

Procedure to change tyre on the BERINGER wheel 5.00-5 and 4.00-5

Dossier ref: MONT_R5_1

Equipment concern: wheel 5.00-5 and 4.00-5

Révision	Description	Date
2	Mod. of mounting procedures	15/09/2006
3	Mod. of mounting procedures	19/01/2007
4	Mod. of mounting procedures	21/02/2007

1) Preliminary:

Tools needed to change the tyre:

- click-type torque wrench
- Loctite 243 (blue)
- Thinner
- Tyre lubricant mounting "MICHELIN BIB'UP" www.bibup.com
- special tool OUT-AV-SUP-INT and OUT-AV-SUP-EXT (see drawing attached).
- conical aluminium tool to insert tyre on the wheel flange spacer.

2) Remove tyre procedure

1 Deflate tyre to zero pressure, unscrew the needle valve.

2 Separation the tyre from the 2 sides of the wheel:



- press with a vice till the tyre is separated
- turn 90° and press again
- turn again 90°, and again till the tyre is totally separated
- Use tyre mounting lubricant to facilitate separation of tyre.

- Turn the wheel and do the same operation as before
- Use tyre mounting lubricant to facilitate separation of tyre.

3 Check that the tyre is totally free from the wheel:
Tyre can rotate on the wheel by hand turning. It is recommended to spray a "Tyre mounting lubricant" to make the separation easier

- 4** Remove the 8 x M6 screws and lay them on the work-bench: see photos below



- 5** Extract the side of the wheel which has the disc brackets: see photos below



Pull up delicately by hand the side of wheel with disc brackets. No extra force need to be applied if the tyre is correctly separated

Return the whole wheel + tyre delicately

Be careful to the O-ring



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Remove tyre from the other 2 parts of the wheel: see photos below



Spray between tyre and wheel with
Tire mounting lubricant



Be careful this operation is delicate !

Pull up the tyre whereas pushing with thumbs

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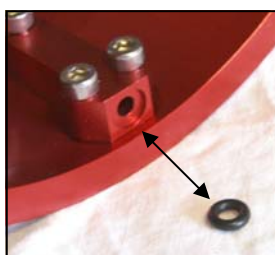
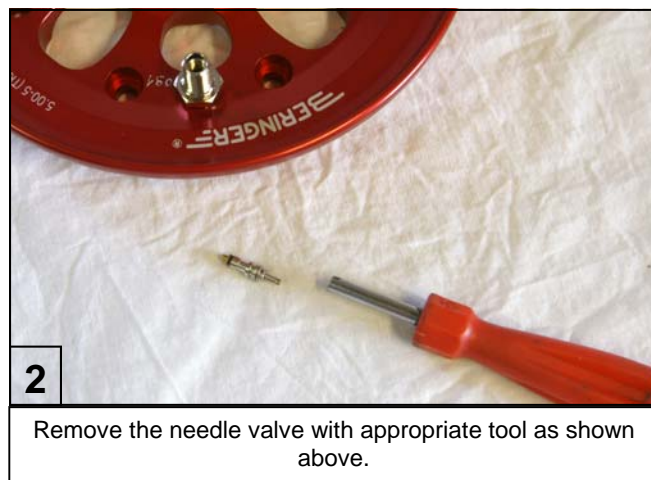
The tyre is removed, clean all the parts. Wheel is ready for mounting a new tyre: as below



3) Mounting new tyre procedure:

- Nota:
- Mounting the appropriate new tyre without the special tool : OUT-AV-SUP-INT and OUT-AV-SUP-EXT (see drawing attached) is not possible.
 - A proper mounting could not be guaranty without using this special tool.
 - The drawings are attached and can be used to make a tool.

All the parts must be clean and dry





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Clean all the parts
New O-rings must be use at each new assembling.
Place the 2 parts' wheel on the tool (with the smaller diameter hole)



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Place conical aluminium tool on the wheel flange spacer.
Spray tyre mounting lubricant on the conical aluminium tool and insert tyre.



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Clean the 2 tyre flanges with thinner



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- Place second part of the special tool, insert the 3 bolts
- Press the tyre till the tyre flange is totally under the level of the horizontal surface of the wheel.
- Clean the horizontal surface of the wheel

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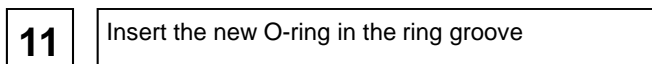
Spray the 2 tyre flanges with Tyre mounting lubricant
Be careful: Tyre has a **red triangle** which must be in front of the valve.





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Clean with air pressure or cloth and check that no dirt is in the ring groove.



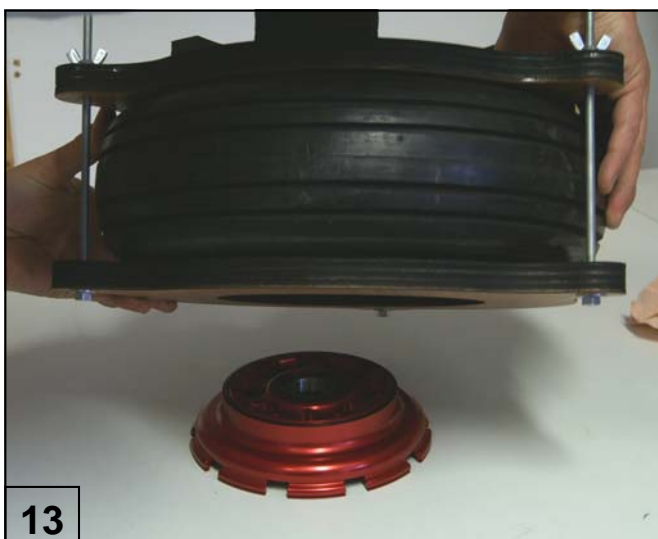
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Insert the new O-ring in the ring groove



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Put Loctite (blue) at the end of each screw



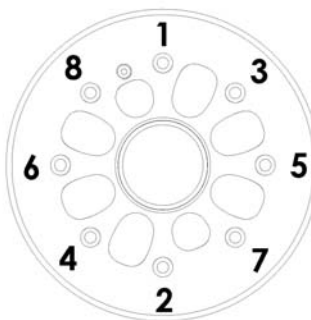
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- Place the whole assembly on the side of the wheel as on the picture above
Be careful that the O-ring is still in ring groove during placement



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Insert the screws and tighten screw to contact (2 to 4 Nm)



Respect the order when torque tightening the 8 x M6 screws



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Torque tighten at 10N.m (+-1Nm) equivalent to 1m.kg (+-0.1m.kg)
Torque tighten at 10N.m a second time each screw.



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- Screw the needle valve with the appropriate tool.
- Inflate the tyre to appropriate pressure.
- 24h later: check that the air leakage is not more than 10%.
- inflate tyre to the appropriate air pressure and screw the cap.