

Title	Prepare and overhaul a final drive assembly from a light vehicle		
Level	4	Credits	6

Purpose	<p>This unit standard is intended for people in the automotive repair industry.</p> <p>People credited with this unit standard are able to: prepare to overhaul a final drive assembly from a light vehicle; and overhaul a final drive assembly from a light vehicle.</p>
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Classification	Motor Industry > Automotive Transmission Systems
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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 24315, *Diagnose faults in final drive assemblies on light vehicles* 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: Vehicle Repair 1998;
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 Range

This unit standard includes – either a non-limited slip differential assembly or a limited slip differential assembly.

Outcomes and performance criteria

Outcome 1

Prepare to overhaul a final drive assembly from a light vehicle.

Performance criteria

- 1.1 Crownwheel and pinion backlash, and the preload of the pinion and differential bearings are measured and noted, and tooth markings are taken to determine pinion depth of mesh, in accordance with service information.

Outcome 2

Overhaul a final drive assembly from a light vehicle.

Performance criteria

- 2.1 The final drive assembly is disassembled in the sequence and manner prescribed by the manufacturer, and any signs that could indicate the causes of any faults are noted.
- 2.2 The component parts are examined, and signs of wear and damage identified and noted.
- 2.3 The information gained by inspecting the final drive assembly is analysed to determine the causes of any faults, and a recommendation is made to eliminate the problem.
- 2.4 Parts not suitable for further service are replaced with serviceable parts that meet manufacturer specifications.
- 2.5 The final drive unit is assembled.
- 2.6 The pinion depth, mesh, backlash, and bearing preloads are adjusted and checked to ensure that they comply with manufacturer specifications.
- 2.7 The final drive assembly is filled with oil to the specification and level prescribed by the manufacturer.

- 2.8 The vehicle is tested to verify that the final drive operates in accordance with manufacturer specifications.

Replacement information	This unit standard and unit standard 24315 replaced unit standard 957.
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Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 February 2008	31 December 2022
Review	2	27 May 2021	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.