

Technical Services Bulletin PLT Tyres

Tyre Mounting Safety Instruction for Continental Passenger Car and Light Truck Tyres

This tyre mounting safety instruction is valid for all tyre brands of Continental AG and is not intended to provide proper training or service procedures for tyre mounting. Please leave these tasks to qualified tyre service professionals.

SAFETY WARNING!

Mounting tyres on rims can be dangerous.

Tyre mounting should only be undertaken by a qualified tyre service professional.

Never perform tyre service procedures without proper training, tools and equipment. Attempting to mount tyres with incorrect, damaged or insufficient tools and/or without applying correct procedures may result in a tyre explosion causing serious personal injury or death.

Always read, understand and follow any manufacturer's warnings contained in owner's manuals, on the equipment, listed on websites and/or molded onto the tyre sidewall.

Never inflate an unsecured tyre. Never stand, lean, or reach over a tyre-rim assembly during inflation. Stay well clear from any tyre that is being inflated in consideration of local conditions.

Ensure suitable personal protective equipment i.e. safety glasses, hearing protection, work shoes.

For your personal safety and the safety of others:

General Aspects:

- Tyres must match the width and diameter requirements of the rims and be approved as a combination for the vehicle model concerned. For example, 17 inch diameter tyres must only be mounted to 17 inch diameter rims, not on 17.5 inch diameter rims. If a tyre is mounted in error on the wrong-sized rim, do not remount it on the proper wheel - scrap it. It may have been damaged internally (which is not visible externally) by having been dangerously stretched and could fail while mounting or in service.
- Only rims of the correct size in good, clean condition and free of rust or corrosion should be used. They must not be damaged, out of shape or worn.
- Tyres must be free of damage and the inside of the tyre must be free from foreign material.
- When fitting new tube-type tyres, always use new tubes. As tubes stretch in service, there is a risk of folds forming in old tubes, so re-used tubes could suddenly tear.

- Tubeless tyres must only be mounted on rims designed for tubeless tyres, i.e. rims that have safety humps or ledges.
- For safety reasons, tubeless tyres should always be fitted with new valves. Please respect maximum allowed pressures for valves according to valve manufacturers specification - usually 450 kpa (4,5 bar) / 65 psi for snap-in rubber valves. Above this pressure, metal valves or high pressure snap-in valves are mandatory.
- If a Tyre Pressure Monitoring System (TPMS) is used, please refer to manufacturers recommendation whether the sensor must be serviced or renewed while tyre exchange.

Tyre Dismounting:

- Before a tyre is taken off the rim, the valve insert must be unscrewed and removed to ensure remaining pressure is released completely.

Tyre Mounting:

- Always coat the tyre beads and the rim with a permitted tyre fitting lubricant before mounting. Silicone, petroleum or solvent-based lubricants must not be used for this purpose.
- While the tyre is being inflated, the rim must remain firmly secured on the mounting machine. If the tyre is mounted on a machine that does not have a positive lock-down device to hold the rim, inflation should be done in a safety cage or other restraining device.
- Never put flammable substances in tyre/rim assemblies at any time. Never put any flammable substance into a tyre/rim assembly and attempt to ignite to seat the beads. This practice is extremely unsafe and may also cause undetected damage to the tyre or rim that could result in failure of the tyre in service.
- When fitting tubeless car tyres, care should be taken to ensure that the tyre beads coming from the well-base first clear the hump in the rim shoulder. To avoid cracks in the bead core, the "pop" pressure necessary should not exceed 330 kpa (3,3 bar / 48 psi). If the tyre does not pop into place even at this pressure, the pressure must be released and the cause identified and eliminated. Then the procedure can be repeated.
- Only when the tyre beads are seated correctly on the rim shoulder may the pressure be increased to support best bead seating and optimized fit on the rim flanges. However, this "seating pressure" should never exceed 400 kpa (4.0 bar) / 58 psi.
- For some countries, different maximum mounting pressure values have been established by the respective local standardisation organisations. Please refer to the table below which shows examples for some countries in order to respect local standards (status as of July 2018, no guarantee for completeness, actuality and correctness).

Country	Maximum Mounting Pressure	Standard
Germany	Pop Pressure: 330 kpa (3,3 bar) / 48 psi Seating Pressure: 400 kpa (4,0 bar) / 58 psi	WDK
USA/CAN	275 kpa (2,75 bar) / 40 psi	RMA/USTMA
Brazil	275 kpa (2,75 bar) / 40 psi	ALAPA
Japan	300 kpa (3,0 bar) / 44 psi	JATMA

- Once the tyre is mounted correctly, adjust the pressure to the operating pressure specified by the vehicle manufacturer.

Run Flat Tyres (SSR):

- Due to the special technology involved, it is recommended that SSR run flat tyres are mounted and removed by specifically trained workshops. Detailed mounting instructions/videos for SSR run flat Tyres are available under www.conti-ssr.com.

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