

Correct as at 14th June 2026. It may be superseded at any time.

Extract taken from: Light vehicle repair certification > Motorcycles > Measurements

10-2 Measurements

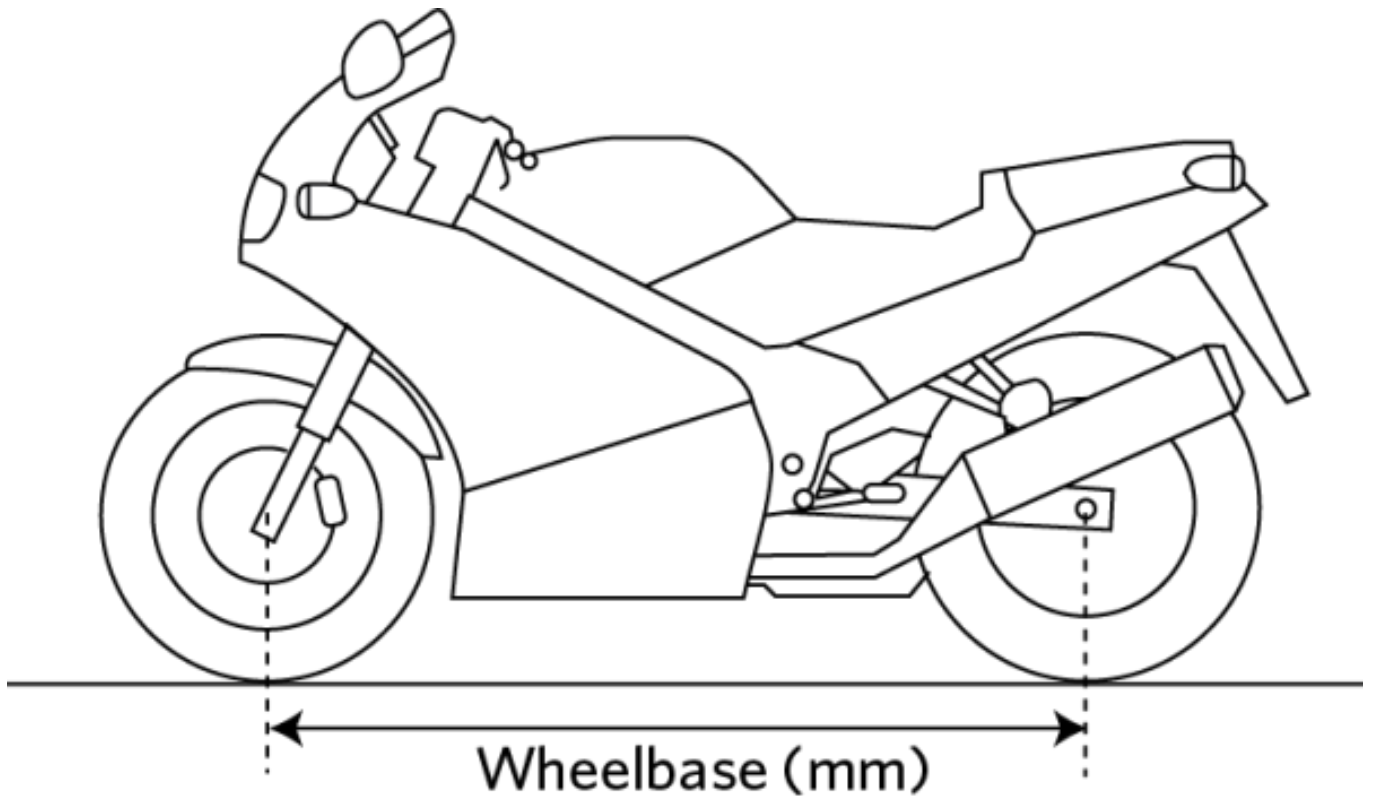
Reasons for rejection

1. A fork has runout in excess of 0.4mm (unless permitted by the manufacturer).
2. One of the following measurements is not within the manufacturer's specifications:
 - a) wheelbase (Figure 10-2-1)
 - b) steering head angle (Figure 10-2-2)
 - c) front wheel castor angle (Figure 10-2-3)
 - d) wheel track offset (Figure 10-2-4).
3. The wheel alignment has not been measured.
4. The wheel alignment is not within specification.
5. A reference measurement of the frame has not been completed and recorded (Note 1).
6. A reference measurement of the frame shows a difference of more than 3mm (unless permitted by the manufacturer's instructions).

Note 1

A reference measurement of the frame is a comparative measurement of each side of the frame to verify symmetry.

Figure 10-2-1. Wheelbase measurement



Wheelbase is measured between the centre of the contact patches of the front and rear wheels.

