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Other Languages: NONE
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Coding Information

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Title: LT Ultrashift 1321-14 Missing Wire for Crank Signal Feedback

Applies To: LT Ultrashift

CHANGE LOG

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

07/16/2018 - Added note with vehicle build date
02/23/2017 - Added 2501082C1 as a part number option based on feedback
10/24/2017 - Corrected typo
10/23/2017 - Added images 2-6 to help clarify installation of the new wire
08/31/2017 - Initial Article Release

DESCRIPTION

This document will guide the user through adding circuit AF17C to address the 1321-14 fault setting in the Eaton Automated Transmission Module. Source Address 3. The missing wire will not cause a symptom, or a customer complaint.

NOTE:

This only affects vehicles built prior to 08/01/2017

SYMPTOM(s)

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

DTC/Light	Description
SPN 1321 FMI 14	Engine Starter Solenoid Lockout Relay Driver Circuit

Customer Observations or Concerns:

The missing wire will not cause a customer complaint.

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Tool, Terminal Crimping	ZTSE4181		

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

Parts Catalog – [Click Here](#)

Part Description	Part Number	Quantity Required	Notes
Terminal, Cable EDU Module Female	2003343C1	1*	Package has quantity of 10 terminals
Terminal, Cable w/6" Lead	2501082C1	1*	Package has quantity of 10 terminals with 6" lead
*Only one part is required. Either the terminal alone (no pigtail), or the terminal with 6" lead (pigtail).			

REPAIR STEP(s)

Reference LT / RH Technician Manual (Service and Diagnostic)

Refer to Figure 1. On IP Harness, use 18 gauge wiring to splice into the wire that is going to 1702-16 and add wire 1702-21. Connector 1702 is a 42 pin connector and it is mounted near the wiper bracket in the engine compartment.

Use [IK0800269 - Proper Wire Repair](#) to find the proper butt connector and heat shrink tubing part numbers

