

TT8532EN
November 20, 2019
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SUBJECT: Incorrect ETC2 Range Parameter Format Setting in Navistar Vehicles

MODELS AFFECTED: Navistar Vehicles with 1000, 2000, and 3000 Series Transmissions with 5th Generation Controls



NOTE: This issue is the responsibility of the OEM, and as such will not be repaired under Allison Transmission, Inc. product Warranty, Partner Coverage, or ETC Coverage.

Description of Complaint:

The transmission gear range monitor displays dashes instead of the current transmission range.

Background:

Navistar has supplied an incorrect calibration setting for parameter 30210: J1939 Broadcast: ETC2 Range Parameter Format in MV chassis built between 3/28/2017 and 11/12/2018. This incorrect calibration setting will cause the transmission gear range monitor to display dashes instead of the current transmission range. Parameter 30210: J1939 Broadcast: ETC2 Range Parameter Format was incorrectly set to 4th Gen Compatible [0]. The correct value for this parameter in these chassis is 5th Gen Format [1]. This Tech Tip is to support Navistar's iKNow document ID IK1300176.

Service Procedure:

1. Per Navistar iKNow document ID IK1033176, if the servicing Navistar dealer does not have TCM reprogramming capability, the TCM will be removed from the vehicle and transferred to the Allison service channel. Do not proceed with repair unless requested by Navistar.
2. Using Allison TCM Reflash™, enter the TCM Serial Number into the 5th Generation Controls database. Load the calibration into the TCM. The system will correct the calibration setting in TCMs associated with the vehicles that have been included in the Navistar notification.
3. If internet access was not available during the previous step, log onto Allison TCM Reflash™ as soon as internet access is available. Go to the File menu and select Upload Logs to return verification (VER) file(s) to the Allison database. This will allow confirmation of the new settings and ensure that future service events will use the proper settings.
4. Wait at least 20 minutes before proceeding to Step 5. This will ensure adequate time for system processing of the returned verification (VER) file(s).
5. Verify that parameter 30210: J1939 Broadcast: ETC2 Range Parameter Format is set to 5th Gen Format [1] on the calibration summary report in ACCT on the HUB.
 - a. Choose Summary Report from the ACCT main page on the HUB. Refer to [Figure 1](#).

- b. Enter the TCM serial number in the Search Value field, wait for As of Date field to populate, and click Generate HTML. Refer to [Figure 2](#).
- c. Verify that parameter 30210: J1939 Broadcast: ETC2 Range Parameter Format is set to 5th Gen Format [1] in the Basic section of the calibration summary report. Refer to [Figure 3](#).
- d. If parameter 30210: J1939 Broadcast: ETC2 Range Parameter Format is set to 5th Gen Format [1], proceed to step 7.

