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Title: CV Heater Core Outlet Tube

Applies To: CV

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

08/10/2021 - Initial Article Release

DESCRIPTION

A coolant leak can develop from a cracked heater core outlet tube along the lower engine bracket weld. A redesigned tube, bracket and clamp has been released to resolve this concern.

SYMPTOM(s)

Coolant leak from front or passenger side of vehicle.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
N/A	N/A

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Coolant Recovery Tool	KL5007NAV-U		

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
Pipe, Heater, Return Aluminum	2523133C1	1	
Support, Lower, Heater Return Non-AC	4282049C1	1	
Clamp 5/8 Cushioned	7095515C1	1	
Bolt, Flange Head M8 x 25	31055R1	1	
Nut, Hexagon Flange	40050R1	1	

DIAGNOSTIC STEP(s)

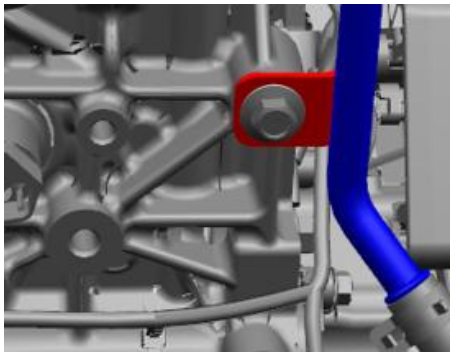
Refer to Cooling System Leak Test per (2018-2020 International CV Technician Manual (Service and Diagnostic) 0001111853.

Yes, coolant is leaking from the heater outlet pipe, proceed with article.

No, refer to Engine Cooling Operational Checkout Procedure to find the source of the coolant leak.

REPAIR STEP(s)

Current Welded Design



Step 1: Open hood assembly.

Step 2: Drain cooling system.

Step 3: Remove right front inner fender.

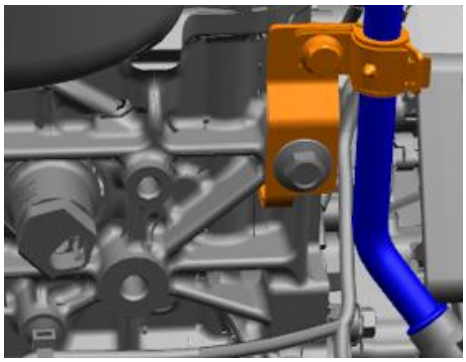
Step 4: Remove intake air box top and lower box.

Step 5: Unlatch the heater hose from the outlet tube.

Step 6: Remove the lower hose and clamp.

Step 7: Remove both bolts and tube from engine compartment. Do not discard bolts save for reuse.

Updated Non-Welded Clamp Design



Step 8: Install support (4282049C1) into the original bracket location. Torque support bolt to (62-84 ft-lb) or (85-115 Nm).

Step 9: Position outlet heater tube (2523133C1) into the engine compartment.

Step 10: Install upper outlet heater tube bolt and lower clamp, bolt and nut until the tube is properly positioned, (7095515C1, 31055R1, 40050R1).

Step 11: Torque lower clamp bolt and nut to (20-26 ft-lb) or (27.8-34.8 Nm).

Step 12: Torque upper bracket bolt to (10-13 ft-lb) or (14.1-17.6 Nm).

Step 13: Reinstall heater hoses and clamps.

Step 14: Vacuum test and refill cooling system. If no leaks are found proceed with the final steps.

Step 15: Reinstall inner fender, lower and top air intake box components.

Step 16: Close hood and road-test vehicle to recheck engine operation.

WARRANTY INFORMATION

Warranty Claim Coding:

SRT:	CV12-3761A
Noun:	Cooling System

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