

FITTING OF TUBELESS HANDLING TYRES WITH A BEAD SEAL



DEFINITION

The bead seal is a Michelin innovation which is designed to enable you to fit tubeless tyres as tubeless onto tube type wheels.

It consists of a rubber ring which fits between the tyre beads. It ensures the air tightness of the assembly.

SAFETY



All assemblers must wear protective gloves and safety shoes at all times. They must always follow the safety instructions. The site must be clean, well ventilated and the equipment must be in good working order.

ASSEMBLY



- Clean the inside, the tyre beads and the metal parts.
- Lubricate the inside as well as the interior tyre grooves up to the shoulder zone.
- Lubricate the bead seal (the part which comes into contact with the tyre grooves & the part which comes into contact with the rim).



- Lubricate the needle valve and the selected valve hole by inserting and removing the lubricated valve several times.
- For bead seals with 2 valve holes, lubricate the plug and insert it into the second valve hole.



- Position the bead seal inside the tyre.
- **Make sure that the edges of the bead seal are not folded over.**
- Using chalk, mark the position of the valve hole on the side of the tyre.



- Position the tyre and bead seal onto the wheel.
- Centre the valve hole opposite the valve slot of the wheel.
- Insert the lubricated valve by pushing it right into the valve hole in the bead seal.



- Lock it by turning it 1/4 of a turn (the valve tappets stop when they reach the valve slot of the wheel).
- Raise the tyre to a vertical position.
- Position the base of the press and the threaded rod.

DISASSEMBLY



- Remove the valve cap.
- Unscrew the valve core in order to remove all air from the tyre.



- Once the tyre is completely deflated, remove the valve by turning it by 1/4 of a turn and pull it out using pliers.



- Position the threaded rod and the disc onto the wheel.
- Fit the press by positioning the 3 advanced arms on the loose flange.
- Push the loose flange so that you have enough space to remove the locking ring.

NOTES

When fitting a tyre with a bead seal it is essential to use a special valve, known as a "needle" valve.

Once the tubeless bead seal has been inserted, we recommend that you use a small press in order to make it easier to fit the tyre onto the wheel. The press is only used to lightly depress the beads of the tyre and enable you to fit the locking ring. A small hand-operated press will be sufficient.



Bead seals that are fitted onto tyres where the width is less than 6 inches have a "chimney" into which the valve is placed. All others have two. One of them is centered and the other is off-center. The chimney which is not used is blocked by a plastic plug.



- Put the unit flat on the ground.
- Position all mobile parts of the wheel.
 - Bead seat band (advance band) for the wheels with 4 components
 - Loose flange
 - Locking ring



- Correctly position the bead seat band (wheels with 4 parts).
- Position the 3 arms of the press onto the loose flange.
- Compress the beads until the groove is completely free, whilst making sure that the advance band does not drop down too much to ensure that it does not damage the valve.



- Insert the locking ring into the groove using an assembly lever and a mole wrench.
- Then remove the mole wrench and loosen the press.
- Make sure that all wheel components are correctly positioned.



- Unscrew the press and remove it.
- Inflate to 0.5 bars by tapping the locking ring using a soft headed mallet to ensure it is in place.
- Then inflate to 10 bars whilst complying with the safety instructions.
- Insert the valve core and tighten it.
- Readjust to 10 bars.
- Insert the valve cap which ensures that the unit is airtight.
- Check for any leaks.



- Remove the locking ring from the groove using two suitable assembly levers.
- Unscrew and remove the cross-piece of the press.



- Remove the locking ring, the loose flange and the advance band for the wheels with 4 parts.
- Take off the tyre unit and the bead seal from the wheel.



- Push the bead seal towards the bottom of the tyre.
- Remove it.