

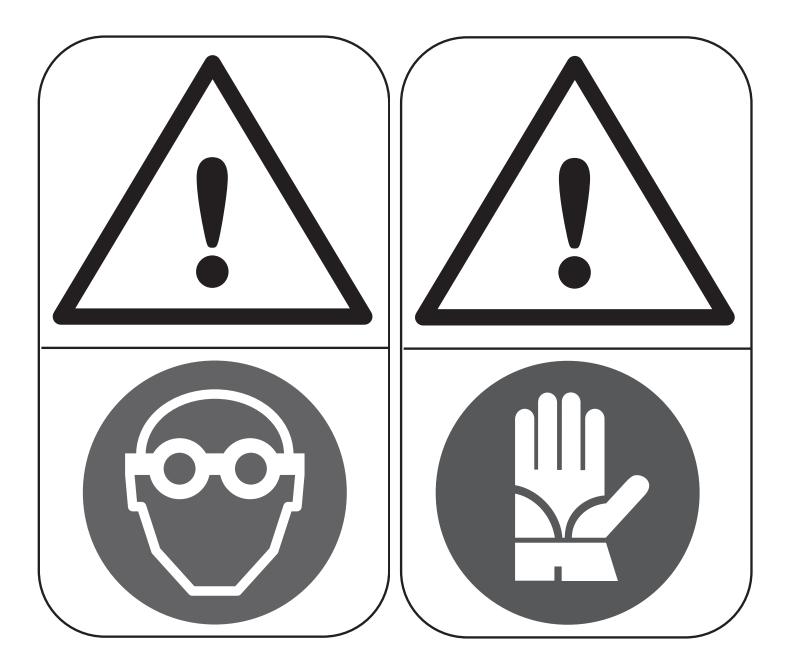
MAINTENANCE CARDS ROAD WHEELS

REMOVAL AND REASSEMBLY OF THE FRONT HUB

CAMPAGNOLO.COM

WARNING!

Always wear protective gloves and glasses while working on the bicycle.



THIS TECHNICAL MANUAL IS INTENDED FOR USE BY PROFESSIONAL MECHANICS.

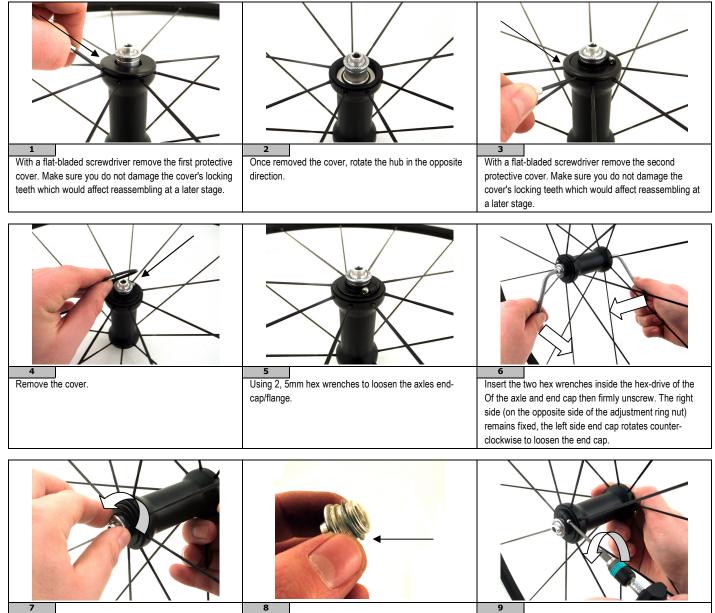
Anyone who is not a qualified professional for bicycle assembly must not attempt to install and operate on the components independently due to the risk of carrying out incorrect operations which could cause the components to malfunction, resulting in accidents, physical injury or even death.

The actual product may differ from what is illustrated, as the specific purpose of these instructions is to explain the procedures for using the component.

∕!\

MAINTENANCE CARDS

WHEELS	ТҮРЕ			OPERATION	REVISION	DESCRIPTION		
ROAD	CONE / CUP			002	09/11/ 2023	REMOVAL AND REASSEMBLY OF THE FRONT HUB		
PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED								
GHIBLI™	BORA ONE/ BORA (family) (up to 2014		HYPERON™ (family)	NEUTRON™ ULTRA	SHAMAL [™] - rim (family) (up to 2014)	EURUS™	ZONDA™ (up to 2016)	BULLET ULTRA (family)
Phase 9 to 74 and 82-83	BORA™ - DB (family)	BORA™WTO - DB (family)	BORA [™] ULTRA WTO - DB	HYPERON [™] - DB HYPERON [™] ULTRA - DB	SHAMAL [™] - DB (family)	LEVANTE™		



Loosen end cap (adjustment ring nut side).

8 While removing the end cap, make sure you do not lose the spacer.

Use a screwdriver with a 2.5mm hexagon insert to loosen the screw of the adjustment ring nut.

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The indication that the adjustment ring nut will be loosened will be when the slot in the nut has a visible gap. Do not remove the screw from the adjustment ring nut.



