



Australian Government

AURLTD008 Replace and refit steering, suspension and braking system components

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with the Automotive Retail, Service and Repair Training Package Version 7.0. Newly created unit.

Application

This unit describes the skills and knowledge required to replace steering, suspension and braking system components that have been removed, and refit components into a vehicle. This involves preparing for the work, replacing the component, refitting the component and completing workplace processes and documentation.

It applies to those who undertake routine servicing tasks in the automotive retail, service and repair industry.

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

Unit Sector

Technical - Steering and Suspension

Elements and Performance Criteria

ELEMENT	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 replace and refit steering, suspension or braking system component	1.1 Determine job requirements according to workplace instructions 1.2 Access and interpret original equipment manufacturer (OEM) specifications and workplace procedures 1.3 Identify hazards and environmental issues associated with work tasks, assess potential risks and implement control measures according to workplace policies and procedures 1.4 Identify components requiring servicing, and select tools and equipment according to job requirements

	1.5 Check tools and equipment for serviceability
2. Inspect and replace system component	2.1 Inspect faulty components and determine solutions to restore component functionality 2.2 Select solution and prepare tools and equipment to restore component functionality 2.3 Replace component according to manufacturer specifications, workplace procedures and safety requirements
3. Refit and test system component	3.1 Prepare replaced system component, tools and equipment for vehicle refitting 3.2 Refit system component according to workplace procedures, manufacturer specifications and safety requirements, without causing damage to vehicle 3.3 Conduct post-refit testing of system functionality and rectify faults where required according to OEM procedures 3.4 Conduct final inspection and confirm vehicle is ready for use according to road safety standards and safety requirements
4. Complete work processes	4.1 Clean work area, collect recyclable material and dispose of waste and non-recyclable materials 4.2 Store tools and equipment according to workplace procedures 4.3 Document vehicle safety inspection and system component installation process 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
Reading	interprets component specifications, work sheets, electrical diagrams, programming, and code to install system components
Writing	legibly and accurately fills out workplace documentation for records and reports
Numeracy	measures system components and use basic mathematical operations
Planning and	plans own work requirements and prioritises actions to achieve required

organising	outcomes and ensure tasks are completed within workplace timeframes
Technical	• uses specialised tools and equipment

Unit Mapping Information

Newly created unit.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURLTD008 Replace and refit steering, suspension and braking system components

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- replace at least one component in vehicle from each of the following systems:
 - steering
 - suspension
 - braking
- refit at least one replaced steering, suspension and braking system component in vehicle.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key work health and safety (WHS) requirements relating to replacing and refitting steering, suspension and braking system components, including those relating to:
 - working with stored energy in springs, air springs and torsion bars
 - working with brake dust and hydraulic fluids
 - identifying hazards and controlling risks
- key environmental requirements relating to replacing and refitting steering, suspension and braking system components, including:
 - trapping, storing and disposing of oils and fluids
 - safely disposing of contaminated parts and components
 - checking components for serviceability
- key basic functions of system components, including:
 - steering
 - suspension
 - braking

- key workplace policies and procedures for replacing and refitting steering, suspension and braking system components, including:
 - component tagging, including key information required on tags
 - component inspection
 - restoring component functionality
 - component, tool and equipment storage
 - component refitting
- quality standards and specifications for replacing and refitting steering, suspension and braking system components, including:
 - manufacturer specifications
 - road safety standards
 - requirements of Vehicle Standards and modifications
 - The Australian Design Rules (ADRs).

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the steering, suspension and braking system components that they have removed and tagged, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- task instructions
- manufacturer steering, suspension and braking component specifications
- vehicle with the components specified in the performance evidence requiring replacement and refitting
- tools, equipment and materials for replacing and refitting steering, suspension and braking system components
- PPE required to replace and refit steering, suspension and braking system components

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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