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 Major System: TRANSMISSION Created: 6/5/2019
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 Other Languages: NONE Author: David Horner
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Coding Information

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Title: MV Cluster Transmission Gear Monitor displays "--"

Applies To: Allison 2000 Series Transmission

CHANGE LOG

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

06/10/2019 - Updated 'Special Tools / Software'	
06/07/2019 - Initial Article Release	

DESCRIPTION

This document will guide the user through repair direction to configure Transmission Control Module (TCM) to provide the correct transmission gear range monitor value to the Premium or Base Electronic Gauge Cluster (EGC).

Navistar has identified an incorrect TCM parameter configuration that was configured during vehicle end of line programming which causes transmission gear range monitor to display dashes "--" (*Figure 1*) instead of transmission current range / gear (*Figure 2*). International dealers who are authorized by Allison for TCM reprogramming may complete the repair below. International dealers not authorized by Allison for TCM reprogramming must transfer the repair to an authorized Allison facility to configure the TCM to allow the EGC to monitor transmission current range via J1939.

[Click Here](#) to locate the nearest authorized Allison TCM reprogramming facility by following the on screen directions.

NOTE: The repair below only applies to MV vehicles built 3/28/2017 - 11/12/2018 equipped with Allison 2000 series transmission.



Figure 1: EGC Transmission Gear Monitor (MON) displaying dashes "--" for transmission range / gear





SYMPTOM(s)

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

DTC/Light	Description
Not Applicable	

Customer Observations or Concerns:

- Transmission Gear Range Monitor displays dashes (*Figure 1*) instead of current transmission gear range (*Figure 2*)

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Allison TCM Reflash			Reprogramming

SERVICE PARTS INFORMATION

Description	Part Number	Quantity Required	Notes
Not Applicable			

DIAGNOSTIC STEP(s)

Not Applicable

REPAIR STEP(s)

PROCEDURE WHEN NOT ALLISON REPROGRAMMING CERTIFIED:

1. Bring vehicle into shop and park on a flat surface
2. Shift transmission into park or neutral, set parking brake, and install wheel chocks
3. Loosen TCM harness jack screw, remove connector from TCM
4. Remove TCM mounting bolts
5. Locate & transfer TCM to authorized Allison TCM reprogramming location
6. Configure TCM parameter; J1939 Broadcast: ETC2 Range Parameter Format (30210), from 4th Gen Compatible (0), to 5th Gen Format (1)
7. Install TCM mounting bolts
8. Install 80 Way harness connector
9. Tighten 8mm hex head jack screw to 2.0 - 3.2 Nm (18-28 LB-IN)
10. Remove wheel chocks
11. Return vehicle to service

PROCEDURE WHEN ALLISON REPROGRAMMING CERTIFIED:

1. Bring vehicle into shop and park on a flat surface
2. Shift transmission into park or neutral, set parking brake, and install wheel chocks
3. Configure TCM parameter J1939 Broadcast: ETC2 Range Parameter Format (30210) from 4th Gen Compatible (0), to 5th Gen Format (1)
4. Remove wheel chocks
5. Return vehicle to service

WARRANTY INFORMATION

Warranty Claim Coding:

- Major Group - Transmission (13)
- Group - Auto Transmission (13908)
- Noun - Re-Program Transmission Parameters (810)

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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