

---

# Mounting & Maintenance

Oversize Pulley Wheel System  
for Shimano DA 9100 & Ultegra 8000



**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](http://ceramicspeed.com) in the Support section.

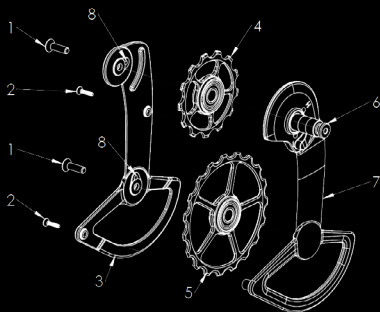
**When travelling**, your OSPW System will not fit in the bike travelling bag. We recommend that you dismount the whole rear derailleur and pack it aside.

## 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 Shimano DA 9100 & Ultegra 8000 with integrated stop tower

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	Pulley wheel lubrication points



## Tools required

For the installation of your new CeramicSpeed Oversized Pulley Wheel DA 9100 & Ultegra 8000 you will need the following tools:

- A. Chain Tool
- B. T10 Torx® Screwdriver
- C. Philips screwdriver no. 2



A



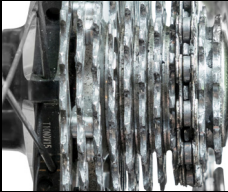
B



C

# 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 Shimano DA 9100 & Ultegra 8000 with integrated stop tower:



1. Begin with your bike mounted in a stand and remove the rear wheel.



2. Remove the chain with a proper chain tool. Upon completion of installing the OSPW System you will need to use a new, longer chain. Note: it is not recommended to add links to a previously ridden chain.



3. Then shift the derailleur up, past the cable routing point. Using one hand to rotate down the front pulley cage plate (A), locate and remove the Philips head pulley cage stop screw (B). Carefully allow the pulley cage spring to unwind, releasing the spring tension. Your derailleur cage will appear to be upside down (C).



4. Locate the black mounting screw on the bottom of the derailleur body. Use a T10 Torx screwdriver to remove the black T10 mounting screw. Only half of the screw is threaded. Once the screw is about 1 cm out and the threads are not engaged, slide the screw the rest of the way out with your hand.



5. Slide out the original pulley cage and spring assembly, careful not to drop the pulley spring and plastic spacer.



6. Remove the spring and plastic spacer from the Shimano cage. The end of the spring is hooked to lock into the pulley cage. Keep the aside as you will reuse these for the installation of the OSPW System.



7. Unpack the OSPW System.



8. Place the original spring and plastic spacer over the mounting post of the OSPW System in the same manner they were removed from the stock cage. The hooked end goes toward the OSPW cage as well as the flat edge of the plastic spacer.



9. Note the four spring tension settings on the OSPW cage: from H (high) to L (low). The L tension setting will reduce both chain tension and friction, but will also result in slightly compromised shifting performance. The H tension setting provides the best in shifting performance, yet it will increase friction performance slightly over other tension settings.



- 10.** Select the spring tension hole next to 'L' (second lowest tension) and insert the hooked end of the spring completely. This may need to be pressed firmly. The plastic spacer will rest freely on the spring until aligned at the back of the derailleur body.



- 11.** Rotate the derailleur body back, align the mounting post of the OSPW System with the back of the derailleur body and the cage pointing to the front of the bike. Align the tension spring and plastic spacer with the squared slot on the derailleur body and insert until the cage is flush to the derailleur. Ensure the OSPW cage rotates smoothly and the spring is properly situated.



- 12.** Hold the OSPW cage against the derailleur body and rotate counter-clockwise (first up and then to the back of the bike and downward) until you feel the ramped stop tower click past the stop point on the derailleur.



- 13.** Secure the cage by reinstalling the original black T10 screw (removed at step 3). Installation torque is 1Nm.



- 14.** Your new OSPW System is now installed. Shift the derailleur down to the bottom and install a new chain. For 53 tooth chainrings and larger, start with a 114 link chain. For 52 tooth chainrings and smaller, start with a 112 link chain. Specific adjustments may need required depending on the specific cassette size and chain stay length on your bike.



15. Install the rear wheel and check upper and lower stops of the derailleur. Adjust the limit screws as needed, as well as any cable tension or Di2 trim adjustments for proper alignment between the cogs and pulley wheels.



16. Take note of the spacing between upper pulley and the top of the cassette and keep this at around 5 mm or less. The appropriate clearance will depend on your frame geometry, cassette size and gear drop geometry. Pay extra attention to the gear drop when finishing up mounting your OSPW System and make sure that it is aligned. If in doubt, have a mechanic make the final gear fittings. NB: For the best result use original Shimano Ultegra or Dura-Ace Cassette (max 32/11T).

### **Spring tension:**

For the initial setup you should select the spring tension hole next to L (second lowest tension). This provides the best balance between low tension/resistance and optimal shifting under standard conditions. If shifting response is too slow, and/or if you ride on rough surfaces (cobble roads, rough gravel, or cyclocross), you may change the spring position to a higher tension at or next to H.

### **Recommended chain length:**

53/39 chain rings and 11-(23-32) cassette: 114 links.

50/34 chain rings and 11-(23-32) cassette: 112 links.

# 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](https://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.