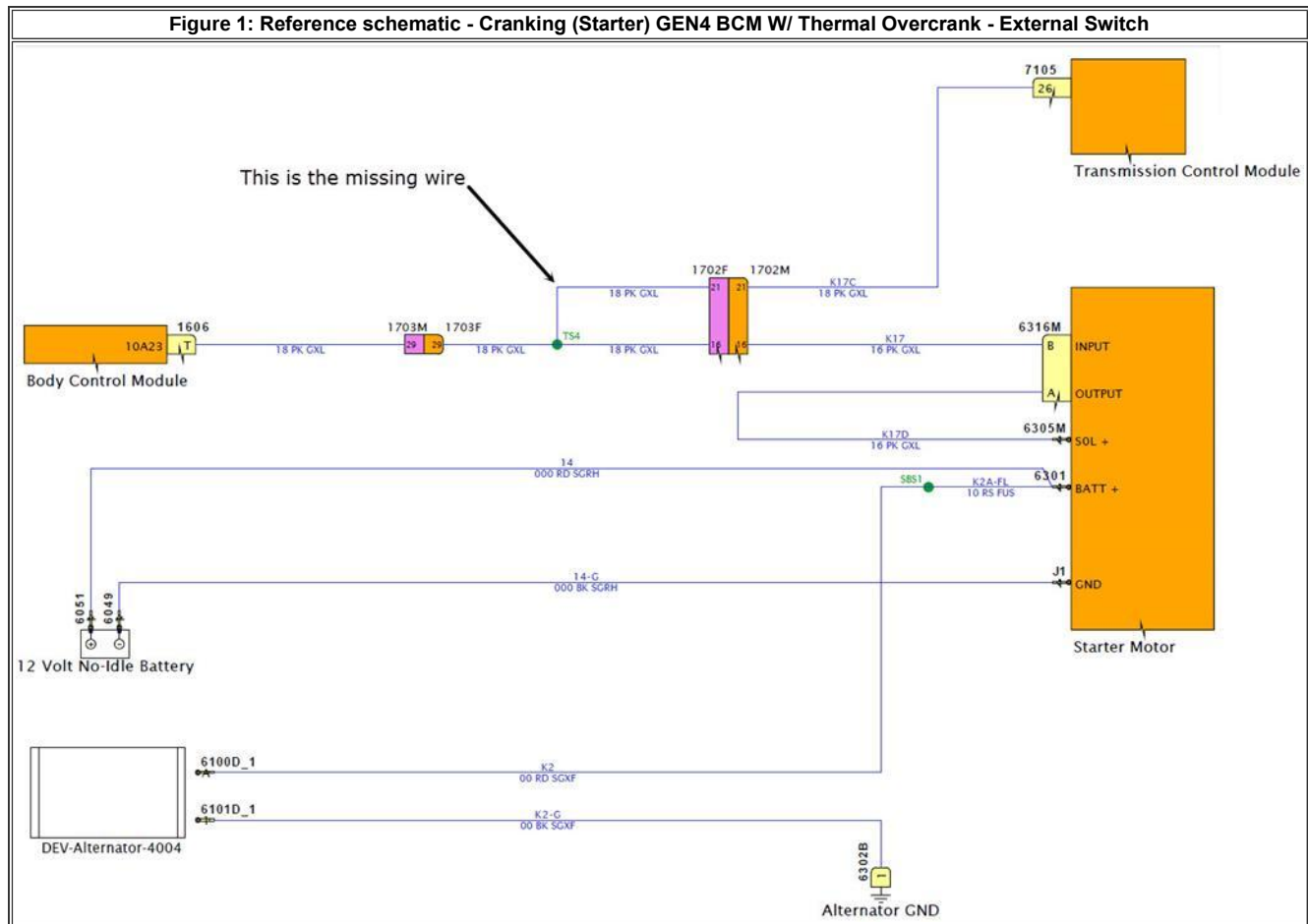
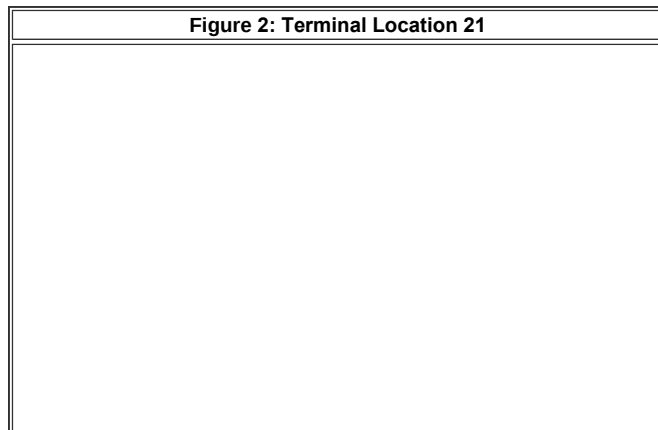
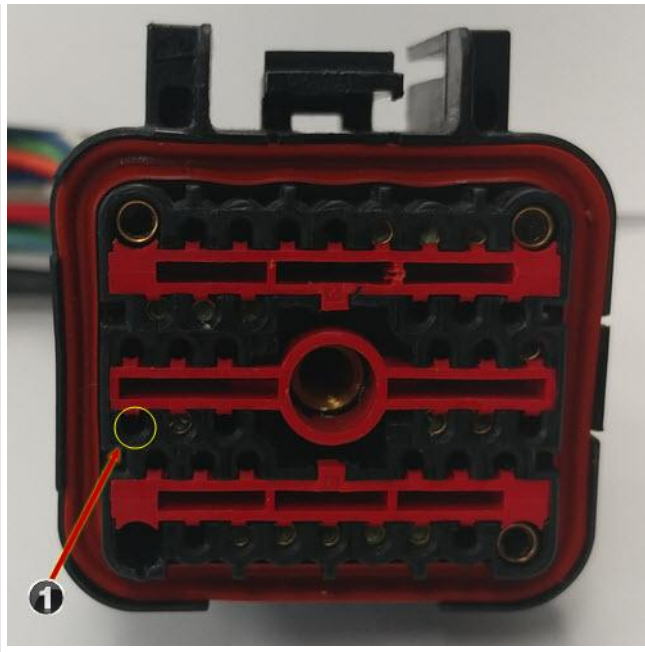


