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Title: LT CRX50 Refrigerator Diagnostics

Applies To: All LT Chassis Equipped with the CRX50 Refrigerator

CHANGE LOG

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

08/17/2018 - Updated part number.
 08/16/2018 - Added Figure 1 for clarification.
 12/05/2017 - Revised performance test instructions.
 10/25/2017 - Revised door seal inspection guidelines.
 08/16/2017 - Updated performance test instructions relating to the freezer door, included refrigerator model affected.

DESCRIPTION

This document will guide the user through diagnosing refrigerator complaints such as an inoperable refrigerator, under cooling, and loose door hinges.

NOTE:

The guidelines listed below are for the refrigerator model CRX50 ONLY

CUSTOMER OBSERVATIONS OR CONCERNS:

Some symptoms the customer may experience are a refrigerator that does not come on at all, the refrigerator runs but will not cool properly, or the door hinges may not stay secure.

SPECIAL TOOL(s) / SOFTWARE

Not Applicable

SERVICE PARTS INFORMATION

Description	Part Number	Quantity	Notes
Refrigerator, Full Assembly	4086649C93	1	Feature Code 08WLA

DIAGNOSTIC STEP(s)

The steps below will focus one at a time on the three driver complaints that may be present.

LOOSE DOOR HINGE OR SEAL:

Step	Action	Decision
1	DIAGNOSTIC: Open the refrigerator door and verify the condition.	Yes: Proceed to step 2.

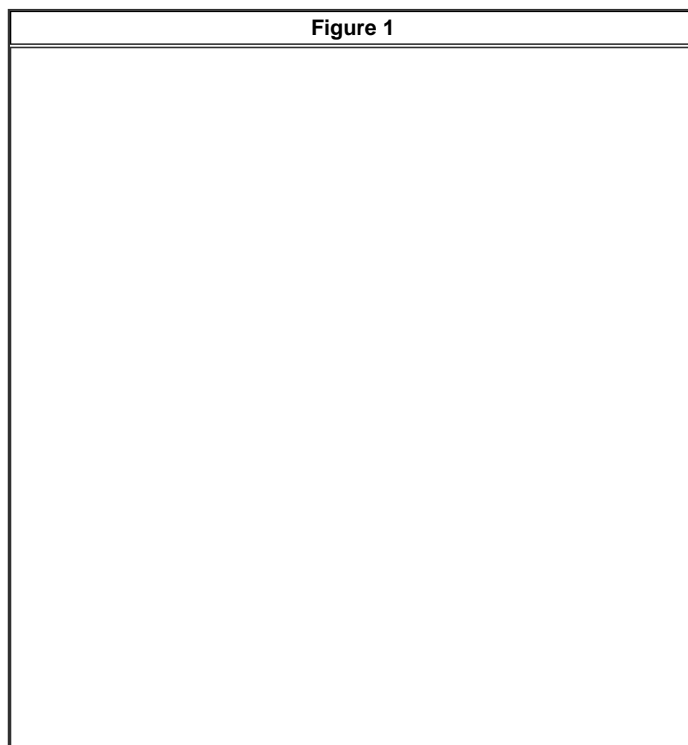
	Is the door tight on the hinge?	No: Attempt to tighten the hinge screw (s). If the screw(s) will not tighten then replace the refrigerator.
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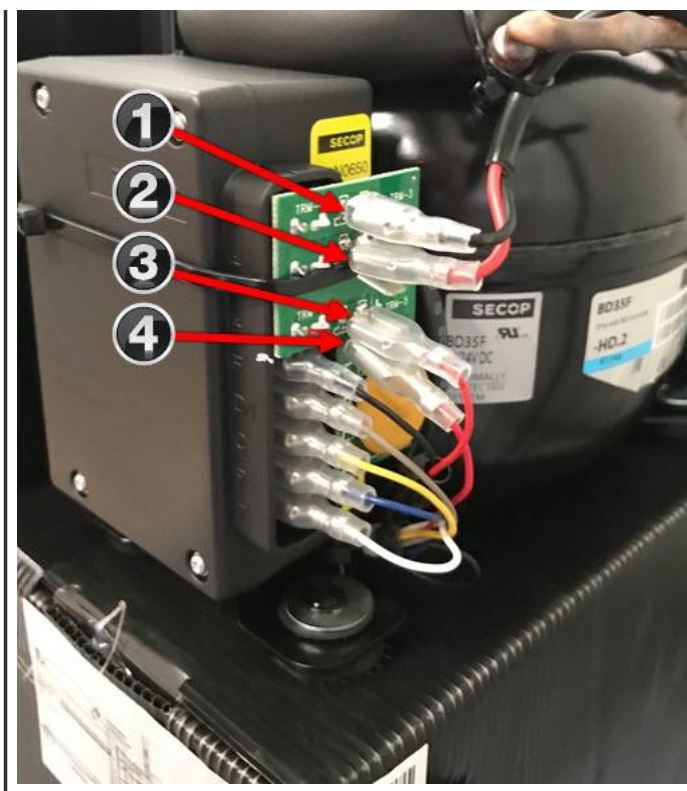
Step	Action	Decision
2	DIAGNOSTIC: Verify the door seal is secure. Check for a loose or damaged seal around the refrigerator door. Is the seal loose or damaged? NOTE: A cut or damaged seal is <u>NOT</u> a warrantable condition	Yes: If the seal is loose, cut or damaged, the refrigerator will need to be replaced. No: End of door / seal inspection.

REFRIGERATOR OPERATIONAL CHECKS:

Step	Action	Decision
1	Open the refrigerator door and verify operation. Is the light in the interior of the fridge illuminated? If it is NOT , first make certain the temperature dial is on the ON position. Does the light come on with the door open, and the temperature dial in the ON position?	Yes; Proceed to Refrigerator Performance Test . No: Carefully remove the refrigerator leaving the harness connected and proceed to step 2.

Step	Action	Decision
2	Verify power at the refrigerator supply. There needs to be a minimum of 12.0 volts to ensure the fridge controller is not in a low voltage shutoff mode. Check the main 12 ga. red wire for battery power. Is a minimum of 12.0 volts present at the main 12 ga. supply wire? NOTE: Check the 4 terminals on the refrigerator as shown in Figure 1 below.	Yes: Make certain the crimp connectors or spade terminals are not damaged, and that they fit tightly at the connection points and proceed to step 3. No: Check the power supply circuit for the cause of the low voltage. Make repairs as needed and retest for proper operation.





Step	Action	Decision
3	<p>Verify the ground at the refrigerator connection.</p> <p>Supply a known good battery negative connection to the fridge. Now, with a known good power supply over 12.0 volts, and good ground connection recheck for proper operation.</p> <p>Does the light illuminate, and the compressor turn on?</p>	<p>Yes: Check the ground circuit for the source of the poor ground. Make certain the crimp connectors or spade terminals are not damaged, and that they fit tightly at the connection points. Make wiring repairs as needed and retest for proper operation.</p> <p>No: Replace the refrigerator.</p>

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	19304 - Merchandising Items
Noun:	067 - Refrigerator

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

OTHER RESOURCES

[Master Service Information Site](#)

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