

Correct as at 24th May 2019. It may be superseded at any time.

Extract taken from: NZTA Vehicle Portal > VIRMs > Light vehicle repair certification > Vehicle measurement

## 8 Vehicle measurement

### 8-1 Three-dimensional chassis measurement

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#### Reasons for rejection

1. A three-dimensional chassis measurement has not been completed when:
  - a) more than one panel requires repairs and/or replacement, or
  - b) a chassis rail has been damaged or displaced, or
  - c) where there is corrosion damage and the vehicle structure has deformed or collapsed.
2. A trammel bar measurement (or three-dimensional chassis measurement) has not been completed when:
  - a) only one panel requires repairs and/or replacement, or
  - b) there is no damage or displacement of a chassis rail or structural body section.
3. A trammel bar measurement has been completed and a four-wheel alignment has not been completed.
4. When a trammel bar has been used, the four-wheel alignment measurements cannot be brought within the manufacturers specifications.
5. The actual measurements have not been recorded.
6. Where no measurement tolerances are available, the chassis measurement exceeds a measurement tolerance of +/- 3mm for a unibody or +/- 5mm for a body-over-frame vehicle.
7. The measurements of the vehicle are not within the vehicle manufacturers or measurement sheets specified measurement tolerances ([Note 2](#)).
8. An incorrect measurement sheet for the vehicle has been used (eg make, model, mechanical components in or out).
9. The vehicle has not been measured by the repair inspector or by a technician recognised as competent by the repair certifier.
10. The measurements have not been signed off by the repair inspector or by a technician recognised as competent by the repair certifier.
11. The measurement system used is not currently calibrated.
12. Inadequate measurements have been taken to determine whether the vehicle is within specification.

#### Note 1

It is recommended that vehicles manufactured after 1 January 2004 be measured using an electronic measuring system.

#### Note 2

No chassis measurement is required when the only repairs are for corrosion damage and the damaged area or components shows no sign of deformation or collapse of the structure.

#### Note 3

The vehicle does not have to be returned to within the original specifications if it can be shown that there are no adverse effects to the structure, components or equipment. This must be noted on the [LT308](#) with an explanation. However, there is no requirement for the TSD agent to accept these comments and they do not have to accept the [LT308](#).

#### Note 4

The measurement sheet must be retained by the repair certifier with the vehicle file.

## Summary of legislation

### Applicable legislation

- [Land Transport Rule: Vehicle Repair 1998](#).

## 8-2 Four-wheel alignment measurement

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### Reasons for rejection

1. A four-wheel alignment has not been completed when:
  - a) corrosion has affected a steering or suspension attachment, or
  - b) other damage has affected steering or suspension.
2. The measurements of the vehicle are not within the specified tolerance.
3. The measurements have not been taken by a technician approved by the repair certifier.
4. The four-wheel alignment machine is not currently calibrated.

#### Note 1

A copy of the wheel alignment report must be retained by the repair certifier with the vehicle file.

## Summary of legislation

### Applicable legislation

- [Land Transport Rule: Vehicle Repair 1998](#).