



Australian Government

AURTTF007 Overhaul carburettor fuel system components

Release: 1

AURTTF007 Overhaul carburettor fuel system components

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to return carburettor fuel system components to original manufacturer tolerances and clearances. It involves preparing for the task, dismantling and evaluating the carburettor fuel system components, carrying out the overhaul procedures, reassembling and testing the carburettor fuel system components, and completing workplace processes and documentation.

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

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

Competency Field

Mechanical Miscellaneous

Unit Sector

Technical - Fuel Systems

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 dismantle carburettor fuel system components	1.1 Job requirements are determined from workplace instructions 1.2 Dismantling information is sourced and interpreted 1.3 Dismantling options are analysed and those most appropriate to the circumstances are selected

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.
	1.4 Hazards associated with the work are identified and risks are managed 1.5 Dismantling tools and equipment are selected and checked for serviceability
2. Dismantle and evaluate carburettor fuel system components	2.1 Components are dismantled in a logical sequence according to manufacturer and workplace procedures, and <i>safety and environmental requirements</i> , and without causing unnecessary damage to components or systems 2.2 Components are cleaned for evaluation according to workplace procedures and safety and environmental requirements 2.3 Components are measured and compared with manufacturer specifications and serviceability is determined 2.4 Component repair method is determined 2.5 Unserviceable parts are identified and replacement parts sourced
3. Carry out overhaul	3.1 Overhaul information is sourced and interpreted 3.2 Overhaul options are analysed and those most appropriate to the circumstances are selected 3.3 Overhaul tools and equipment are selected and checked for serviceability 3.4 Components are machined, repaired and replaced as required, and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems
4. Assemble components	4.1 Components are assembled according to manufacturer specifications, workplace procedures, and safety and environmental requirements 4.2 Tolerances and clearances are measured against manufacturer specifications and necessary adjustments are made 4.3 Assembly of components is completed within workplace timeframes and without causing damage to other components or systems 4.4 Post-assembly testing is carried out according to workplace procedures and safety and environmental requirements, and any problems detected as having been introduced during the assembly process are rectified

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.
5. Complete work processes	<p>5.1 Final inspection is made to ensure work is to workplace expectations and components are presented ready for use or storage</p> <p>5.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected</p> <p>5.3 Tools and equipment are checked and stored according to workplace procedures</p> <p>5.4 Workplace documentation is processed according to workplace procedures</p>

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:	<ul style="list-style-type: none"> locate sources of information for carburettor fuel system components efficiently.
Reading skills to:	<ul style="list-style-type: none"> interpret and assess information from manufacturer and workshop literature when seeking carburettor fuel system component specifications and procedures.
Writing skills to:	<ul style="list-style-type: none"> legibly and accurately fill out workplace documentation when reporting diagnostic findings, making repair recommendations, and recording parts and material used.
Oral communication skills to:	<ul style="list-style-type: none"> clarify instructions, report evaluation findings and make overhaul recommendations.
Numeracy skills to:	<ul style="list-style-type: none"> measure carburettor fuel system components and use basic mathematical operations, including addition, subtraction, multiplication and division, to calculate distances, areas, volumes, tolerances and deviations from manufacturer specifications.
Planning and organising skills to:	<ul style="list-style-type: none"> plan own work requirements and prioritise and sequence actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Technology skills to:	<ul style="list-style-type: none"> use precision measuring equipment, such as vernier calipers and micrometers.

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.

<p><i>Safety and environmental requirements</i> must include:</p>	<ul style="list-style-type: none"> • work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for using: <ul style="list-style-type: none"> • specialised fuel system component overhaul tools, equipment and machinery • chemicals and toxic cleaning substances • environmental requirements, including procedures for trapping, storing and disposing of fluids released from fuel systems.
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Unit Mapping Information

Equivalent to AURTT4007 Overhaul petrol fuel system components

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>