Push the axle into the hub body until it reaches the other side.



Holding the axle stationary, rotate the adjustment ring nut counter-clockwise to remove the adjustment ring nut.

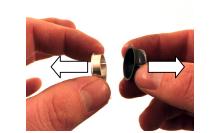


After removing the adjustment ring nut, you will see the cone and adjustment cone that we will remove in the next stage.



The axle will easily come out from the opposite side.





16 Protect all the components so that they do not get dirty to prevent any issues during reassembly.

- 17

 Remove the cone from the axle.

 ► To replace the spokes see OPERATION 003
- ► To replace the cones/cups, carry on until the end of the procedure.



Remove the grease shield by using a small standard screwdriver. Repeat on the opposite side.

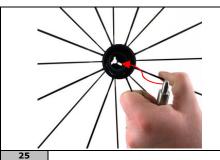


handling may cause the bearings to detach from the ring.

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The cup pulling tool consists of two items. A specific stripper for road cups and a punch.



Insert the punch from the opposite side and fasten in the designated hole.



Insert the stripper inside the cup the cup that needs to be removed.



Once inserted correctly the stripper remains still without operator assistance. Rotate the hub in the opposite direction.

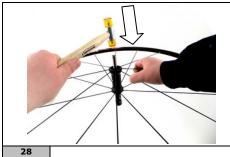
24



Using a 12oz peen hammer, deliver solid precise blows to the striking end of the punch protruding from the hub shell.



Use care not to glance off of the punch as damage can occur to the wheel.



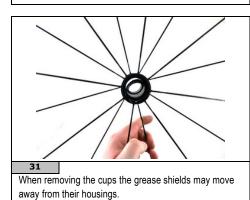
Continue to deliver blows to the punch until the cup is removed from the hub shell.



Take care to ensure that the cup stripper and punch are not propelled out of the hub when finally free of the hub shell.



Repeat from point 24 to remove the cup on the opposite side.

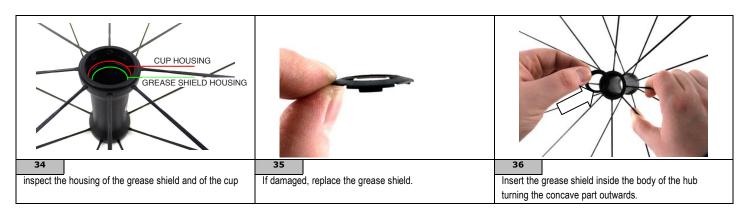


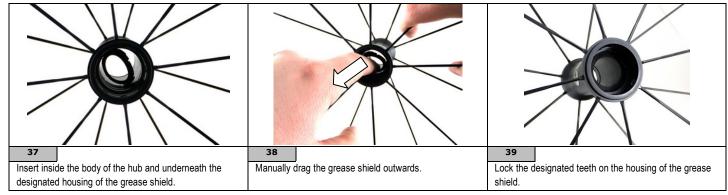


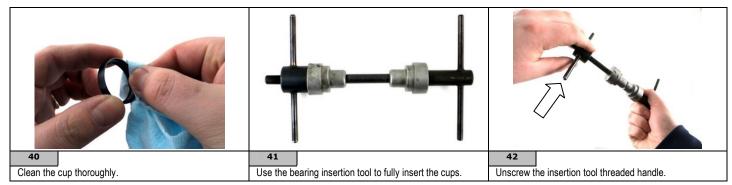
Remove the grease shields on both sides.

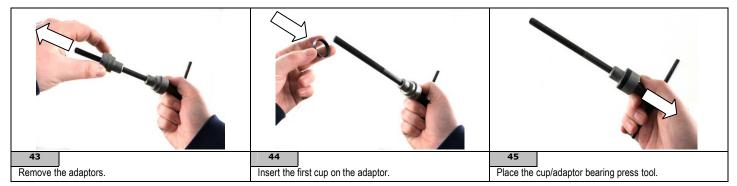


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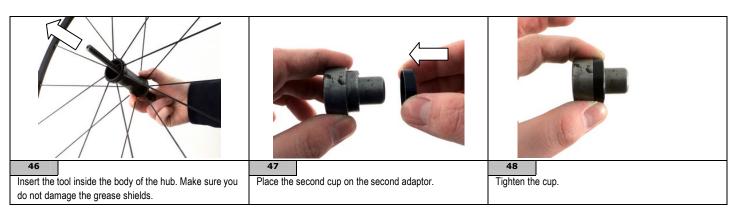


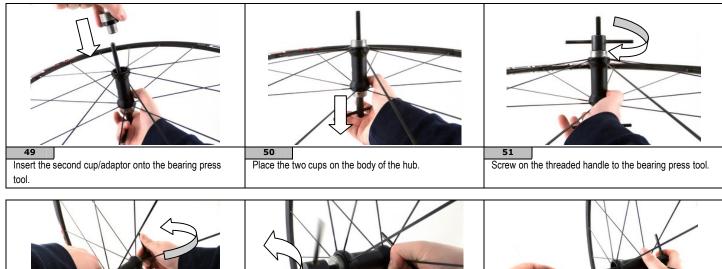






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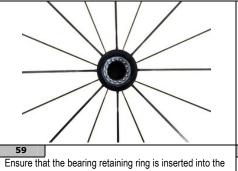






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cup with the ball bearings facing out.





