

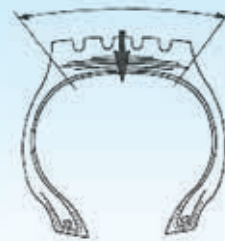


**AREA:**

**TREAD & CARCASS**

**CONDITION:**

This damage refers to a bursting of carcass including breakers or belts due to external shock or cut.



**CAUSES:**

- Sudden sharp deformation of the tyre e.g. when driving over an edged object at high speed (as per diagram above). This is accentuated by excessively high tyre pressure or overloading.
- Parking on top of an object. The deformed part of the tyre takes time to relax back to the original profile which can lead to a fracture.
- Heavy curbing and sidewall deformation. Frequent bumping into and scraping along curbstones. Under certain circumstances this may cause steel cords to break resulting in similar fractures.
- Stone trapping between tyres causes a localised deformation resulting in similar fractures
- The effect of sharp-edged foreign object penetrating the shoulder/sidewall in a localised area causing the casing to rupture.

These are the most common causes of rupture (impact, as described). This list is not exhaustive but clearly shows that position of tyres is irrelevant to the cause of failure.

**RECOMMENDATIONS:**

- Drive carefully to avoid obstacles. If the obstacles cannot be avoided, reduce a speed, especially on rough roads and terrains or on wet surfaces.
- Use tyres at recommended pressure and do not exceed maximum load (Load Index).

**HOW TO CHECK:**

Inspect both outside and inside of the damaged portion. Inspect the hit part of tread (becoming hollow).