Figure 10-2-2. Steering head angle measurement

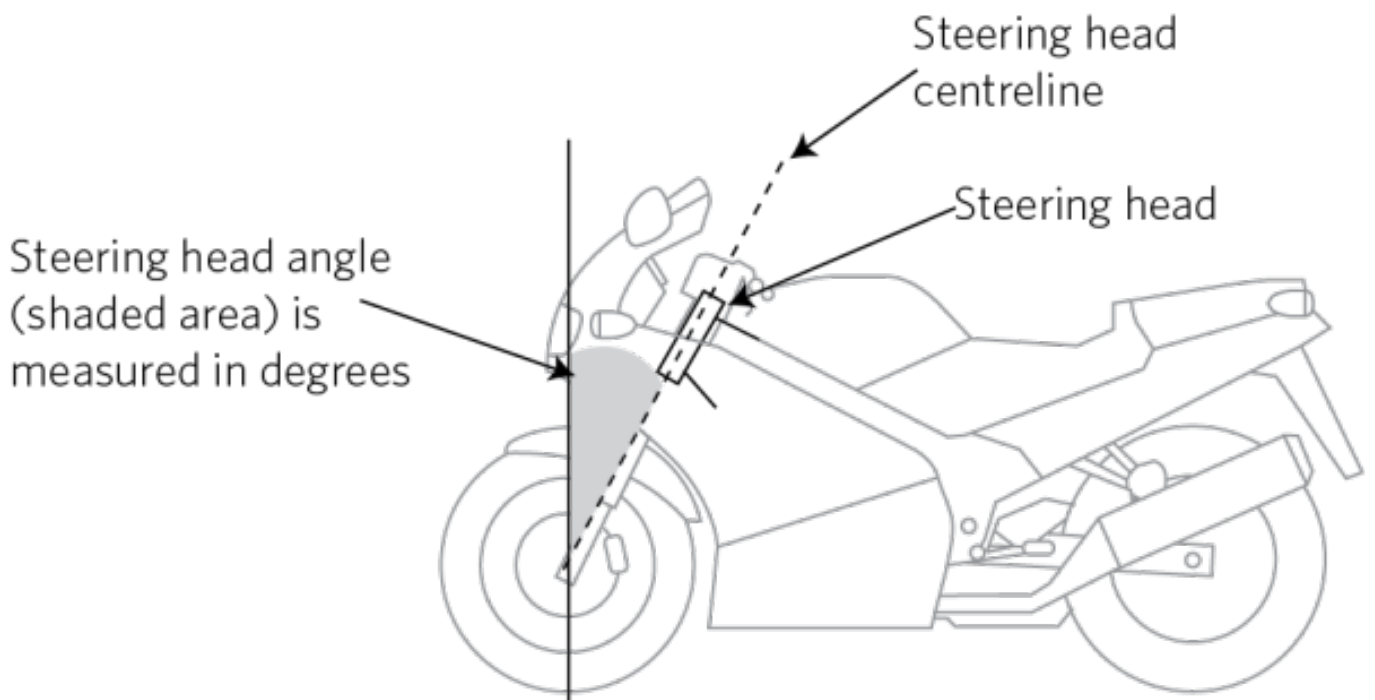


Figure 10-2-3. Front wheel castor angle measurement

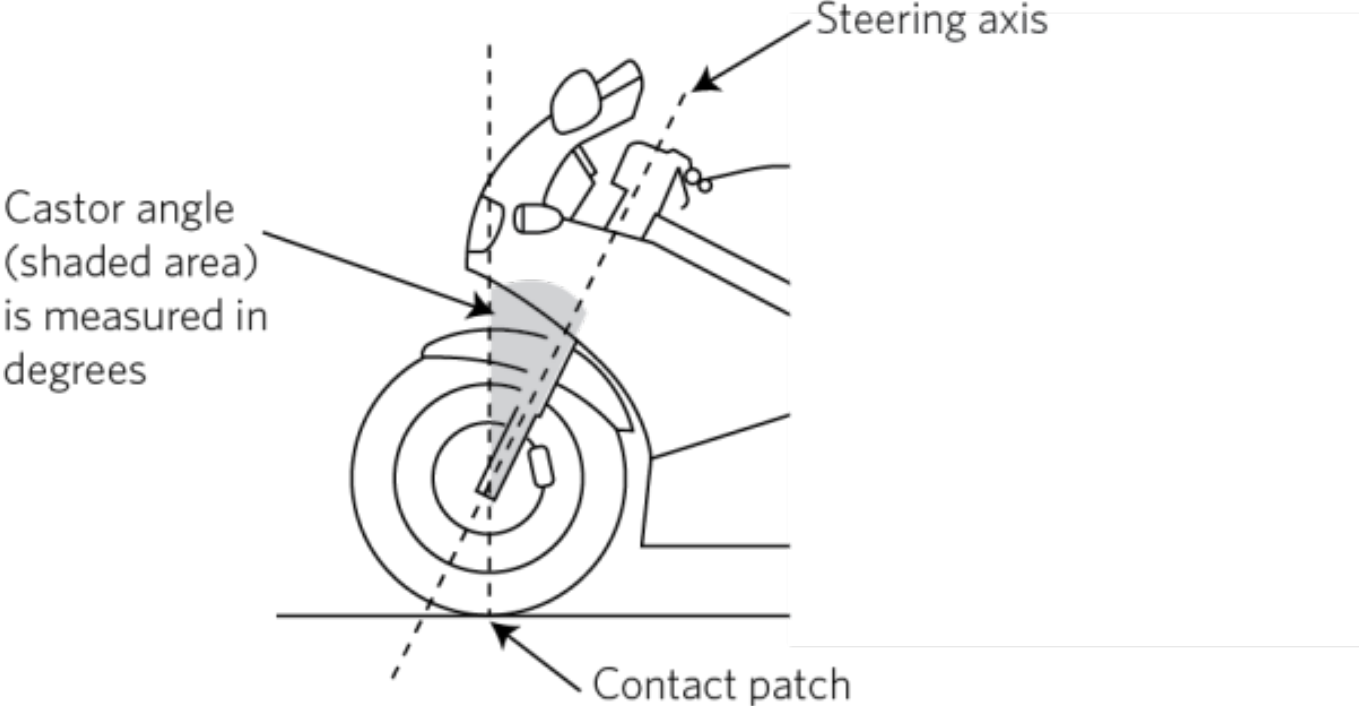
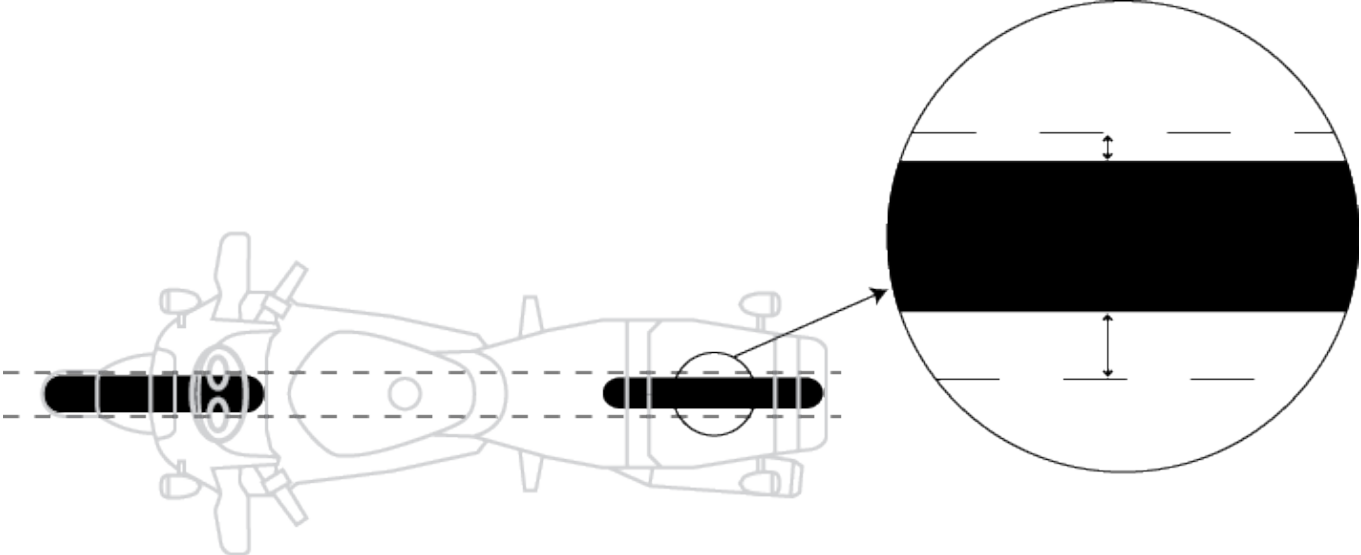


Figure 10-2-4. Wheel track offset measurement



Summary of legislation

Applicable legislation

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

Condition

1. A repair to a vehicle, its structure, systems, components or equipment must restore the damaged or worn vehicle, structure, system, component or equipment so that it is within safe tolerance of the state of the vehicle, structure, system, component or equipment when manufactured.