



Countries:	CANADA, UNITED STATES, MEXICO	Document ID:	IK1900247
Availability:	ISIS, Fleet!SIS, IsSIR	Revision:	1
Major System:	ACCESSORIES	Created:	6/19/2017
Current Language:	English	Last Modified:	6/26/2017
Other Languages:	NONE	Author:	Amber Chapman
Viewed:	156		

[Less Info](#)

Hide Details

Coding Information

Copy Link 	Copy Relative Link 	Bookmark View My Bookmarks	Add to Favorites 	Print 	Provide Feedback 	Helpful 5	Not Helpful 0
---------------	------------------------	---	----------------------	-----------	----------------------	------------------	----------------------

Title: LT Day Cab A/C Concerns Leaks or Inoperative A/C

Applies To: LT Day Cab

CHANGE LOG

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

06/26/2017 - Initial Article Release

DESCRIPTION

This document will guide the user through diagnosing a complaint of inoperative A/C and provide direction and part numbers for replacement for vehicles built only between: 11/07/2016- 06/12/2017

Vehicles may have a cracked low pressure (suction) A/C hose 4090345C91 from Evaporator to Compressor. Cracked hose may also result in an evaporator failure, leak at the evaporator or front TXV.

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):
SPN2609 FMI1 Cab A/C Refrigerant Compressor Outlet Pressure

Customer Observations or Concerns:
Customer states that the A/C is inoperative, leak is present at the evaporator or front TXV, or evaporator has failed.

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
------------------	-------------	----------	--------------

A/C Machine	N/A		
-------------	-----	--	--

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required
Hose (Suction), Air Conditioning, Evaporator to Compressor	2517566C91	1
Bolt, Flange Head M8x20 (Support Bracket)	3547776C1	1 or 2 As needed for support bracket
Nut, Class 10 M8x1.25	31082R1	1 or 2 As needed for support bracket
Seal, Face 1/2" (Slimline washer)	3766705C1	2
Seal, Face 5/8" HNBR (Slimline washer)	3766706C1	1
Seal, Face 3/4" (Slimline washer)	3766707C1	1
Seal, C-Plate 3/4" (Washer)	3543882C1	1
O-ring seal 3/4" (35/64"x2 5/8")	3543728C1	1
Dessicant kit, condensor	2517315C91	1
Evaporator, Air Cond w/ seal	4068875C2	1 As needed
Kit, Expansion Valve (TXV)	2516574C91	1 As needed

DIAGNOSTIC STEP(s)

WARNING:

To prevent property damage, personal injury and/or death, park vehicle on a hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING:

To prevent property damage, personal injury and/or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

**WARNING:**

To prevent property damage, personal injury and/or death, always wear eye protection when performing vehicle maintenance.

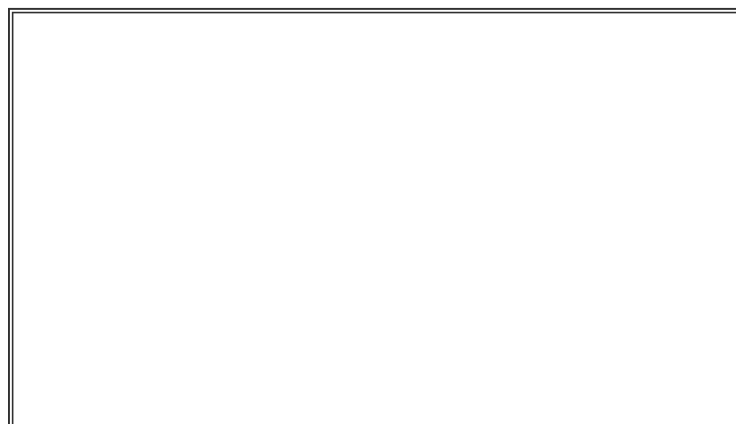
REPAIR STEP(s)

1. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral, set parking brake, and install wheel chocks.
3. Unlatch and open hood.
4. See LT/RH Technician Manual (Service and Diagnostic) for Evacuation Procedure.
5. Inspect low pressure (suction) A/C hose and crimps/fittings from evaporator to compressor for signs of failure/leaks/cracking. See Figure #1. Continue with remaining steps and if needed, replace hose at step 10.



Figure #:1 Sample cracked A/C hose evaporator to compressor

6. Inspect the remainder of the HVAC system with blacklight, with special attention to the Thermal Expansion Valve (TXV) area. If leak is present, inspect TXV mating surfaces for damage. If damaged, replace TXV and seals in step 11.
7. Inspect four HVAC housing mounting nuts that hold the Air Inlet Assembly to bulkhead. If loose, torque to 6.0-7.2 Nm (53 lb-in to 64 lb-in). See Figure # 2.



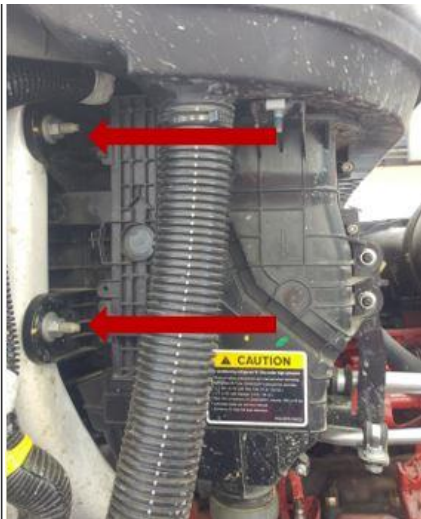


Figure #2: Mounting Nuts (4) to Torque

8. Inspect two A/C evaporator to compressor hose support bracket bolts that go through the front of the HVAC Air Inlet Assembly. If missing, install and torque M8x20 bolt(s) to 23 Nm (17 lb-ft). See Parts List. See Figure #3.



Figure #3: A/C hose support bracket bolts

9. If leak was found at Thermal Expansion Valve (TXV) step 6 OR if bolts were loose in step 8, replace the evaporator. See Parts List.
10. If failed A/C evaporator to compressor hose was found at step 5, replace hose.
11. If damaged, replace TXV and seals. Torque TXV mounting hardware 5.5 Nm (11.5 lb-ft).
12. Replace condensor dessicant kit. See Parts List.
13. See LT/RH Technician Manual (Service and Diagnostic) for Fill Procedure
14. Start vehicle to verify proper operation, no leaks, and no fault codes are present.
15. Close and latch hood.
16. Remove wheel chocks.

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Group:	19000 - Accessories
Noun:	352 - Hose/Pipe

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

Description	Chassis	Engine	SRT
Air Conditioning System Recover, Evacuation and Recharge	All	All	A19-7005A-22
HVAC Refrigerant Hoses, Replace	LT	All	LT19-5352A-22
Receiver Dryer, Replace	LT	All	LT19-6149A-20
HVAC Tests, Leak Test Refrigerant Present	LT	All	LT19-2004A

OTHER RESOURCES

[Master Service Information Site](#)

 Hide Details

Feedback Information

Viewed: 155
 Helpful: 5
 Not Helpful: 0

No Feedback Found