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Coolant Line Description, Operation, and Location

PDO.0057 Ver. 1.0 December 1, 2022

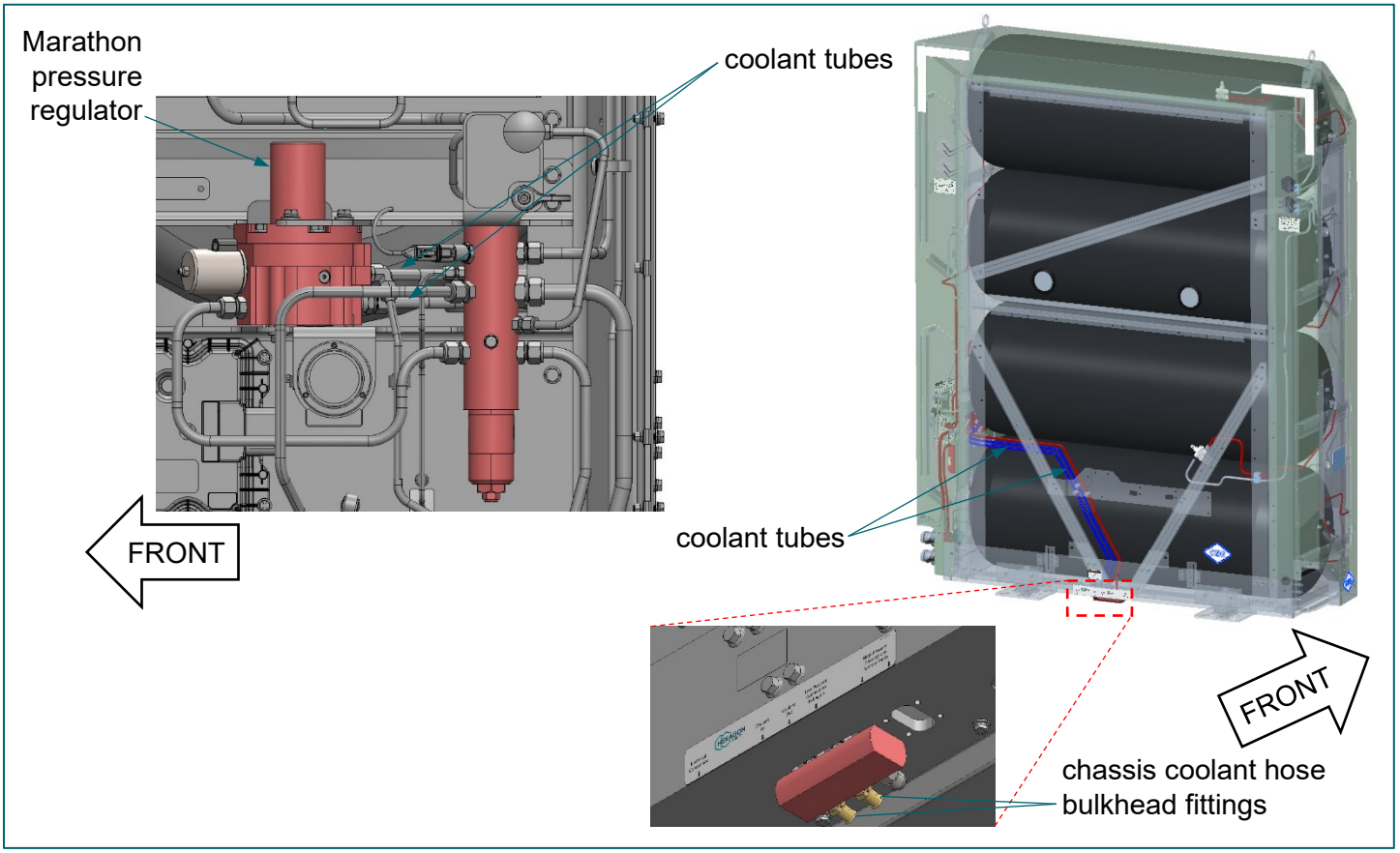
The compressed natural gas (CNG) fuel system pressure regulator contains internal passages for the circulation of warm vehicle engine coolant to prevent fuel freeze up. Coolant lines may consist of rigid coolant tubes connected with compression fittings or flexible coolant hoses secured with hose barb fittings and clamps. Additional coolant line bulkhead connections may be present on fuel system cabinets.

Coolant Line Locations and Connections

Coolant lines are routed from the vehicle engine compartment to the pressure regulator inside the fuel management module (FMM). Coolant tubes and hoses are mounted to the chassis frame and fuel system structure using clamps and/or clips spaced per specifications in ENP-524. Protective wrap and/or heat sleeve may also be installed on coolant hoses as required in Hose, Tube, Harness, and Cable Routing and Clipping.

