


# Mounting and Maintenance

OSPW RS 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.

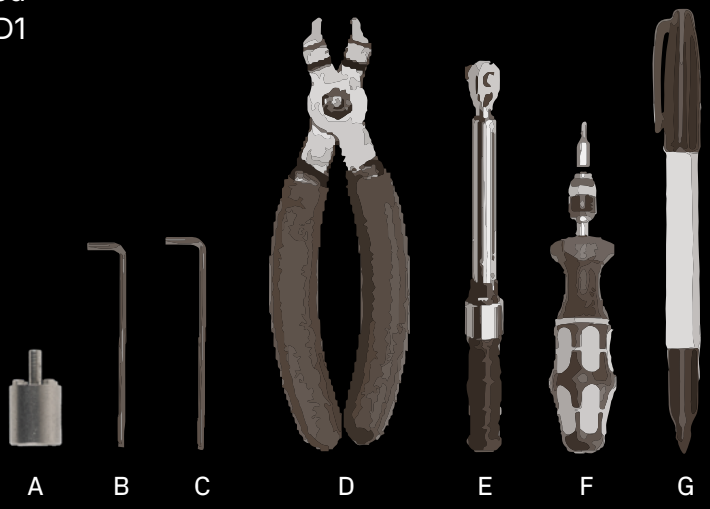
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## TOOLS REQUIRED

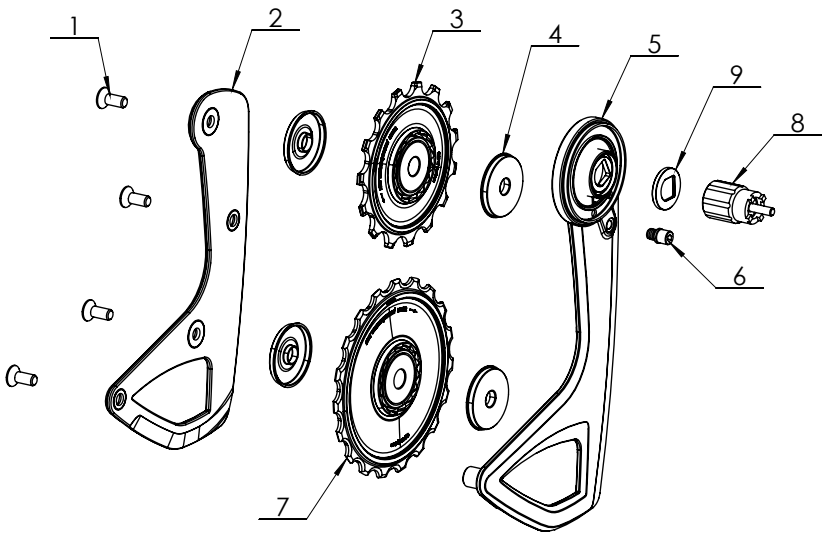
For the installation of your new CeramicSpeed OSPW RS system for SRAM Red D1/E1 + Force D1 you will need the following tools:

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 (1,5 Nm)
G. Marker in good condition




## MOUNTING THE CERAMICSPEED OVERSIZED PULLEY WHEEL SYSTEM RS FOR SRAM RED/FORCE AXS ETAP

| Pos. | Description |
|---|---|
| 1 | Cage bolts |
| 2 | Back cage plate |
| 3 | 15T Upper ALPHA Disc |
| 4 | Stainless steel ADR Dust Cover |
| 5 | Shield Front cage plate |
| 6 | Rotation stop screw |
| 7 | 19T Lower ALPHA Disc |
| 8 | Tool to remove OE SRAM AXS mounting bolt |
| 9 | D shaped washer |




**NOTE**

5-spoke allow pulleys have stainless steel bushing to fit pulley post and no ADR dust shields.

# MOUNTING MANUAL

To ensure the very best in riding performance it is vital that your new OSPW RS System is mounted correctly. Follow these instructions to install your OSPW RS 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



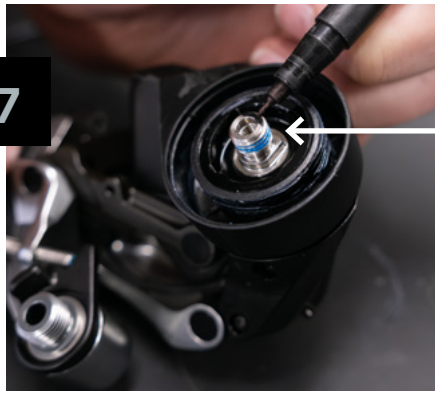

Unbox the CeramicSpeed OSPW RS system and remove the rotation stop screw (to be reinstalled once the cage is mounted). Dissasemble the OSPW RS System by removing all 4 bolts from the back of the OSPW RS System. Set aside the 4 bolts, back cage plate, and both pulley wheels.

