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Coding Information

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Title: LT A/C Catastrophic Failure Parts Kit

Applies To: LT Day Cab / LT Sleeper with A/C

CHANGE LOG

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

08/22/2024 - Initial Article Release

DESCRIPTION

This document provides guidance on the available parts kits for servicing the A/C system in the event of a catastrophic failure. These parts kits will include all the necessary components needed to repair a catastrophic failure, with the exception of the A/C compressor.

- **NOTE: A failure is considered catastrophic when metal debris has contaminated the A/C system.**

This document will also provide a brief overview of the components expected to be replaced during a catastrophic failure. Typically, a catastrophic failure necessitates the replacement of the compressor, condenser, and TXV, along with flushing the rest of the system.

SYMPTOM(s)

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

A DTC may not trigger for this event, below is an example of a possible code that could be present during or after a catastrophic A/C compressor failure.

DTC/Light	Description
SPN 2609 FMI 15	PT Sensor - HVAC Low-Pressure Protection (A/C Compressor Lockout)
Possible to have no fault codes or several more	

Customer Observations or Concerns:

- Electronic Gauge Cluster (EGC) will display "**Check A/C**"
- A/C inoperative, A/C blows warm
- A/C clutch failure, A/C clutch making noise

SPECIAL TOOL(s) / SOFTWARE

Not Applicable

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

LTs have four different A/C compressors. Order the corresponding compressor in conjunction with the day cab or sleeper cab kit configuration below:

Kit Description	Part Number	Quantity Required	Notes
<u>Kit, LT compressor replacement w/sleeper</u>	<u>2524541C91</u>	1	The parts below are included in this kit. *see note
SEAL C-PLATE 1/2 IN	3543881C1	3	
SEAL C-PLATE 3/4"	3543882C1	1	
CORE VALVE ASSY A/C CHARGING V	3544706C1	1	
SEAL FACE-1/2 INCH	3766705C1	1	
SEAL FACE 3/4 INCH	3766707C1	1	
AC FITTING, VALVE CORE ONE-PI	4053751C1	1	
SENSOR, FREEZE PROBE	4068880C1	1	
KIT, O-RINGS	2517558C1	2	
KIT, EXPANSION VALVE	2516574C91	1	
CONDENSOR, LEFT NON-HX AND HV	2518753C92	1	
KIT, EXPN VALV PLATE, SCREWS	2517576C1	1	
<u>Kit, LT compressor replacement day cab</u>	<u>2524540C91</u>	1	The parts below are included in this kit. *see note
SEAL C-PLATE 1/2 IN	3543881C1	3	
SEAL C-PLATE 3/4"	3543882C1	1	
CORE VALVE ASSY A/C CHARGING V	3544706C1	1	
SEAL FACE-1/2 INCH	3766705C1	1	
SEAL FACE 3/4 INCH	3766707C1	1	
AC FITTING, VALVE CORE ONE-PI	4053751C1	1	
SENSOR, FREEZE PROBE	4068880C1	1	

KIT, O-RINGS	2517558C1	1	
KIT, EXPANSION VALVE	2516574C91	1	
CONDENSOR, LEFT NON-HX AND HV	2518753C92	1	

***Note: A/C compressor is not included in this kit.**

- There are four types of A/C compressors on LTs.
- Order the corresponding A/C compressor in conjunction with the above parts kit.

DIAGNOSTIC STEP(s)

Refer to the service manual for proper procedures for diagnosing a catastrophic A/C compressor event.

REPAIR STEP(s)

During a catastrophic failure of an A/C compressor, it is expected that a system flush is performed and the following components are to be replaced: compressor, condenser, & TXV.

High-level reminders/notes for catastrophic failures within the A/C system:

- Air conditioning (A/C) systems that have had an internal compressor failure, have been overcharged with refrigerant oil, or have been left open for an extended period must be flushed and purged. Flushing and purging must be done in segments (never larger than one component and one line) to avoid blowing contaminants throughout the A/C system. All A/C components must be flushed and purged in the opposite direction of normal refrigerant flow.
- Never attempt to flush or purge the compressor, integrated receiver drier, Thermal Expansion Valve (TXV), or the entire A/C system. Start the A/C flush and purge procedure by flushing the cab evaporator.
- Condensers must be replaced on A/C systems that have had a catastrophic compressor failure.
- Flush and purge the air conditioning (A/C) condenser if the A/C system has been overcharged with refrigerant.
- Determine if the Air Conditioning (A/C) compressor is failing or has failed, and determine if there is metal in the A/C system, by removing the desiccant bag from the condenser-integrated receiver dryer. A magnet can not be used to check for metal shavings because shavings can be aluminum.

REMOVAL PROCEDURE:

Refer to appropriate service manual steps for guidance.

INSTALLATION PROCEDURE:

Refer to appropriate service manual steps for guidance

Training Recommendation:

To review the flushing process or brush up on the training, please follow the link below and locate the course "**A/C System Flushing (8335) in HVAC**".

Or you can review the flushing procedures from the course materials here:

- [AC Flush Quick Reference Guide](#)
- [Study Guide - AC System Flushing](#)

LMS - [Learning Management System](#)

WARRANTY INFORMATION

Not Applicable

Warranty Claim Coding:

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

Not Applicable

Standard Repair Time(s):

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

OTHER RESOURCES

[Master Service Information Site](#)

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