

AURTTA113 Diagnose and repair hydraulic systems

Release: 1

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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 diagnose and repair hydraulic systems. The unit involves preparing for the task, sourcing a diagnostic testing strategy, diagnosing the cause of the fault, carrying out the repair, performing post-repair testing, and completing workplace processes and documentation.

The unit applies to those working in the automotive service and repair industry. The hydraulic systems include those in heavy commercial vehicles, marine vessels or outdoor power equipment. This unit does not apply to agricultural or mobile plant machinery.

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

Unit Sector

Mechanical Miscellaneous Technical

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
Prepare to diagnose and repair hydraulic system	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for diagnosis activity 1.3 Analyse diagnostic options and source testing strategy to identify cause of fault using workplace and manufacturer procedures
	1.4 Identify hazards and environmental issues associated with diagnose and repair activity, assess potential risks and implement control measures in line with workplace policies and procedures1.5 Identify tools and equipment required for testing strategy

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ELEMENTS	PERFORMANCE CRITERIA
	and establish serviceability according to workplace procedures
2. Diagnose hydraulic system	2.1 Implement diagnostic tests set out in testing strategy according to manufacturer and workplace procedures, and workplace health and safety requirements
	2.2 Identify cause of fault through analysis of diagnostic test results
	2.3 Confirm and report cause of fault according to workplace procedures
	2.4 Develop and report recommendations for necessary repairs according to workplace procedures
3. Repair hydraulic system	3.1 Identify required information for repair activity
	3.2 Identify tools, equipment and materials required for repair activity and establish serviceability according to workplace procedures
	3.3 Carry out repairs according to workplace and manufacturer procedures, manufacturer specifications, workplace health and safety and environmental requirements
	3.4 Carry out post-repair testing according to workplace procedures, workplace health and safety and environmental requirements
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm vehicle or machinery is ready for use
	4.2 Clear work area and dispose of or recycle materials according to workplace procedures
	4.3 Complete documentation 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
	• Develops a sequenced plan for a specific task.
Reading	 Organises and interprets technical information from workplace procedures, manufacturer procedures and manufacturer specifications
	 Interprets hydraulic symbols and circuits.

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SKILL	DESCRIPTION
Oral communication	Clarifies instructions
	Obtains information from customers and supervisors.
Numeracy	Measures hydraulic system components
	Uses mathematical operations
	Calculates deviations and tolerances from manufacturer
	specifications
	 Calculates hydraulic system pressures, forces, distances and temperature
	Interprets precision measuring equipment.
Planning and organising	Plans own work requirements
	Prioritises actions to achieve required outcomes
	Ensures tasks are completed within workplace timeframes.
Technology	Uses precision measuring equipment.

Unit Mapping Information

Supersedes and is equivalent to AURTTA013 Diagnose and repair hydraulic systems.

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1

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