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Major System: TRANSMISSION Created: 9/28/2017
Current Language: English Last Modified: 10/2/2019
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Coding Information

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Title: LT Fuller Advantage Series Transmission Power and Ground

Applies To: LT w/ A26 & X15

CHANGE LOG

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

10/02/2019 - Added alternative measuring units under torque specs
09/24/2019 - Updated the Note to refer to Service and Diagnostic manual as per Dealer Feedback
05/01/2019 - Updated PDM graphic
03/08/2019 - Added PDM torque specs
01/02/2018 - Added link to JK0800557

DESCRIPTION

This document will provide the user with Fuller Advantage Series (FAS) Automated Transmission power and ground circuit information.

NOTE:

This article is a supplement to [Fuller Advantage TRTS0980 \(FAS Troubleshooting Guide\)](#) for the purpose of clarifying power and ground sources

SYMPTOM(s)

Customer Observations or Concerns:

Check Transmission Light On

Possible DTC's

Eaton Fault Code	SPN - FMI	Description
33	168-4	Low Battery Voltage Supply
34	168-14	Weak Battery Voltage Supply
64	788-2, 7, 12	Electronic Clutch Actuator (ECA) - Voltage below normal or shorted low
66	520271 - 3&4	ECA Battery Voltage
96	No SPN Listed	ECA Battery Voltage Gen2 ECA

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A	N/A	N/A	N/A

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
N/A	N/A	N/A	N/A

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 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.

NOTE:

Refer to Service and Diagnostic Manual (0000885380) for PWR/GND Locations for A26 & X15 powered LTs

- Navigate to Electrical / Software tab, then click on 12 Volt System

Figure #1: Circuit Diagram (A26)

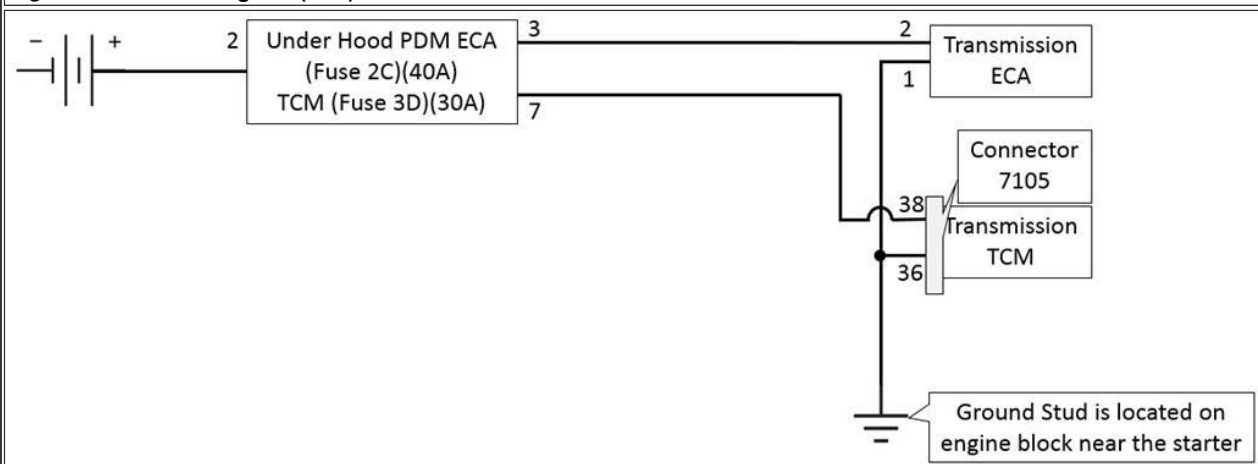


Figure #2: Under Hood PDM**Figure #2: Under Hood PDM****Note PDM Torque Specs:**

- M5 MIDIFUSE Tightening Torque 4.5 +/- 0.5 Nm (40 +/- 4 in•lb)
- M8 Torque 15 +/- 1.5 Nm (11 +/- 1 ft•lb)
- M10 Chassis / Feed Torque 28.5 +/- 1.5 Nm (21 +/- 1 ft•lb)

Figure #3: Ground Stud on engine block (A26)

1. While performing Eaton diagnostic steps be sure to inspect the power and ground connections at the Underhood PDM and the Ground Stud located by the engine starter.
 2. Ensure the connections are clean (free of corrosion) and tight, Ground Stud Torque 43 N-m (31.7 ft-lb).
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REPAIR STEP(s)

1. Clean and tighten any loose connections.
 2. Clearly document in RO, with Road Ranger, and or Navistar tech service if loose connection was found.
 3. Clear DTC's in all modules.
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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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