



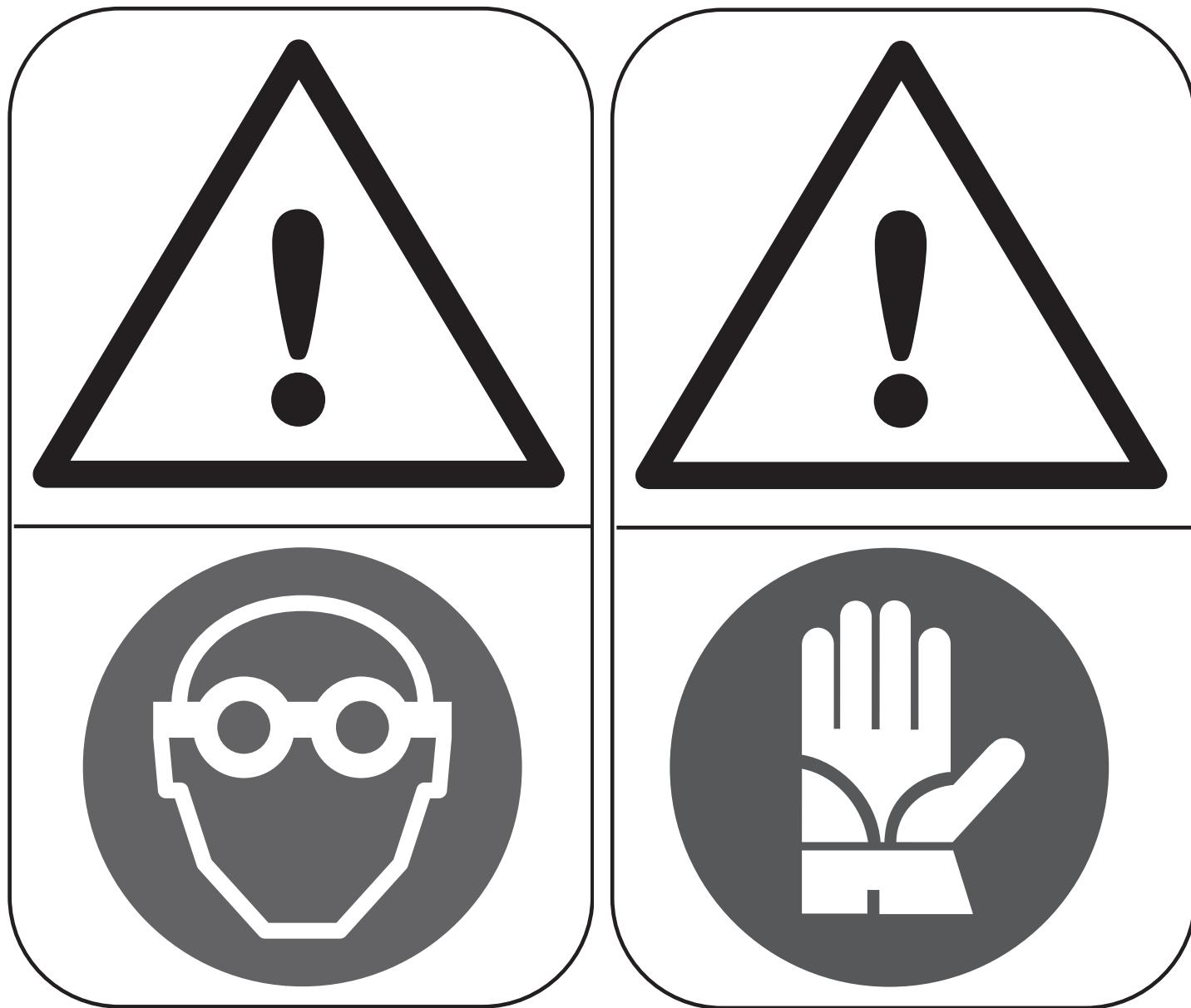
TECHNICAL MANUAL - 21

WHEELS

REPLACEMENT OF THE SPOKE (INNER RIM NIPPLES)

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.

