

<b>Title</b>	<b>Demonstrate knowledge of diagnosing and rectifying vehicle power-assisted steering system faults</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of: a power-assisted steering system; pressure and flow testing a power-assisted steering system; and rectifying faults in a power-assisted steering system.
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<b>Classification</b>	Motor Industry > Vehicle Steering and Suspension
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 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.
- 2 Performance of the outcomes of this unit standard must comply with the following:  
Health and Safety at Work Act 2015;  
Resource Management Act 1991, s15 Discharge of contaminants into environment;  
Land Transport Rule: Steering Systems 2001;  
Land Transport Rule: Vehicle Repair 1998.
- 3 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.
- 4 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.  
*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.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of a power-assisted steering system.

#### Performance criteria

1.1 Components that make up the power-assisted steering system are identified.

Range oil, reservoir, pump, steering rack, steering box, hoses.

1.2 Components that make up the steering pump are identified.

### Outcome 2

Demonstrate knowledge of pressure and flow testing a power-assisted steering system.

#### Performance criteria

2.1 Procedures for preparing the vehicle for testing the power-assisted steering system are described.

2.2 Procedures for testing the steering pump pressure and flow are described.

2.3 Procedures for analysing test results and comparing them with manufacturer specifications are described.

### Outcome 3

Demonstrate knowledge of rectifying faults in a power-assisted steering system.

#### Performance criteria

3.1 Procedures for identifying faulty power-assisted steering components and replacing them are described.

Range oil, reservoir, pump overhaul, steering rack and/or steering box, parts inspection.

3.2 Priming and bleeding the power-assisted steering system is described.

Range topping up with the specified hydraulic oil, testing.

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<b>Replacement information</b>	This unit standard, unit standard 24427, and unit standard 24428 replaced unit standard 901.
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<b>Planned review date</b>	31 December 2025
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**Status information and last date for assessment for superseded versions**

<b>Process</b>	<b>Version</b>	<b>Date</b>	<b>Last Date for Assessment</b>
Registration	1	25 January 2008	31 December 2022
Review	2	29 July 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
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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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.