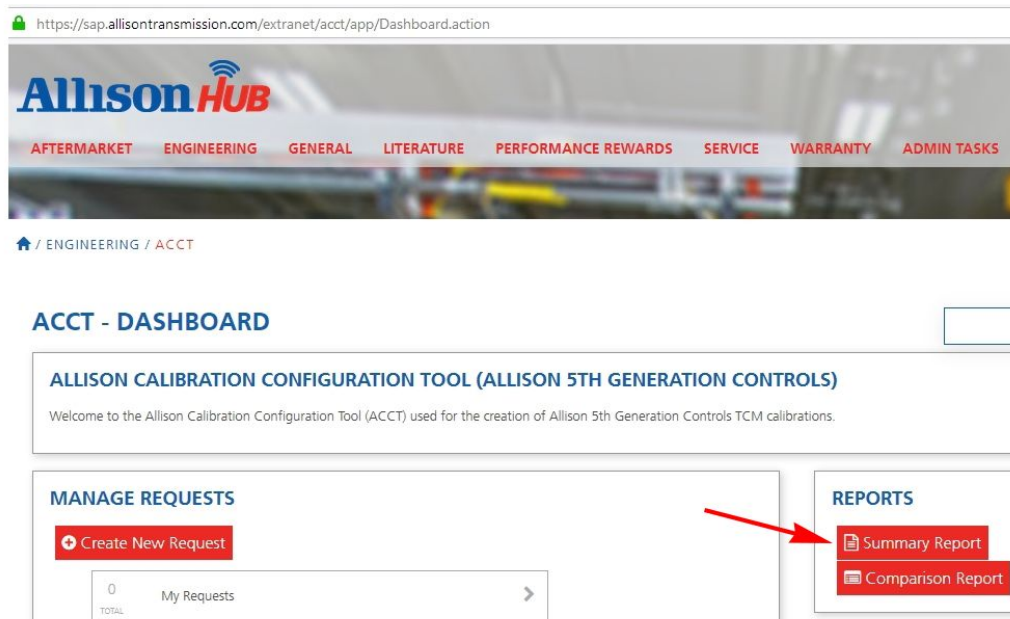


Figure 1. ACCT Main Page

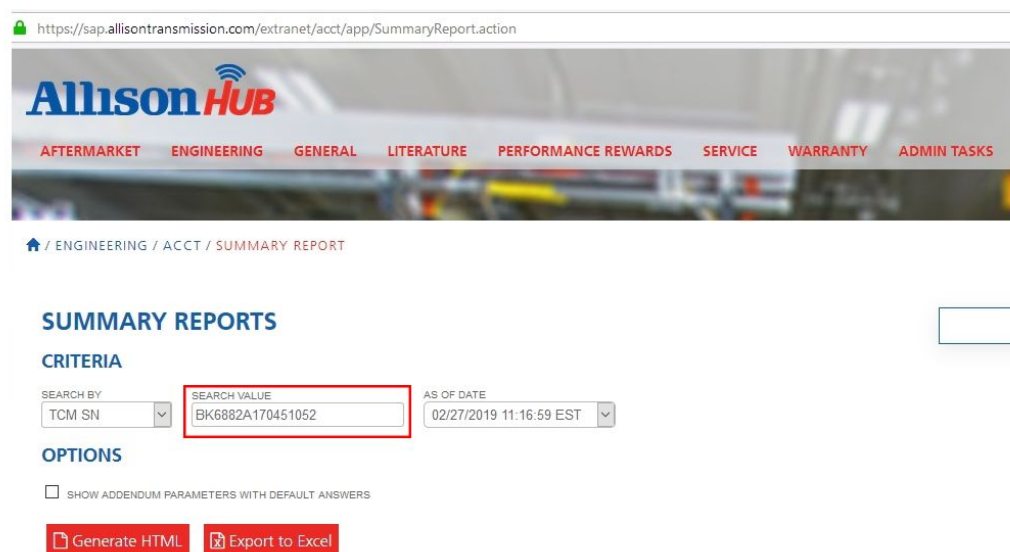


Figure 2. Summary Report Generation

Basic	
Parameter	Setting
VOCATIONAL USAGE [10010]	340000 RECREATIONAL [11]
VOCATIONAL RATING [10020]	MOTORHOME (MH) [8]
ENGINE MAKE AND MODEL [11020]	CUMMINS ISL 2013 AND L9 2017 [23]
NUMBER OF ENGINE CYLINDERS [11000]	OTHER [1]
TORQUE CONVERTER [14000]	421 [26]
ENGINE GOVERNED SPEED [11030]	2200 [14]
SPEEDOMETER PULSES PER REV [13000]	16-3000/4000 AND TC10 DOMESTIC [1]
THROTTLE AND LOAD SOURCE [18000]	PRIMARY ON-VEHICLE PROTOCOL [2]
ON-VEHICLE PROTOCOL: CAN1 [18010]	SAE J1939 - FULL FUNCTIONALITY [2]
ON-VEHICLE PROTOCOL: CAN2 [18020]	SAE J1939 - LIMITED FUNCTIONALITY [1]
NETWORK SPEED: CAN1 [18040]	500 KBPS WITH 81% (J1939) SAMPLE POINT [3]
NETWORK SPEED: CAN2 [18050]	500 KBPS WITH 81% (J1939) SAMPLE POINT [3]
NETWORK SPEED: CAN3 [18060]	500 KBPS WITH 75% SAMPLE POINT [2]
DIAGNOSTICS: Protocol [18070]	UDS WITH SAE J2012 DTC FORMAT [1]
DIAGNOSTICS: J1939-73 Connection [18080]	CAN1 [0]
PRIMARY MODE: Gears [17000]	116 - LOW START HIGH [23]
PRIMARY MODE: Shift Schedule [17010]	S1 PERFORMANCE [12]
PRIMARY MODE: Shift Speed [17020]	2100 [13]
SECONDARY MODE: Gears [17030]	116 - LOW START HIGH [23]
SECONDARY MODE: Starting Range Override [17040]	NA [11]
SECONDARY MODE: Shift Schedule [17050]	S3 ECONOMY [14]
SECONDARY MODE: Shift Speed [17060]	2000 [12]
TAILORED SHIFT SPEEDS: Kickdown [17080]	2200 [14]
TAILORED SHIFT SPEEDS: Primary ABP [17090]	2200 [14]
TAILORED SHIFT SPEEDS: Secondary ABP [17100]	2200 [14]
TAILORED SHIFT SPEEDS: ABP3 [17110]	2200 [14]
TAILORED SHIFT SPEEDS: Hold Override [17120]	2200 [14]
PRESELECTS: Strategy [17130]	STANDARD [1]
SHIFT SELECTOR 1 [19000]	ALLISON J1939-BASED LEVER OR PUSHBUTTON WITH BUILT-IN DISPLAY [1]
SHIFT SELECTOR 1: Dimming Input [19030]	254
SHIFT SELECTOR 2 [19010]	NONE [0]
SHIFT SELECTORS: J1939-Based Selector Connection [19020]	CAN2 [1]
SHIFT SELECTORS: J1939 Proprietary Interface [19100]	5TH GEN FORMAT [1]
J1939 BROADCAST: ETC2 Range Parameter Format [30210]	5TH GEN FORMAT [1]

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Figure 3. Summary Report Verification

6. If parameter 30210: J1939 Broadcast: ETC2 Range Parameter Format is set to 4th Gen Compatible [0], then a new calibration will be required to correct the issue. Submit a change request in ACCT or send the TCM serial number and a description of the issue to calibration_support@allisontransmission.com. Use the title "Navistar 30210 Change". A Calibration Support Service Engineer will provide a Road Ready assembly number with the correct setting.
 - a. Using Allison TCM Reflash™, enter the new Road Ready assembly number as the TCM assembly number in the 5th Generation Controls database. Load the calibration into the TCM.
 - b. Repeat Steps 3 through 5.
7. Service Procedure is complete.