

Title	Diagnose suspension and manual steering faults on light vehicles		
Level	3	Credits	2

Purpose	People credited with this unit standard are able to diagnose suspension and manual steering faults on light vehicles.
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Classification	Motor Industry > Vehicle Steering and Suspension
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Available grade	Achieved
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Prerequisites	Class 1 driver licence.
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Guidance Information

- 1 It is recommended that people hold credit for Unit 30566, *Demonstrate knowledge of steering and suspension systems*; and Unit 24026, *Demonstrate knowledge of, and the procedures for carrying out, vehicle wheel alignment* before being assessed against this unit standard.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 3 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Land Transport Rule: Steering Systems 2001;
Land Transport Rule: Vehicle Repair 1998;
Land Transport Rule: Vehicle Standards Compliance 2002;
The Official New Zealand Road Code.
- 4 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 5 Definitions
Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.
Light vehicle refers to classes MA, MB, MC, MD, MD1, MD2 and NA as specified in the Vehicle equipment standards classifications at <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/>.

Service information refers to information such as technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations. *Suitable tools and equipment* refer to industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

- 6 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Diagnose suspension and manual steering faults on light vehicles.

Performance criteria

- 1.1 Details of the fault are obtained from the customer and noted.
- 1.2 A visual check is carried out on components, and any defects are noted.
- 1.3 The vehicle is test driven, and the symptoms of any suspension and steering fault(s) and the conditions when they occur are determined and noted.
- Range may include – abnormal tyre wear, wallow, harshness, vibration, ride height, oversteer, understeer, shimmy, wander, tramp, heavy steering, noise.
- 1.4 The fault symptoms and the conditions when they occur are analysed, and a likely cause is determined.
- 1.5 The actual cause of the fault is investigated and identified.
- Range may include – worn parts, damaged parts, lack of lubrication, parts out of adjustment, incorrect parts fitted.

Replacement information	This unit standard and unit standard 24564 replaced unit standard 896 and unit standard 15657.
Planned review date	31 December 2025

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 2007	31 December 2022
Review	2	29 July 2021	N/A

Consent and Moderation Requirements (CMR) reference

0014

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.