

Tubeless Versus Tube-Type Tyres

The original design of a truck tyre required the use of a separate tube made of a different type of rubber designed to keep the air in the tyre and thus maintain the tyre pressure. Development of more sophisticated tyres led to the tubeless tyre which integrated the tube within the tyre construction process and eliminated the need for a separate tube. This technology advance simplified the fitting in both required components and effort required to fit the tyre to a wheel.

Tubeless Advantages:

- Ease of mounting
- Improved balance of tyre/wheel
- Better stability (lower aspect ratio)
- Reduction of run flats
- Improved brake drum ventilation leading to cooler brakes
- Fewer parts to inventory
- Safer - no risk of mis-matching multi-piece wheel parts
- Reduced cost of labor and maintenance
- Reduction of vehicle downtime
- Reduction of wheel and tyre weight