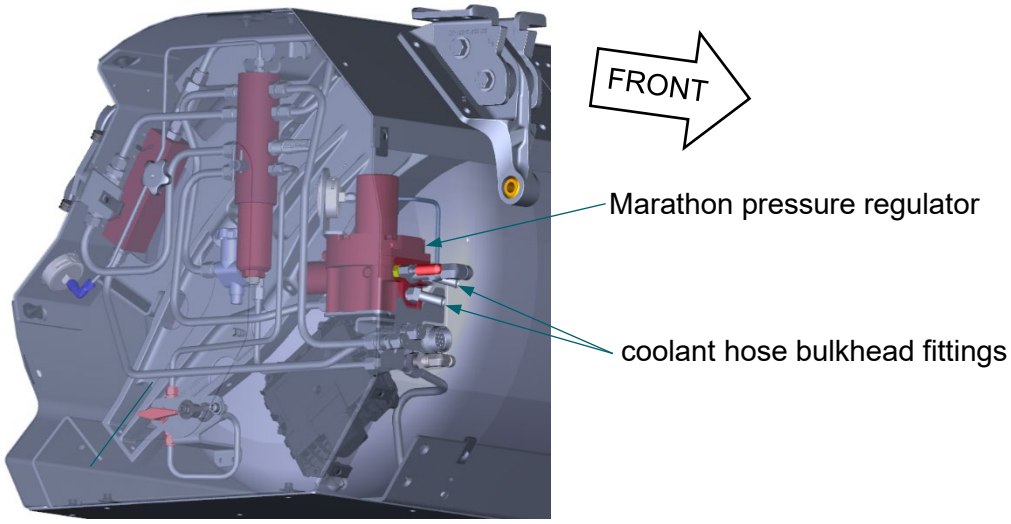


Fuel system coolant hose with protective wrap installed

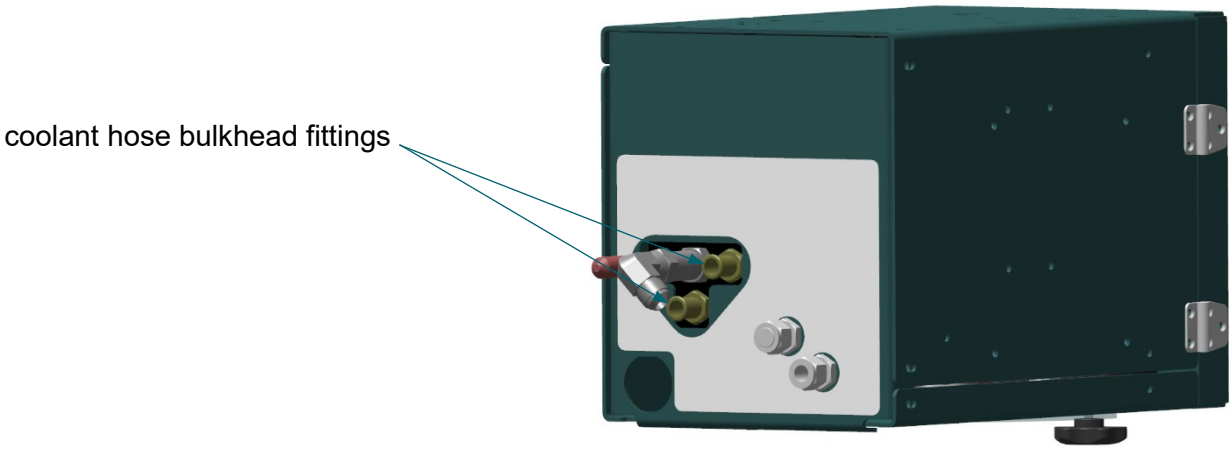


Fuel system coolant tube connections on a 317-series ProCab® behind the cab (BTC) system.

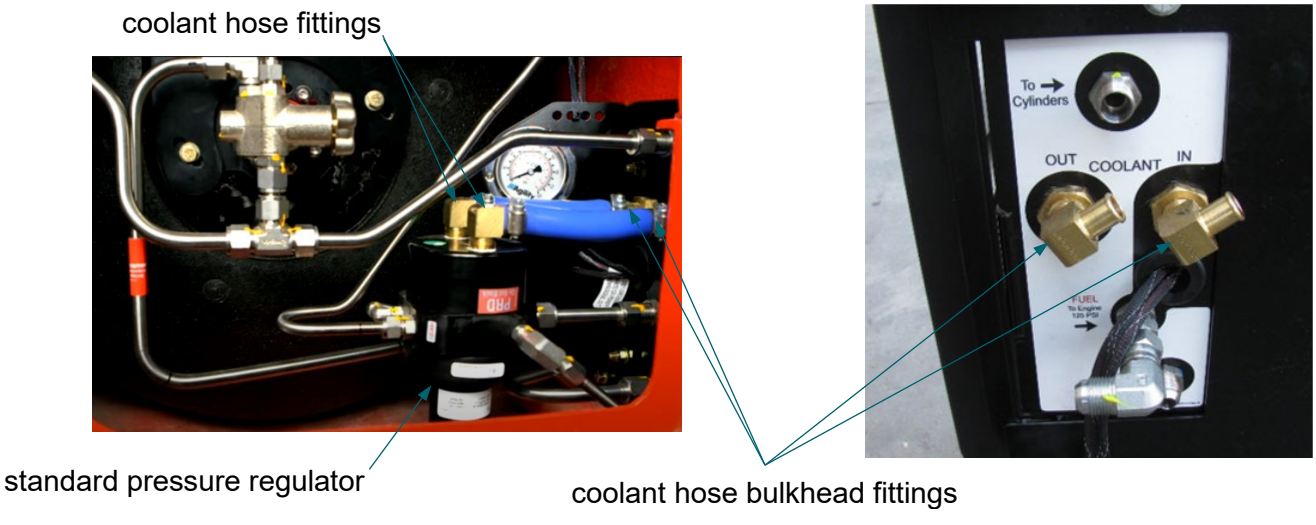
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Coolant hose connections at the rear of a 287-series ProRail® side mount system with integrated FMM



Coolant hose connections at the rear of a box FMM



Coolant hose pressure regulator connections inside and at the rear of a ProRail® side mount system

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Revision Log			
Rev	Date	Team	Changes
DRAFT	11/28/2022	C. Grasso	SOURCE: ENP-516 Rev E.
-	12/1/2022	J. Wainz	ADDED: section on routing and clipping. APPROVED.
1.0	12/1/2022	C. Grasso	UPLOADED to Helpdesk. SAVED to CCTS Z:drive