



Australian Government

AURTTJ002 Remove, inspect and refit wheel hubs and associated brake components

Release: 1

AURTTJ002 Remove, inspect and refit wheel hubs and associated brake components

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to remove and refit wheel hubs and associated brake components during the rectification of faults in steering and suspension systems. It involves identifying and confirming work requirements, preparing for the work, removing and refitting the wheel hubs and associated brake components, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The hubs and associated brake components include those of light vehicles, four wheel drive vehicles or light commercial vehicles. This unit does not involve servicing or repairing braking systems.

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

Competency Field

Mechanical Miscellaneous

Unit Sector

Technical – Wheels and Tyres

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to remove and refit wheel hubs and	1.1 Job requirements are determined from workplace instructions 1.2 Removal, refitting and adjustment information is sourced and

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associated brake components	interpreted 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Remove and inspect wheel hubs and associated brake components	2.1 Components are identified and removed according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems 2.2 Components are inspected according to manufacturer specifications and workplace procedures 2.3 recommendations for necessary repairs, replacements or adjustments
3. Refit and adjust wheel hubs and associated brake components	3.1 Refitting options are analysed and those most appropriate to the circumstances are selected 3.2 Wheel hubs and associated brake components are fitted and adjusted according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems 3.3 Wheel hub adjustment and wheel nuts are tightened according to manufacturer specifications and workplace procedures 3.4 Components are checked for correct assembly and operation according to manufacturer specifications and workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vehicle is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 4.4 Workplace documentation is processed according to workplace procedures

Foundation Skills

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

Skills	Description
Learning skills to:	locate appropriate sources of information efficiently.
Reading skills to:	interpret information from manufacturer specifications and workshop literature when seeking removal, refitting and adjustment procedures and specifications.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting inspection findings, making recommendations, and recording parts and material used.
Numeracy skills to:	- interpret precision measuring tool scales - understand numerical divisions in metric and imperial units of measurement for tensioning fasteners.
Technology skills to:	- use precision measuring equipment - operate fastener tensioning tools.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - lifting and supporting vehicles and wheel hubs - handling and controlling brake dust and brake fluids - environmental requirements, including procedures for trapping, storing and disposing of brake dust and brake fluid.
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Unit Mapping Information

Equivalent to AURTTJ2002 Remove and refit wheel hubs and associated brake components

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURTTJ002 Remove, inspect and refit wheel hubs and associated brake components

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- remove, inspect, refit and adjust:
 - one disc brake hub and associated brake components
 - one drum brake hub and associated brake components.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to removing and refitting wheel hubs and associated brake components, including procedures for:
 - lifting and supporting vehicles and wheel hubs
 - handling and controlling brake dust and brake fluids
- environmental requirements, including procedures for trapping, storing and disposing of brake dust and brake fluid
- application, purpose and function of wheel hubs and associated brake components, including:
 - discs, pads and brake calipers
 - drums, brake linings, wheel cylinders and hydraulic components
 - park braking devices
 - wheel bearing types
- basic operation of braking systems, including:
 - hydraulic braking systems
 - mechanical braking systems

- types and applications of brake hydraulic fluids and wheel bearing greases
- procedures for removing, inspecting, refitting and adjusting wheel hubs and associated brake components, including:
 - brake bleeding
 - brake and park brake adjustment
 - wheel bearing lubrication and adjustment
- post-fitting procedures and checks of wheel hubs and associated brake components.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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 vehicle wheel hubs and brake components that they have worked on, 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:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer wheel hubs and associated brake component specifications
- two different vehicles for removing and refitting the wheel hubs and associated brake components specified in the performance evidence
- tools, equipment and materials appropriate for removing, inspecting and refitting wheel hubs and associated brake components.

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