

Oil Cooler Line, Installation
VN, VHD, VT**FSB 491-030, Oil Cooler Line, Installation****(June 2016)**

When installing a new radiator and/or engine cooling package on vehicles built prior to April 4th, 2016, new transmission oil cooler lines will be necessary to connect the new radiator. The new transmission oil cooler lines increase the sealing capability.

Required Parts

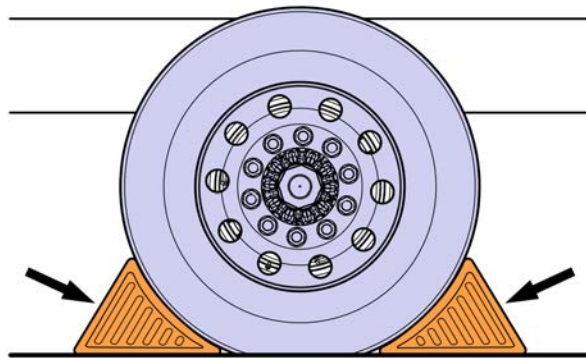
Please refer to “TPI 261-050, Hose and Fittings” for parts information.

Decommissioning the Truck for Repair

You must read and understand the precautions and guidelines in Service Information, group 40, "General Safety Practices, Transmission" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

NOTE: Information is subject to change without notice. Illustrations are used for reference only and can differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

- 1 Park the vehicle on a flat and level surface.
- 2 Apply the parking brake.
- 3 Place the transmission in neutral or park.
- 4 Install the wheel chocks.



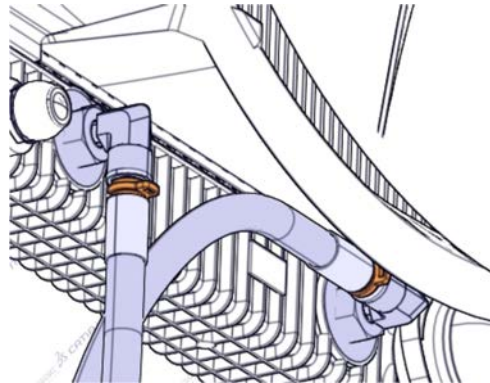
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- 5 Unlatch and remove the battery box cover.
- 6 Disconnect the cable from the battery's negative terminal.

Transmission Cooler Line, Replacement

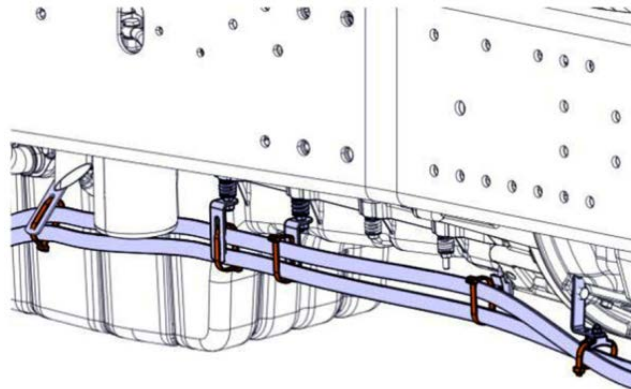
- 1 Disconnect hoses and remove the radiator and/or engine cooling package.

Note: For more information, refer to the "Radiator Replacement" service information.



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- 2 Remove the clamps and ties securing the lines to the brackets and transmission.



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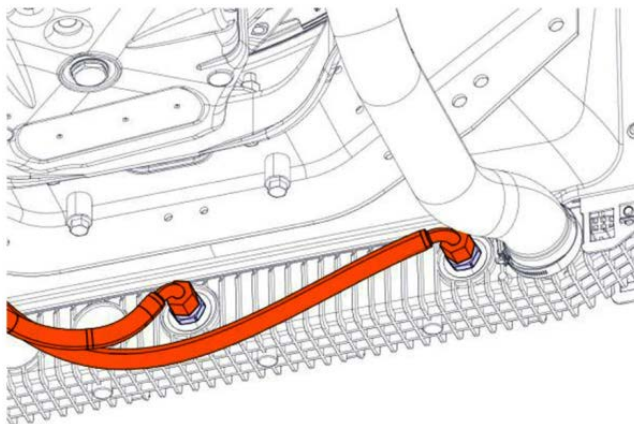
- 3 Disconnect the lines at the transmission.

Note: Place a suitable container under the transmission to catch any residual oil.