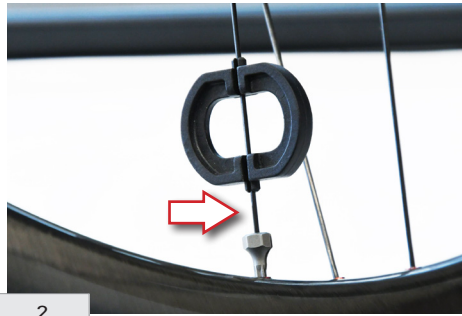

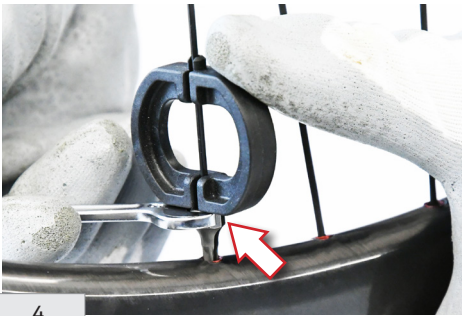
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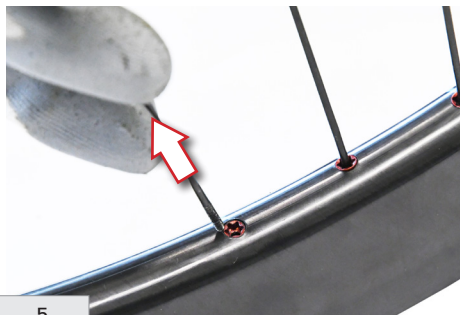
PROCEDURE	REVISION	DESCRIPTION
21	02/09/ 2024	REPLACEMENT OF THE SPOKE (INNER RIM NIPPLES)

PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED

Refer to the "Table of Technical Manuals for Wheels", available at www.campagnolo.com / section "Technical Documentation – Technical Manuals".

 <p>UT-WHBWU1</p>			 <p>1</p>
<p>Tools required:</p> <ul style="list-style-type: none"> • Spoke anti-rotation tool • Torx insert for nipple • Nipple insert for attracting magnet 	<ul style="list-style-type: none"> • Caliper • 8mm fixed wrench 		<p>Insert the torx insert into the nipple.</p>

 <p>2</p>	 <p>3</p>	 <p>4</p>
<p>Position the spoke anti-rotation tool in the corresponding spoke.</p>	<p>Lower the spoke anti-rotation tool and insert the guide cylinder into the nipple torx insert.</p>	<p>Maintaining pressure on the spoke anti-rotation tool and keeping it in place, turn the nipple torx insert with an 8 mm fixed wrench.</p>




 <p>5</p>		
<p>Turn the nipple until the spoke can be removed from the nipple and taken out of the hub. Follow the procedure in reverse order to install the new spoke.</p>	<p>The nipples are attached to the rim. If necessary, they can be replaced by following the "Spoke and inner nipple replacement procedure" described in the following chapter.</p>	



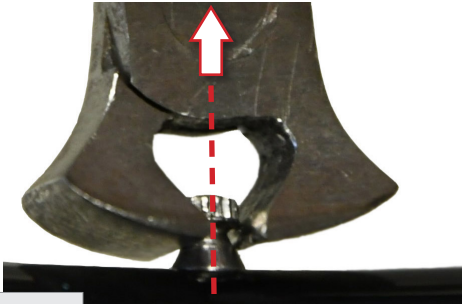
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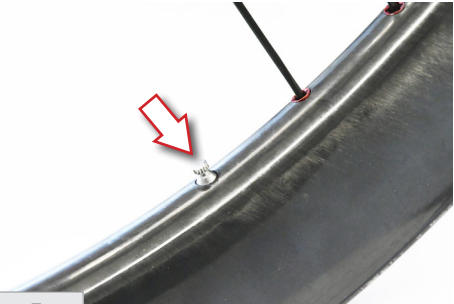
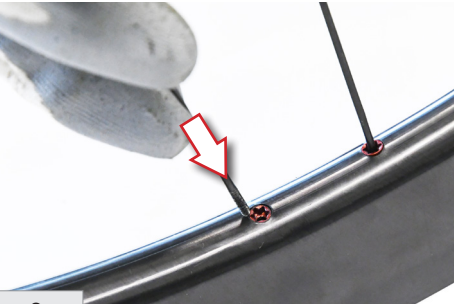
PROCEDURE	REVISION	DESCRIPTION
21	02/09/ 2024	REPLACEMENT OF THE SPOKE (INNER RIM NIPPLES)

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<p>1</p> <p>Push the nipple inwards until it disengages from the rim. Caution! Push the nipple along its axis to limit the risk of damaging the nipple housing.</p>	<p>2</p> <p>Pull the nipple out of the valve hole.</p>	<p>3</p> <p>Screw the nipple insert for attracting magnet into the new nipple.</p>

		
<p>4</p> <p>Insert the nipple through the valve hole.</p>	<p>5</p> <p>Drag the nipple with a magnet to the corresponding spoke hole.</p>	<p>6</p> <p>Using pliers, take the nipple insert for attracting magnet and pull along its axis until the nipple engages with the rim. Caution! Pull the nipple along its axis to limit the risk of damaging the nipple housing.</p>

		
<p>7</p> <p>Remove the nipple insert for attracting magnet.</p>	<p>8</p> <p>Follow the procedure in the previous chapter "Spoke and inner nipple replacement procedure" to install the spoke.</p>	