



Australian Government

AURTTB015 Assemble and fit braking system components

Release: 1

AURTTB015 Assemble and fit braking system components

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the skills and knowledge required to assemble and fit braking system components to vehicles. It involves preparing for the task, assembling and fitting brake components, post-fitting testing, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The braking systems include those of vehicles in all sectors of the industry.

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

Unit Sector

Technical - Brakes

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare to assemble and fit braking system components	1.1 Identify job requirements from workplace instructions 1.2 Obtain and interpret procedures and information for assembling and fitting braking system components to identify options required for the job 1.3 Identify hazards and environmental issues, assess potential risks and implement control measures in line with workplace policies 1.4 Identify tools and equipment required for the job and examine for serviceability
2. Assemble and fit components	2.1 Inspect components for suitability and report faults according to workplace procedures 2.2 Assemble components according to manufacturer specifications, workplace procedures, workplace health and safety and environmental requirements

	2.3 Fit components according to manufacturer specifications, workplace procedures, and workplace health and safety requirements
3. Test components	3.1 Obtain and interpret testing procedures from manufacturer specifications 3.2 Test braking system according to manufacturer specifications and adjust as required 3.3 Tag failed components for further work 3.4 Record test results according to workplace procedures
4. Complete work processes	4.1 Carry out final inspection to ensure work is to workplace expectations and vehicle is ready for use according to workplace procedures 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 Examine and store tools and equipment according to workplace procedures 4.4 Complete workplace documentation 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 relevant sources of braking system information efficiently
Reading skills to:	- read and interpret information and ideas from workplace procedures and documentation on safe operating procedures for assembling, fitting and testing braking system equipment - read and interpret information from manufacturer specifications
Writing skills to:	legibly and accurately fill out workplace documentation when reporting findings, making repair recommendations, and recording parts and material used
Oral communication skills to:	- clarify instructions - report faulty components - make fitting recommendations
Numeracy skills to:	- measure braking system and vehicle components - use basic mathematical operations, including addition and subtraction - calculate distances and tolerances

Planning and organising skills to:	• plan own work requirements • prioritise actions to achieve required outcomes • ensure tasks are completed within workplace timeframes
Technology skills to:	• use braking system measuring equipment including vernier calipers, micrometers and brake drum calipers

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AURTTB015 Assemble and fit braking system components (Release 1)	AURTTB005 Assemble and fit braking system components (Release 1)	Wording changes to ensure compliance with Standards for Training Packages. Removal of references to OHS requirements. Removal of range of conditions. Addition of assessor requirements.	Equivalent

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 AURTTB015 Assemble and fit braking system components

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Performance Evidence

The candidate must demonstrate they can perform the following according to the standards defined in the elements, performance criteria and foundation skills of this unit.

The candidate must demonstrate assembling and fitting three different components from one of the following braking systems:

- hydraulic
- pneumatic over hydraulic
- vacuum over hydraulic
- electric
- electric over hydraulic
- pneumatic
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Knowledge Evidence

The candidate must demonstrate the following knowledge:

Key policies and procedures for assembling and fitting braking system components including:

- how to locate and interpret manufacturer specifications or equivalent documentation and workplace procedures for assembling and fitting braking system components
- the following workplace health and safety requirements relating to assembling and fitting brake system components:
 - procedures for lifting and supporting vehicles
 - procedures for handling and controlling brake dust and brake fluids
- the following technical braking systems information including:
 - procedures and techniques for assembling braking system components
 - procedures and techniques for fitting and testing braking system components
- environmental procedures for trapping, storing and disposing of brake dust and brake fluid released during assembly and fitting process
- workplace housekeeping and documentation procedures

Technical braking systems information including:

- the operation of the following braking systems and their components:
 - hydraulic
 - pneumatic over hydraulic
 - vacuum over hydraulic
 - electric
 - electric over hydraulic
 - pneumatic
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Assessment Conditions

The assessment must:

- include access to:
 - an automotive repair workplace or simulated workplace that reflects workplace conditions - where simulation is used, it must reflect real working conditions by modelling industry operating conditions and contingencies, as well as, using suitable facilities, equipment and resources
 - workplace instructions relating to the assembly and fit of braking system component
 - workplace procedures relating to assembly and fit of braking system components
 - manufacturer specifications or equivalent information relating to the assembly and fit of braking system components
 - components of the braking systems specified in the performance evidence
 - vehicles requiring the fitting and assembly of the braking systems specified in the performance evidence
 - equipment, hand and power tooling appropriate for assembling, fitting and testing braking systems and associated components
- be demonstrated in the workplace or in a simulated environment that reflects workplace conditions
- be conducted in a safe environment
- be assessed in compliance with relevant policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed
- confirm consistent performance can be applied in a range of relevant workplace circumstances

Assessor Requirements

Assessors of this unit must:

- satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards
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