

Title	Remove and replace an automatic transmission from and in a light vehicle		
Level	3	Credits	2

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 remove an automatic transmission from, and replace an automatic transmission in, 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

- 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.
- Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
The Official New Zealand Road Code.
- 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.
- 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.

- 5 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

Remove an automatic transmission from a light vehicle.

Performance criteria

- 1.1 The transmission is drained of fluid, taking care to avoid personal injury from scalding.
- 1.2 The vehicle battery is disconnected to prevent electrical damage occurring during the removal and replacement of the transmission.
- 1.3 The vehicle is supported in a safe manner to allow access to transmission attachments.
- 1.4 The transmission is disconnected and removed from the vehicle.

Outcome 2

Replace an automatic transmission in a light vehicle.

Performance criteria

- 2.1 The transmission is installed in, and connected to, the vehicle.
- 2.2 Transmission oil cooler is flushed and checked for oil flow or replaced.
- 2.3 The transmission is filled with fluid of the type, and to the level, specified by the vehicle manufacturer.
- 2.4 Adjustments are carried out in the sequence and manner prescribed by the vehicle manufacturer, and to vehicle manufacturer specifications.

Range may include but is not limited to – selector linkage, downshift cable or switch, inhibitor switch, throttle position sensor; electronic control – live data collection, scanner tool or computer link-up adjustments.

- 2.5 The vehicle is road tested to ensure the transmission operation complies with vehicle manufacturer specifications.

Range selector lever operation, shift pattern, shift quality, transmission noise, leaks;
light throttle checks, full throttle checks, kickdown.

Replacement information	This unit standard and unit standard 24314, replaced unit standard 958, unit standard 15421, and unit standard 15422.
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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.