



LVV wheel and tyre requirements

Tyre Size to Rim Size Compatibility Guide Information Sheet

The most visited page of LVVTA's website is the LVVTA Tyre Size to Rim Size Compatibility Guide Information Sheet, and with good reason. The purpose of the Information Sheet is to provide a comprehensive source of data regarding tyre and rim size compatibility. Although originally created specifically for LVV Certifiers, it has become the go-to guide for tyre shops, WoF inspectors, Police and members of the public alike.

Whenever a vehicle is presented for WoF inspection that appears to have overly narrow or wide tyres fitted, LVVTA recommends WoF inspectors refer to the chart as confirmation that the fitment is suitable. The simple way to find it is to Google 'LVVTA Tyre Guide' or find Infosheet 01-2009 Tyre Size to Rim Size Compatibility Guide from the 'Documents' tab of www.lvvtta.org.nz.

When a vehicle is presented for a WoF which has a tyre to rim fitment that is outside of the sizes listed within the Information Sheet, the guidelines of the tyre manufacturer in question must be followed. This means that if a vehicle owner is able to present valid documentation from the tyre manufacturer (not a retailer) confirming that the manufacturer accepts the tyre-to-rim fitment, this can be accepted.

Tyres to be contained within bodywork

Although most WoF inspectors are aware of the requirement for vehicles fitted with wheel spacers or adapters to undergo LVV Certification, LVV Certifiers are often presented with vehicles which have wheel and tyre fitments that cannot pass certification because they extend past the body line of the vehicle. The wording of the LVVTA's Wheels & Tyres Standard states "A tyre fitted to a low volume vehicle must be contained within the confines of the bodywork, and no part of the tread section may protrude beyond the outer edge of the body, mudguard, or mudguard flare or extension."

The VIRM contains similar wording regarding tyre protrusion where it states "LVV Certification is not required provided that the tyre tread:

- does not protrude beyond the unmodified original body panels (including unmodified factory-fitted mudguard extensions), or



For both WoF and LVV Certification no part of the tyre tread should extend beyond the OE bodywork or aftermarket flares/mudguard extensions. Tyres must also be suitable for the wheel size.

- protrudes beyond the unmodified original body panels, but is covered by aftermarket or modified mudguard extensions or modified body panels, and the track width has increased by no more than 25mm from OE."

Track width and circumference

The track width measurement is taken from the centreline of both front wheels or both rear wheels. Vehicles fitted with wider than OE wheels, or vehicles fitted with a lower (wider) offset may be affected by this requirement. If a vehicle which does not meet the above requirements is presented for a WoF, it should be referred for LVV certification.

In a similar manner, vehicles fitted with a wheel and tyre combination which provides an outer circumference that is more than five percent greater than OE, are also required to undergo LVV certification. Again, this is most commonly applicable to four-wheel drive vehicles, which, when fitted with larger diameter tyres often fail to pass brake performance tests due to the increased rotational mass and leverage of the larger tyres.