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Coding Information

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Title: Potential A/C Compressor Parts Shortage - 4158126C1

Applies To: LT, HX, and LoneStar with 2021 Cummins X15 Engines

CHANGE LOG

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

<p>7/7/2023 - Republishing article due to another parts shortage 7/28/2022 - Updated images 7/19/2022 - Initial Article Release</p>

DESCRIPTION

In the event of a backorder of A/C compressor PN 4158126C1, it may be necessary to use a 2017 X15 A/C compressor PN 3863068C4 on a 2021 X15 engine. This document will guide the user through modifying the 2017 X15 A/C compressor to be used on a 2021 X15 engine.

The 2017 Cummins X15 engine uses a compressor that is physically identical to the 2021 Cummins X15 engine compressor, with the exception of the electrical connector.

SYMPTOM(s)

Customer Observations or Concerns:

A/C Compressor Failure
A/C Inoperative

DTC/Light	Description
N/A	

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments

Tool, Hand Crimp	CK90-66	

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
COMPRESSOR, A/C	3863068C4	1	2017 X15 A/C Compressor
14-16 AWG Splice	3517502C1 or TXT126870104	2	
Heat Shrink Tubes	2644000R1 or TXT126870142	2	

REPAIR 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 personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

- 1.) Remove the failed A/C compressor from the vehicle. (Reference appropriate service manual for removal instructions.)
- 2.) Failed compressor: Cut tie strap securing the connector to the compressor body, push back protective sheathing, then cut the compressor harness 2 inches away from the connector (**Figure 1**).
- 3.) Replacement compressor: Cut tie strap securing the connector to the compressor body, push back protective sheathing, then cut the compressor harness 2 inches away from the connector (**Figure 2**).
- 4.) Using the procedure found in [IK0800269 - Proper Wire Repair](#), splice the connector and pigtail from the failed compressor on to the replacement compressor harness (**Figures 3 and 4**)

-Be sure to solder this connection. Failure to do so will result in a weak connection.

5.) Position harness sheathing so it covers the wire splices (**Figure 5**).

6.) Proceed with the installation of the replacement A/C compressor. (Reference appropriate service manual for installation instructions.)

