Allison Transmission

2022FA01
March 10, 2022

SUBJECT: H 40/50 EP™ Transmission Control Module (TCM) Recalibration

MODELS AFFECTED: H 40/50 EP with G212N Software

Introduction:

Allison Transmission has identified a potential concern limited to H 40/50 EP systems operating with G212N software. The concern prevents H 40/50 EP system faults from setting in the TCM when the DPIM2 sends any active faults via Diagnostic Message 1 (DM1) to the TCM. This Field Action has been initiated to recalibrate the TCM in specific vehicles to address this issue. Refer to the following instructions to identify affected vehicles and submit proper warranty claims.

Table 1. Affected Transmission Product Code, Model and Vocation

Product Code	Affected Transmission Model	Affected Vocation
71	H 40/50 EP	Model Year 2021, G212N

Allison Service Outlets Field Action Responsibility:

1. Contact customers within your Area of Responsibility identified in Table 5 Affected Vehicles. To minimize disruption to the customer, organize recalibration activity to occur on numerous buses available at the same time.
2. For each vehicle, verify the Vehicle Identification Number (VIN) is listed in Table 5.
3. Connect to the TCM with **Allison DOC®**. From the **Allison DOC DTC and General Info** window, check that the existing System ID (SID) in the **System ID** field (refer to Figure 1) is included in Table 4 Affected SIDs. If the existing SID is not in Table 4, the vehicle is not affected.
4. From the Reports menu, select Diagnostic Reports. Fill in the details and print out the basic report. Include the report in the **4WARD™** warranty claim (refer to Figure 2).
5. Using Allison TCM Reflash™, reprogram the entire vehicle with the latest TCM Assembly Number by entering the TCM Assembly number into the TCM Assembly Number field in the Add Calibration to Download Information screen. The TCM Assembly number is "HEV" followed by the 3rd through 7th characters from the complete SID existing in the TCM. For example, SID: 6KA8003003F is TCM Assembly Number HEVA8003 (refer to Figure 3 and Figure 4).
6. When complete, cycle the vehicle ignition off and wait 30 seconds before turning back on. Verify the SID displayed in the **Allison DOC DTC and General Info** window has updated.
7. Verify there are no Diagnostic Trouble Codes (DTCs) set and return the vehicle to the customer.

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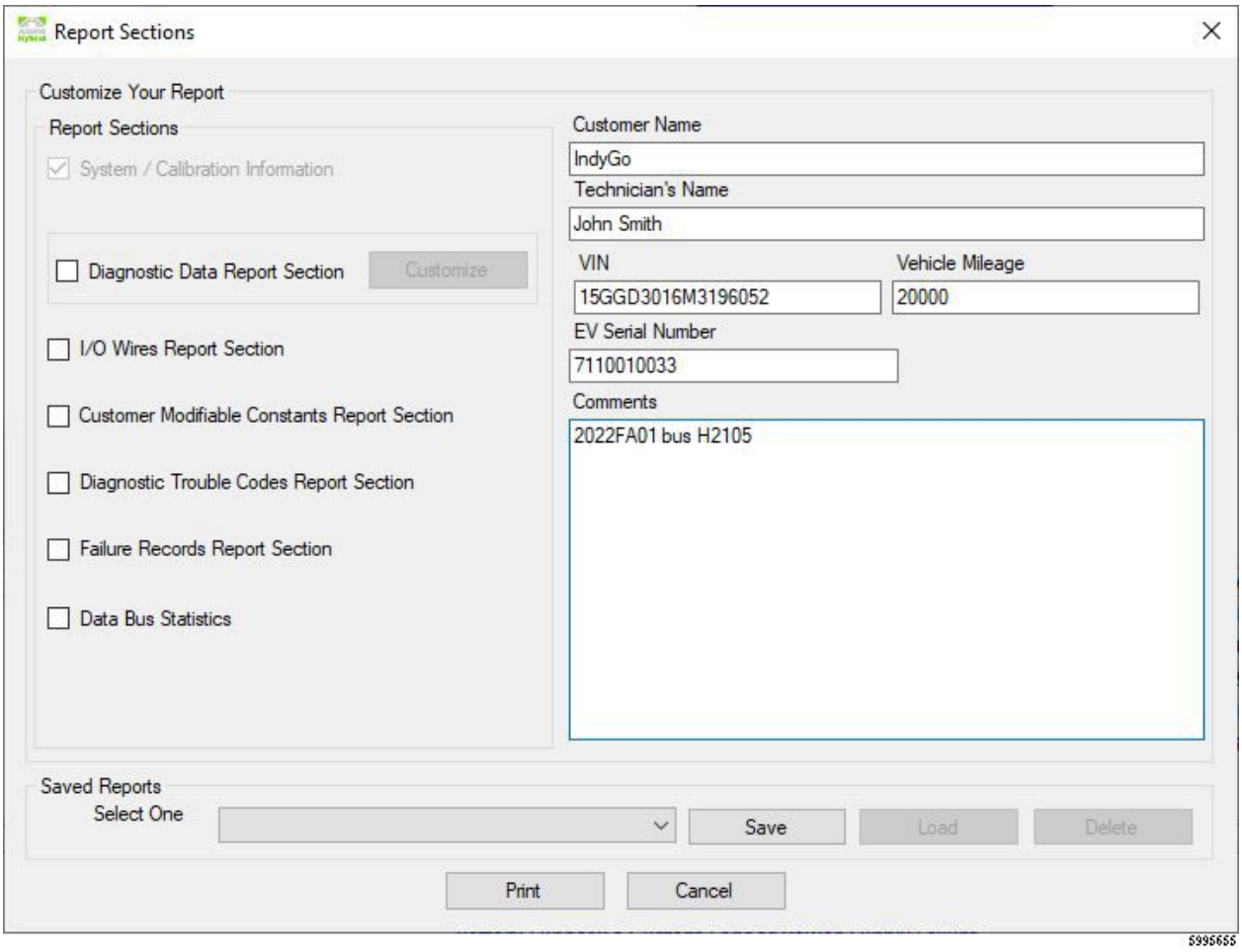
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Diagnostic Data	Value	Units
Energy Storage Pack Temperature	133	°F
Sump Oil Temperature	93	°F
Oil Level	2	inches
TCM Ignition (Wire# 363)	11.2	V
System ID	6KA8003003F	