6



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

7



Mark the center screw end with a market to identify the flat surface of the D-shaped interface 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**



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.

**10**



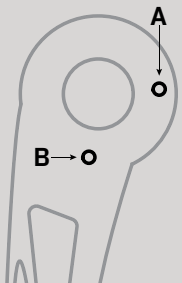
Mount the factory spring into the deraillur body. Be careful to place the spring post into the correct hole.

Note: one hole is deeper than all others (see picture). Ensure the spring sits completely into the derailleur body all the way around.

**11**




Align the OSPW RS cage plate with the back of the derailleur, inserting the spring post into the desired spring tension setting on the cage. Do not worry about aligning the D shaped interface. For general paved road riding, use L or L1 for best efficiency. For mixed surface and rougher riding, use H or H1 for best chain retention.




**NOTE**

Derailleurs with the spring hole 'A' must use spring tension holes H1 or L1.

Derailleurs with the spring hole 'B' must use the spring tension holes H or L.

12




Place the cage on the center screw and using the provided 4 prong tool thread the center mounting nut into place. Finger tighten the nut until firm, and then unthread less than a quarter turn. The D-interface will not be aligned at this point.

13




Rotate the cage according to the ‘wind spring’ arrow, until the alignment mark on the cage lines up with the mark placed on the threaded post.

Once aligned, press and wiggle the cage against the derailleur body to secure the D interface until you feel when the cage secured one the orbit clutch. Using the included 4 pronged tool, secure the center nut to a torque of 6Nm.

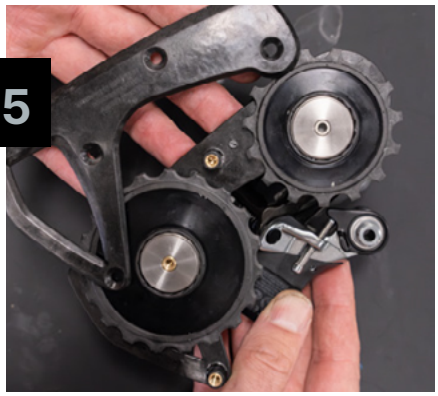
Note: Confirm the cage is installed completely when the center post threads protrude beyond the head of the mounting nut.

14



Rotate the OSPW RS System cage forward and install the rotation stop screw with a 2.5mm hex key. Tighten to a torque of 1.5Nm.

15



Install the 15 tooth pulley on the upper post and the 19 tooth pulley on the lower post of the OSPW RS cage, ensuring all four ADR shields are in place correctly and the pulleys are installed with the etching facing outward (toward the Front cage plate). Align the back cage plate and install the four 2.0mm cage bolts to a torque of 1.5Nm.

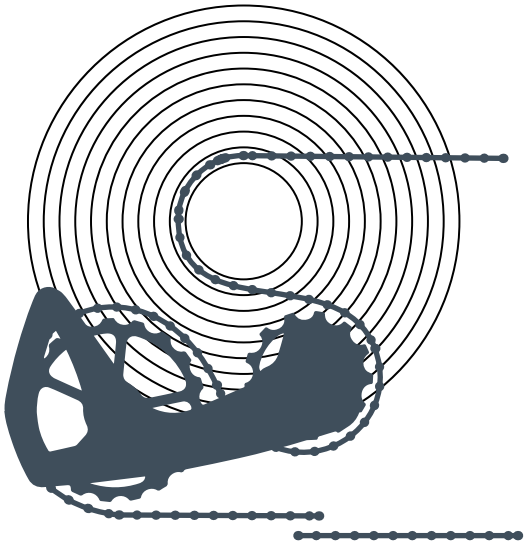
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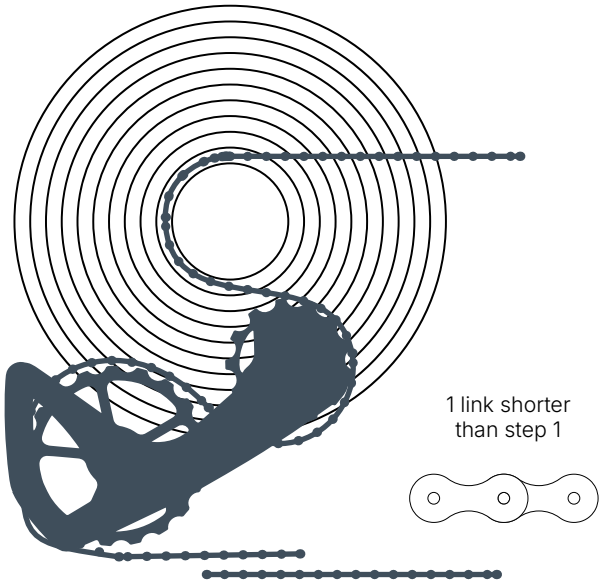