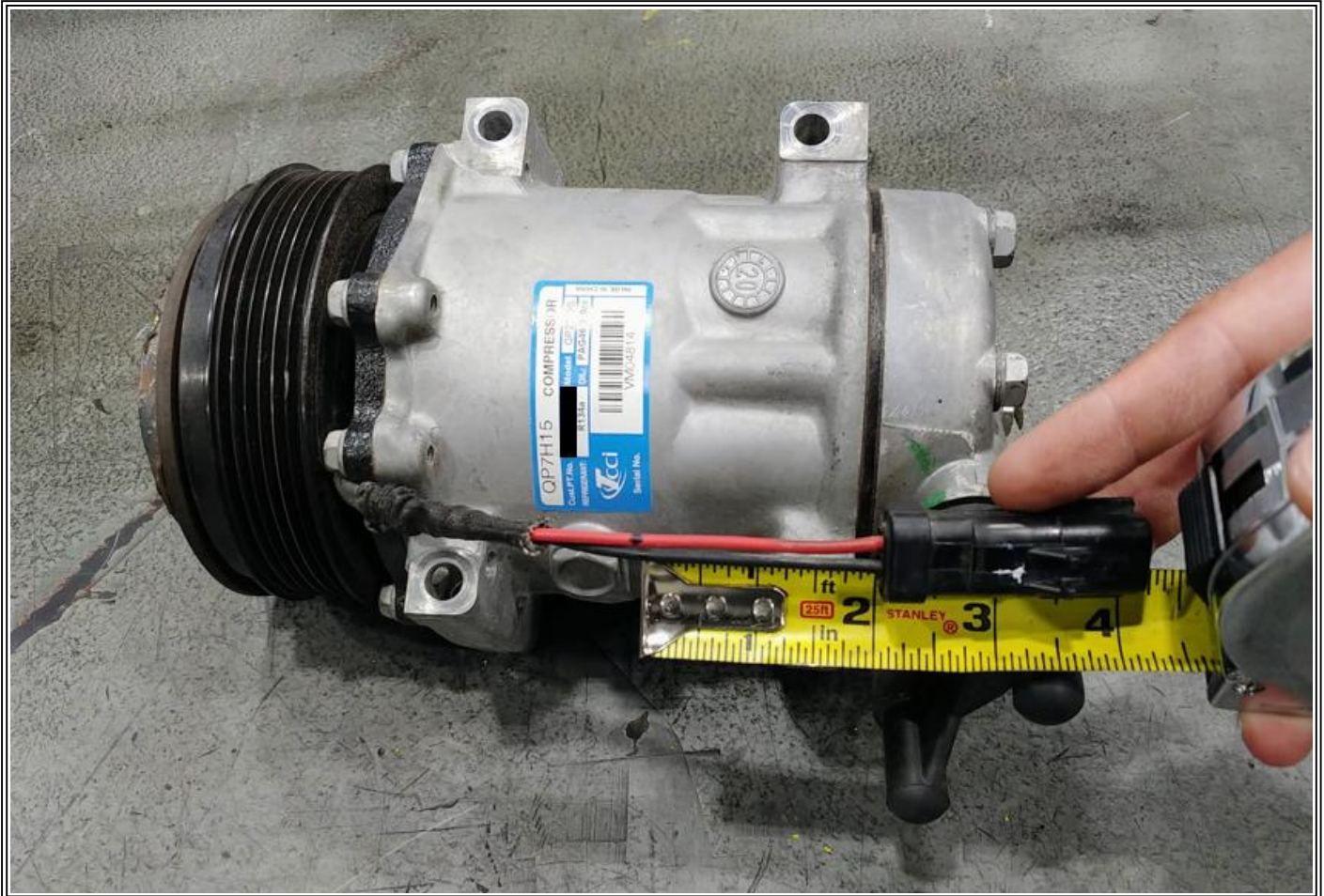


Figure 1: Measuring harness cut location on failed compressor

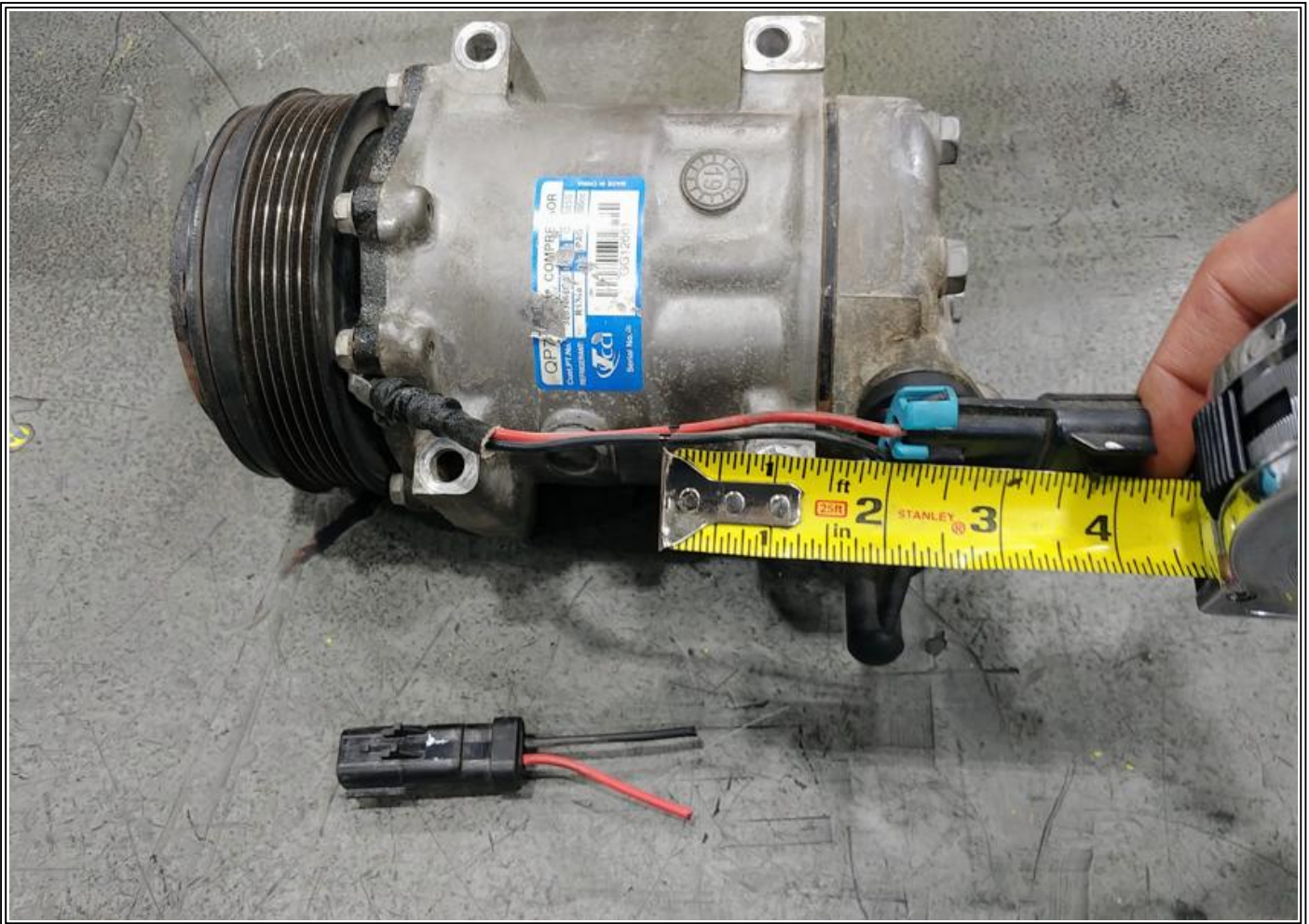


Figure 2: Measuring harness cut location on replacement compressor



Figure 3: Pigtail from failed compressor spliced on to replacement compressor



Figure 4: Completed splice



Figure 5: Wire sheathing positioned over splice

WARRANTY INFORMATION

Warranty Claim Coding:

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

Standard Repair Time(s):

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

OTHER RESOURCES

[Master Service Information Site](#)

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