



Australian Government

AURTTF102 Inspect and service diesel fuel injection systems

Release: 1

AURTTF102 Inspect and service diesel fuel injection systems

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 inspect and service diesel fuel injection systems. It involves preparing for the task, inspecting the fuel injection system for leaks, inspecting the air filter, reporting the inspection findings, servicing and adjusting the system, and completing workplace processes and documentation.

The unit applies to those working in the automotive service and repair industry. The diesel fuel injection systems include those of agricultural machinery, heavy commercial vehicles, light vehicles, marine vessels, motorcycles, mobile plant or outdoor power equipment.

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

Unit Sector

Mechanical Miscellaneous Technical – Fuel Systems

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 inspect and service diesel fuel injection system	1.1 Determine job requirements from workplace instructions 1.2 Source and interpret servicing information 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check tools, equipment and materials for serviceability
2. Inspect diesel fuel injection system	2.1 Carry out inspection according to manufacturer specifications, workplace procedures, and safety and environmental requirements 2.2 Compare inspection results with manufacturer specifications 2.3 Report inspection findings according to workplace procedures

ELEMENTS	PERFORMANCE CRITERIA
3. Service diesel fuel injection system	<p>3.1 Carry out service and adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems</p> <p>3.2 Carry out post-service testing according to workplace procedures, including engine start-up check for leaks and operation</p>
4. Complete work processes	<p>4.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use</p> <p>4.2 Clear work area and dispose of or recycle materials according to workplace procedures</p> <p>4.3 Complete documentation according to workplace procedures</p>

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	<ul style="list-style-type: none"> Locates required sources of information efficiently.
Numeracy	<ul style="list-style-type: none"> Calculates liquid volumes and service schedule intervals using basic mathematical operations, including addition and subtraction.
Oral communication	<ul style="list-style-type: none"> Clarifies instructions.
Reading	<ul style="list-style-type: none"> Interprets information from manufacturer and workshop literature when seeking service procedures and specifications relating to diesel fuel injection systems.
Problem solving	<ul style="list-style-type: none"> Refers problems outside area of responsibility to required person.

Unit Mapping Information

Supersedes and is equivalent to AURTTF002 Inspect and service diesel fuel injection systems.

Links

Companion Volume Implementation Guide is found on VETNet -

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