Install the derailleur onto the bike. Shift down to the bottom (smallest cog) and install the rear wheel. Measure a new chain following the guide below and check the upper and lower stop screws as well at the b-limit adjustment following the factory SRAM guidelines; 14mm for a 26T cog, 10mm for a 28T cog, and 5mm for a 33T or 36T cog.

For troubleshooting tips, please visit **here** or scan the QR-code.

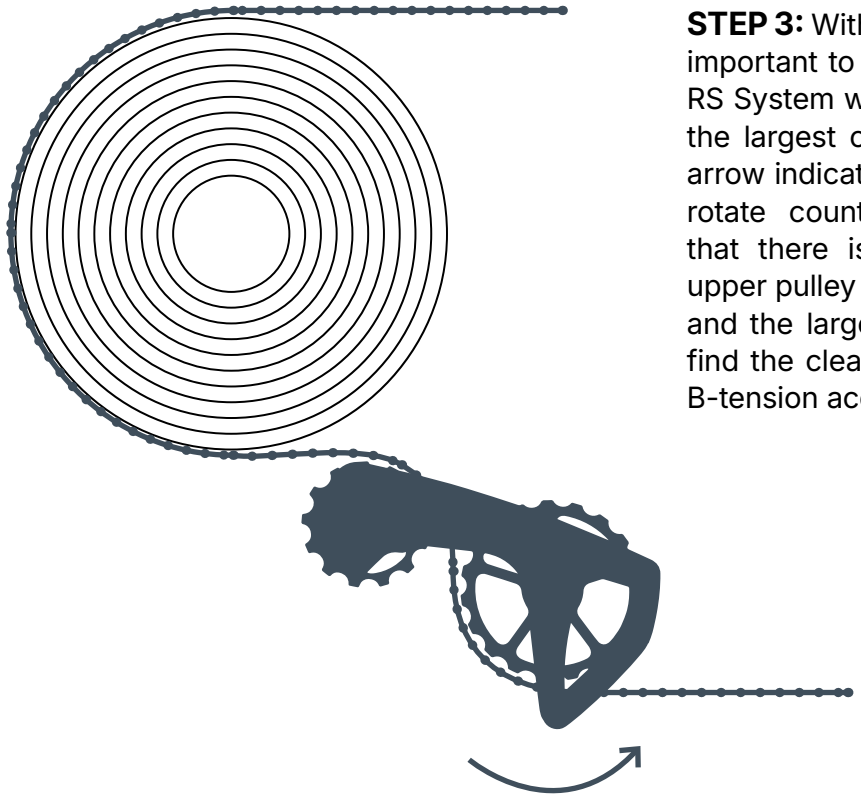
Test the present chain length acc. to the description below. If it turns out to be necessary to change the chain length, follow the description below.



**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 RS 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 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 RS 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 RS 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.

| **Standard products 4 years** | **Lifetime warranty products** |
|---|---|
| Headsets | BB ALPHA |
| Oversized Pulley Wheel Systems | ALPHA Disc OSPW Systems |
| Pulley Wheels | All OSPW Cages |
| Single Bearings | Coated Headsets |
| Wheel Kits | Coated OSPW Systems |
| | Coated Pulley Wheels |
| | Coated Single bearings |
| | Coated Wheel Kits |
| | SLT OHD Headsets |
| | SLT OPD Pivot bearings |

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.