

Instruction 24: replace complete wheel



Information

Version	3.0
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Status	Released
Category	Public
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Applicable to	DXP, DXS, PAH
Implementation by	A, B & C partners/KYBURZ The work listed here is limited to C operations, and may be carried out independently by personnel with corresponding technical experience only. Operations outside this scope must be carried out by qualified A or B KYBURZ service partners.
Time required	5 min
Maintenance plan item	Complete wheel (4 spokes) 10.05 Complete wheel, tubeless (5 spokes) 10.07
Description	Complete wheel replacement
Important information	Please note the different procedures and material for front and rear axles.

1 Tools & material required

Tool


Quantity	Description	Part no.
1	Standard toolset	224040.00
1	Torque wrench, 85 Nm to 160 Nm	200312.00

Material






Quantity	Description	Part no.
1	Complete wheel, tubeless rim, with K82 pre-fitted tyre	219673.00
1	Steel wedge lock washer, M16/17/25.4/3.4/Nord Lock	516941.00
1	Intermediate rim washer, rear	930541.00
1	Reflector (round, orange)	020507.00
1	Wheel lock nut	990172.00
1	Wheel nut	020509.00

2 DXP front wheel change and PAH wheel change

	<p>Step 1:</p> <p>Park vehicle in a secure position. The wheel to be changed must be lifted at least 5 cm off the floor, using a lift.</p>
	<p>Step 2:</p> <p>Remove side reflectors.</p> <p><i>Screwdriver: Torx 25</i></p>
	<p>Step 3:</p> <p>Release M16 wheel nut using a 24mm nut and remove the wheel.</p>
	<p>Step 4:</p> <p>Place the new complete wheel on the toothing manually, and push it back up to the stop.</p>

 	<p>Step 5:</p> <p>Screw the NordLock washer onto the thread.</p> <p>Important: The coarsely serrated NordLock washer sides must face one another, and the finely ribbed sides must point outwards.</p> 
	<p>Step 6:</p> <p>Rotate the wheel nut manually at least 4 turns on the thread.</p> <p>Important: Screwing the wheel nut at a slant will damage the shaft thread, requiring replacement of the shaft.</p> 
	<p>Step 7:</p> <p>Tighten the wheel nut to a torque of 85 Nm.</p>
	<p>Step 8:</p> <p>After a brief test drive, check the tightening torque is still 85 Nm.</p> <p>Check that the brakes work.</p> <p>Check air pressure. Target: 3 bar</p> <p>Install side reflectors.</p>

3 DXP rear wheel change

	<p>Step 1:</p> <p>Park vehicle in a secure position. The wheel to be changed must be lifted at least 5cm off the floor, using a lift.</p>
	<p>Step 2:</p> <p>Remove side reflectors. <i>Screwdriver: Torx 25</i></p>
	<p>Step 3:</p> <p>Release wheel lock nut with a 24mm nut. Remove wheel.</p> <p>Important: The wheel lock nut will be reused → do not dispose of it.</p> 
	<p>Step 4:</p> <p>If no intermediate rim washer is installed, install one (art. no. 930541.00).</p>



Step 5:

Place the new complete wheel on the toothing manually, and push it back up to the stop (do not force it).



Step 6:

Rotate the wheel lock nut manually at least 4 turns on the thread.

Important:

Screwing the wheel lock nut at a slant will damage the shaft thread, requiring replacement of the shaft.



Step 7:

Tighten the wheel lock nut to a torque of 160 Nm.



Step 8:

Check the wheel lock nuts. To do so, release wheel lock nuts and listen for an audible click.

Important

If you don't hear a click, repeat the operation. If, after tightening and releasing several times, no click is heard, do not use the wheel lock nut, but instead replace it. Also check the new wheel lock nut.





Step 9:

Retighten the wheel lock nut to a torque of 160 Nm.



Step 10:

After a brief test drive, check the tightening torque is still 160 Nm.

Check that the brakes work.

Check air pressure. Target: 3 bar

Install side reflectors.

4 Tightening torques used, valid from 01/03/2016 for 4- and 5-spoke rims

Front wheel DXP	Rear wheel DXP	Trailer PAH
		
<p>85 Nm</p> 	<p>160 Nm</p> 	<p>85 Nm</p> 