Figure 2: Terminal Location 21



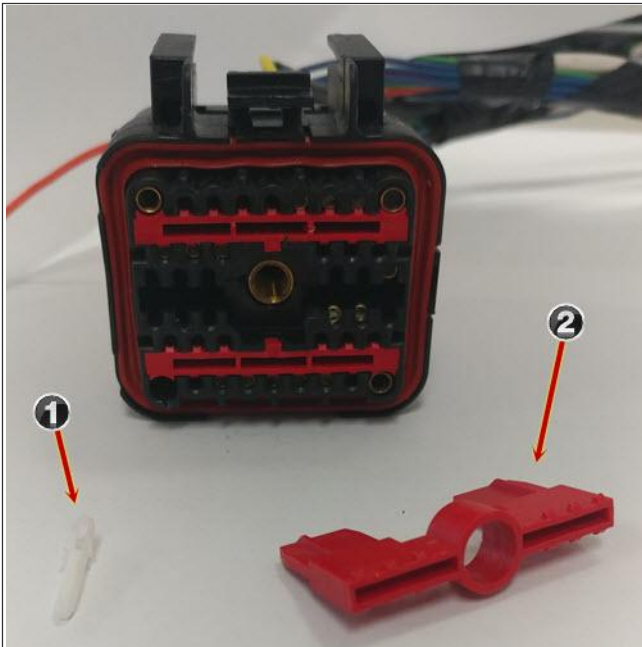


1. Terminal Location 21

Figure 3: Terminal Properly Crimped

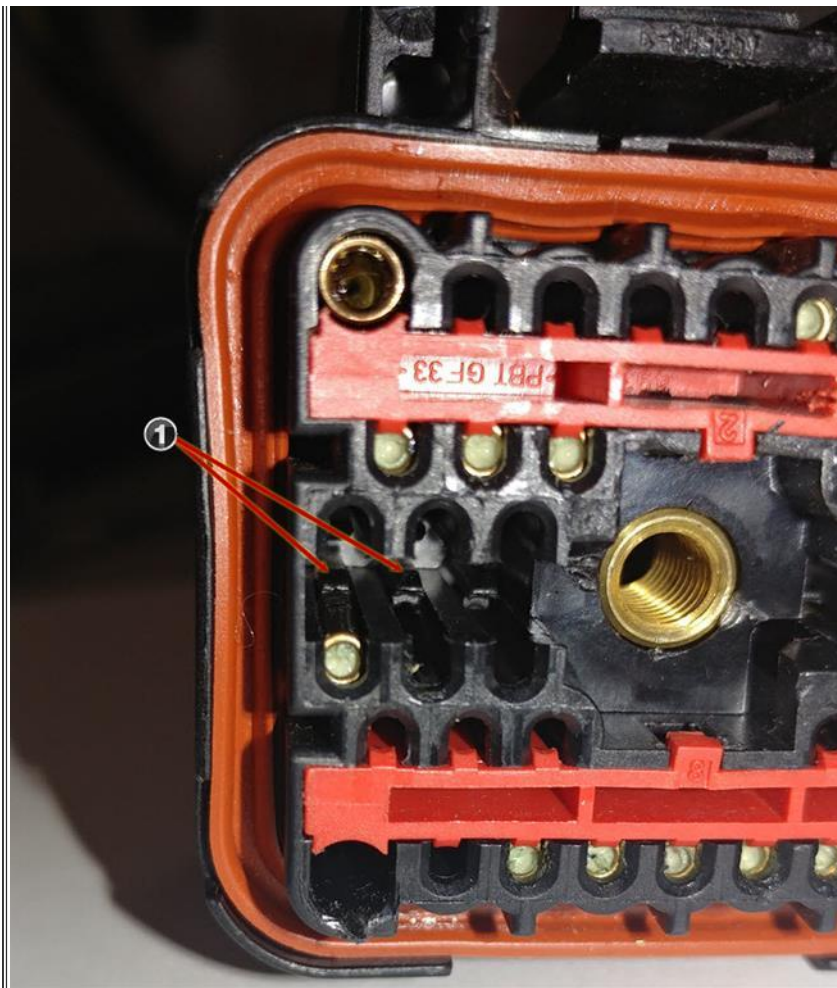


- Crimping tool ZTSE4181 or equivalent should be used to ensure a quality crimp is achieved

Figure 4: Terminal Plug and Body Lock Removed

1. Terminal Plug removed from Location 21
2. Body Lock removed so the new terminal can be installed
 - A pick can be used under the center of the Body Lock to pry upward to remove

Figure 5: Locking tabs inside connector body



1. Locking tab for the terminal. When inserting the terminal from the rear of the connector you must push forward until an audible click is heard. The click indicates the terminal is fully seated and locked. You should not be able to pull the terminal back out of the connector.

Figure 6: Terminal installation complete



1. Terminal fully installed, body lock had been re-installed

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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