The black part of the grease seal should face the inside of the hub's body.



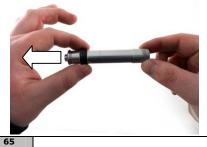
Insert the grease seal inside the corresponding notch in the cup of the hub.



Repeat on the opposite side (from 62 to 68).



Insert the adjustment cone on the axle.



Ensure that the cone seats properly onto the corresponding cone shape on the axle.



Insert the axle inside the right side of the hub body.



Check the cone is mates correctly into the bearing retaining ring.



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Rotate the hub by 180°.



Insert the second cone onto the axle following the direction it should be inserted in. The larger diameter should face the outside of the hub's body.

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retaining ring.

71

Insert the adjustment cone onto the axle mating into the cone from 69-70. The direction it should be inserted in. The larger diameter should face the outside of the hub's body.



Manipulate it into position by using a small screwdriver. Push the adjustment cone in by pressing on various points of the circumference.



Inspect the adjustment ring nut. If it is damaged, replace it.



Install and tighten the adjustment ring nut clockwise and hold the axle while holding the axle stationary with your right hand.



Inspect the axle end cap. If it is damaged, replace it. Insure that the small spacer is in place and install the end cap into the axle end.



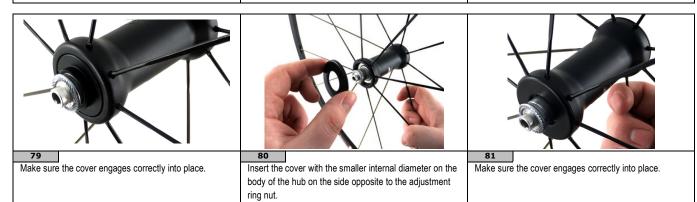
76 Screw the axle end cap clockwise.



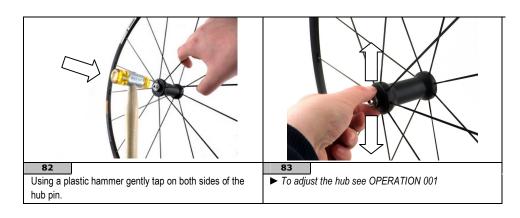
Insert the two 5mm hex wrenches inside the hexagons of the hub's body and tighten firmly. The right wrench (on the opposite side of the adjustment ring nut) remains fixed, the left wrench rotates clockwise.



Inspect the dust covers. If they are damaged, replace them. Insert the cover with the larger internal diameter on the body of the hub on the adjustment ring nut side.

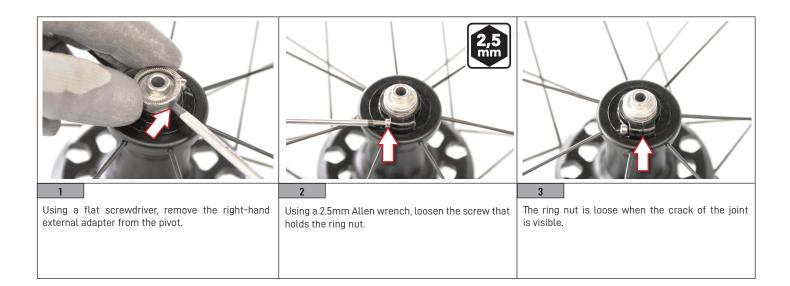


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GROUPSET	ТҮРЕ		OPERATION	REVISION	DESCRIPTION	
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PRODUCTS ON WHICH	THE PROCEDURE SHOULD B	E APPLIED				
BORA WTO	BORA ULTRA - BORA ONE (starting from 2015)	TRA m 2015)	SHAMAL MILLE (starting from 20)15)	ZONDA (starting from 2017)	
wheel axle Bora WTO - - Bora One / Ultra - Sh	utorial: "Removing the front - Zonda (starting from 2017) namal Ultra / Mille (starting on www.campagnolo.com, l section.		h step 10 p. 4 up to s le axle following th video tutorial.			

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PRODUCTS ON WH	PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED						
ZONDA [™] DISC BRAKE							



4 Working anti-clockwise, fully loosen the adjuster nut (holding the pivot stationary from the opposite side at the same time).	5 Remove the cone and the adjuster cone.	6 Take out the pivot from the left-hand side.

 At this point, proceed as described from point 18 to point 74 (from page 3 to page 9): operation 002 - REMOVAL AND REASSEMBLY OF THE FRONT HUB (STREET wheels). After carrying out all the operations listed from point 18 to point 74, complete the procedure by referring to operation 001 - ADJUSTING THE HUB. 	
7	