



Australian Government

AURLTX102 Diagnose and repair light vehicle automatic transmissions

Release: 1

AURLTX102 Diagnose and repair light vehicle automatic transmissions

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to diagnose and repair faults in the automatic transmissions of light vehicles. The unit involves preparing for the task, sourcing a diagnostic testing strategy, diagnosing the cause of the fault, carrying out the repair, performing post-repair testing, and completing workplace processes and documentation.

The unit applies to those working in the automotive service and repair industry. The automatic transmissions include those in light vehicles or light commercial vehicles. This unit does not apply to agricultural machinery, heavy commercial vehicles, marine vessels, mobile plant machinery or motorcycles.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Unit Sector

Mechanical - Light Vehicle Technical - Transmission

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to diagnose and repair light vehicle automatic transmission	1.1 Determine job requirements from workplace instructions 1.2 Source and interpret diagnostic information 1.3 Analyse diagnostic options and source testing strategy, selecting those required for the circumstances 1.4 Identify hazards associated with the work and manage risks 1.5 Select and check diagnostic tools and equipment required for testing strategy for serviceability
2. Diagnose automatic	2.1 Perform diagnostic tests set out in testing strategy

ELEMENTS	PERFORMANCE CRITERIA
transmission	according to workplace procedures and safety requirements 2.2 Identify faults from diagnostic test results and determine causes of faults 2.3 Confirm and report cause of fault according to workplace procedures 2.4 Develop and report recommendations for required repairs according to workplace procedures
3. Repair automatic transmission	3.1 Source and interpret repair information 3.2 Analyse repair options and select those required for the circumstances 3.3 Select and check repair tools, equipment and materials 3.4 Carry out repairs and component replacements and adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or system 3.5 Carry out post-repair testing according to workplace procedures to confirm fault rectification, and rectify any further problems detected as having been introduced during the repair process
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Complete documentation according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	- Locates required sources of information efficiently - Develops a sequenced plan for a specific task.
Numeracy	- Measures automatic transmission components and uses mathematical operations - Calculates deviations and tolerances from manufacturer specifications - Calculates gear ratios and torque reduction and multiplication.

SKILL	DESCRIPTION
Oral communication	• Clarifies instructions • Obtains information from customers and supervisors.
Reading	• Interprets information from manufacturer and workshop literature when seeking automatic transmission specifications and procedures • Interprets automatic transmission hydraulic and electrical circuit diagrams.
Planning and organising	• Plans own work requirements • Prioritises actions to achieve required outcomes • Ensures tasks are completed within workplace timeframes.
Technology	• Uses precision measuring equipment.

Unit Mapping Information

Supersedes and is equivalent to AURLTX002 Diagnose and repair light vehicle automatic transmissions.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>