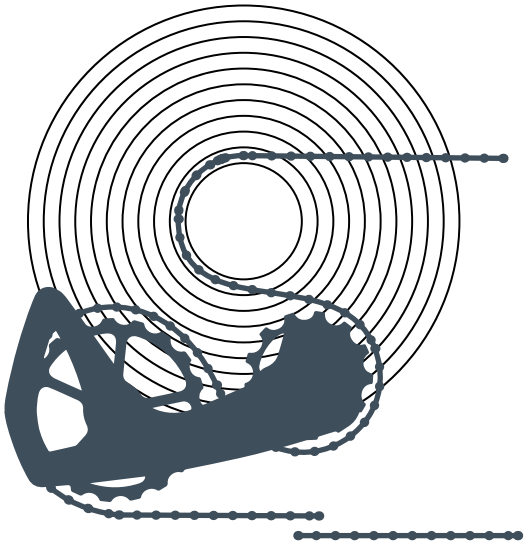
Ensure the remainder of the chain is not twisted, and feed the free end into the back of the cage and around the lower pulley.

16

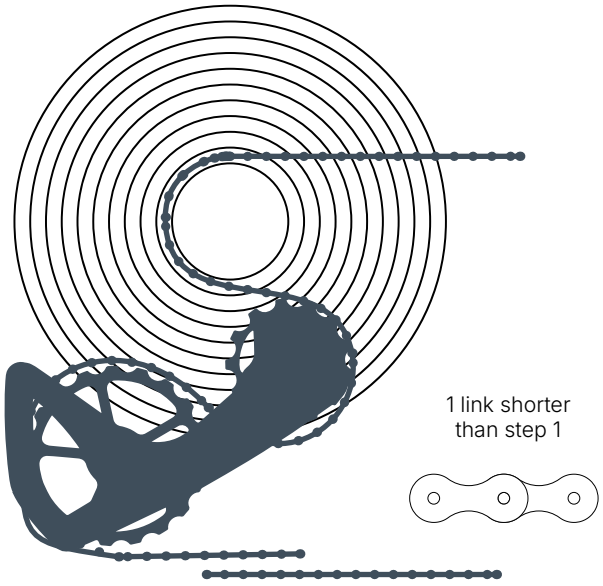


Install the derailleur onto the bike. Shift down to the bottom (smallest cog) and install the rear wheel. Follow the chain length guide below to cut the chain to the appropriate length. Ensure the derailleur hanger is accurately aligned, check the upper and lower stops of the derailleur, and set the b-limit gap following the factory SRAM guidelines; 14mm for a 26T cog, 10mm for a 28t cog, 5mm for a 33T or 36T cog. Adjust the trim for proper alignment between the cogs and pulley wheels. Confirm successful shifting through all gear combinations. If in doubt, have a qualified mechanic make the final gear adjustments.

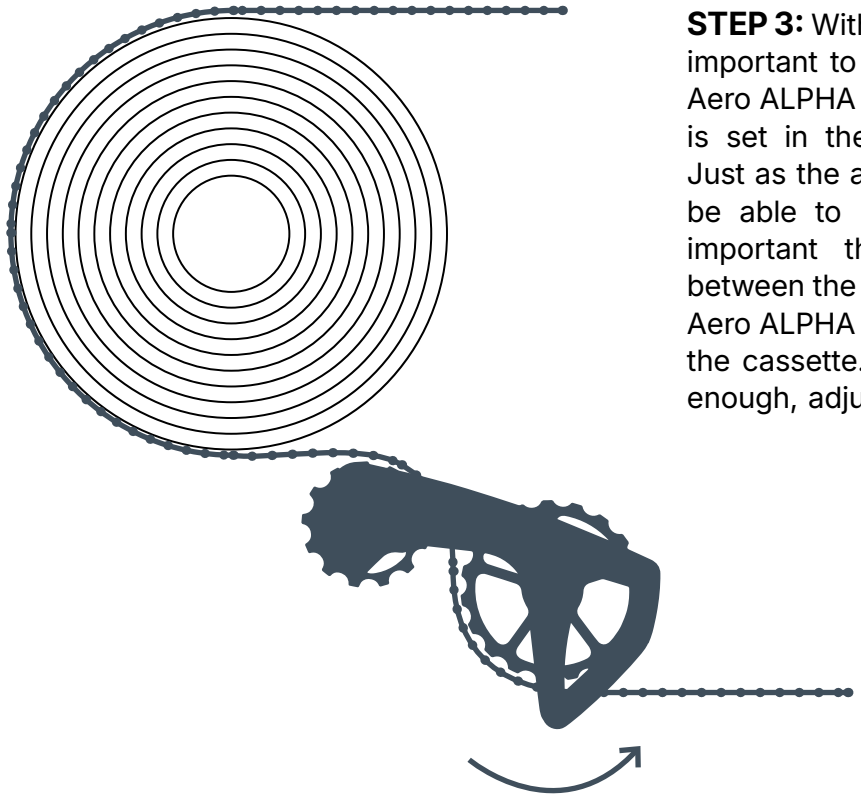
Test the present chain length acc. to the description below. If it turns out to be necessary to change the chain length, follow the description below.



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 Aero ALPHA System appears to be aligned as the diagram on the left, the chain needs to be cut (1 link shorter than step 1) and connected by the required ainstall 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 Aero ALPHA 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 Aero ALPHA System and the largest cog on the cassette. If you find the clearance is not enough, adjust the B-tension accordingly.

UP TO A LIFETIME WARRANTY

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 products
(current products)

BB ALPHA

ALPHA Disc OSPW Systems

All OSPW Cages

ALPHA Pulley Wheels

SLT OHD Headsets

SLT OPD Pivot bearings

Please note that discountinued products still include their warranty. 4 year warranty products include: Headsets, Oversized Pulley Wheel Systems, Pulley Wheels, Single Bearings and Wheel Kits.

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.

Registeryour product within the first 30 days of purchase by clicking here or go to ceramicspeed.com/cycling under the section Support. Should you thereafter, and within the warranty period need to file a claim, please return to the same section on our website and fill in your claim. We will always strive to revert to you concerning your claim within 24 hours.