Fuel Cell Standards

XVIII. Anode Subsystem

XVIII.e Liquid Water Removal

Overview:

Classroom and lab topics

- Logic in determination of a fault
- Schematic representations versus actual components
- Trouble codes associated with liquid water removal
- Level sensor operation and trouble codes

Description:

Liquid water may accumulate on either the anode or cathode side of the fuel cell requiring valves either passive or active to avoid channel blockage or potential freeze damage of the system

Outcome (Goal):

Student will be able to identify the liquid water purge system and failure modes.

Objectives:

Students shall be able to:

1. Following OEM service procedures identify the location and remove and replace the liquid water purge assembly if accessible.

Tasks:

Students will

1. Use a schematic, OEM service instructions and an OEM vehicle or complete fuel cell system to identify liquid water removal subsystem
2. Verify proper operation of the liquid water removal system including any level system

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To comment or offer suggestions on this standard, contact Ken Mays:

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