- 4 Remove the lines.
- 5 Remove the fittings from the transmission.
- 6 Install new fittings on the transmission. Use thread sealant as necessary. The radiator will already have the new style fitting.

- 7 Connect the lines at the radiator.

Note: Hand tighten only.



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- 8 Connect the lines at the transmission.

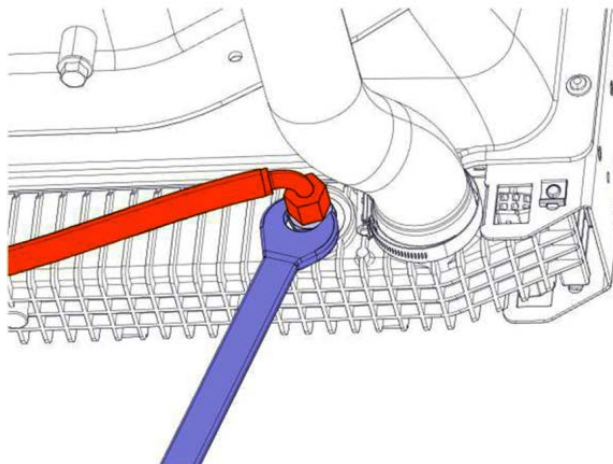
Note: Hand tighten only.

- 9 Torque-tighten the fitting nuts at the radiator to 45 ± 2 Nm (33 ± 2 ft-lb), using a back-up wrench.



CAUTION

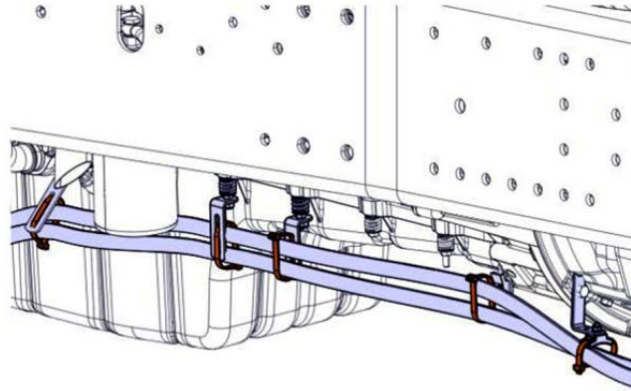
The fitting on the radiator must be supported and remain stationary when tightening the line fitting nuts. Damage to the radiator will occur if the fitting is allowed to move.



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- 10 Torque-tighten the fitting nuts at the transmission to 42 ± 2 Nm (31 ± 2 ft-lb).

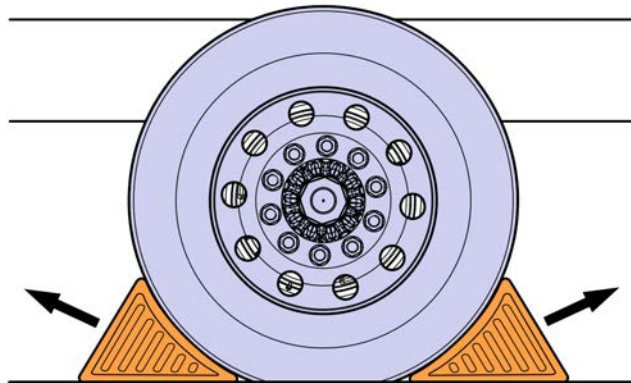
11 Secure the lines.



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Commissioning the Truck for Operation

- 1 Connect the battery cable to the battery's negative (ground) terminal. Tighten the fastener to 21 ± 1 Nm (16 ± 1 ft-lb).
- 2 Position and latch the battery box cover.
- 3 Start the engine and check for leaks.
- 4 Check the transmission oil level. Replenish with the correct fluid as needed.
- 5 Remove the wheel chocks.



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Reimbursement

This repair may be eligible for reimbursement if a product failure was experienced within time and mileage limits of the applicable Warranty coverage. Reimbursement is obtained via the normal claim handling process.	UCHP Reimbursement
Claim Type (used only when uploading from the Dealer Bus. Sys.)	01
Labor Code	
Primary Labor Code (Oil Cooler Line, Installation)	4912-02-09-01 0.6 hrs.
Causal Part	21593032 or 21593038

Note: This only covers transmission oil cooler radiator replacements that are under warranty.

VOLVO Trucks North America reserves the right to make any changes in design or to make additions to or upon its products without incurring any obligations to install the same on vehicles previously built.