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Figure 1. System ID, Software Level (6KA8003003F, Assembly HEVA8003 Shown)



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Figure 2. Report Section

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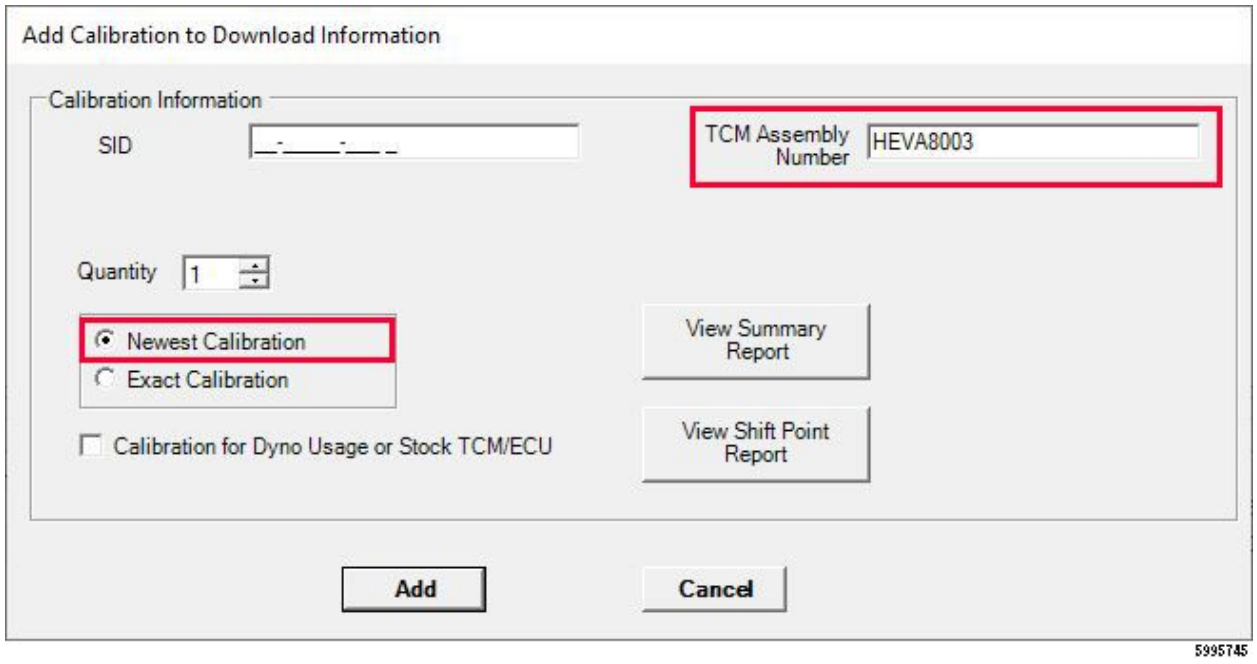


Figure 3. Add TCM Assembly Number to Get Newest Calibration



Figure 4. Updated SID 6KA8004004G

Claim Submittal Information:

Approved Allison Authorized service outlets must submit work performed per this Field Action as outlined in Table 2, Table 3, Table 4 and Table 5. When filing each claim, enter the recalibrated TCM's original SID, found in the printed Report in Step 4, into the Failed Component Serial Number field of the **4WARD** claim. **All work and claims must be submitted by March 1, 2023.**

Table 2. Claim Information

CLAIM TYPE	CT04
PRIMARY FAILED PART	400
PRIMARY FAILED PART SERIAL NUMBER	Enter the TCM's original SID
SPECIAL ACTIVITY INDICATOR	2022FA01
COMPLAINT CODE	AT03
FAILURE CODE	CC01

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Table 3. Labor Codes/Hours – Recalibration Only

LABOR OPERATION CODE	LABOR HOURS	LABOR OPERATIONS
00096501	0.5	RECALIBRATE TCM

Table 4. Affected SIDs

Affected SID	Updated SID	TCM Assembly #
6KA8001005F	6KA8001006G	HEVA8001
6KA8003003F	6KA8003004G	HEVA8003
6KA8004001E	6KA8004002F	HEVA8004
6KA8005001F	6KA8005002G	HEVA8005
6KA8006001G	6KA8006002H	HEVA8006
6KA8007001H	6KA8007002J	HEVA8007
6KA8008001J	6KA8008002K	HEVA8008
6KA8009001K	6KA8009002L	HEVA8009
6KA800A001L	6KA800A002M	HEVA800A

Any additional parts, labor or travel costs deemed necessary to complete this Field Action must be described in detail in the claim narrative; if not, they will be deducted from the warranty claim. Allison Authorized service outlets must follow the published Allison Transmission current labor time guide for work performed when adding any additional charges.

Contact Information:

If there are questions concerning this Proactive Field Action, please contact:

Allison Transmission, Inc.
P.O. Box 894
Indianapolis, IN 46206 0894
TOLL FREE: 1-800-252-5283
Allison.TAC@allisontransmission.com

Table 5. Affected Vehicles

Customer	OEM	VIN	Location	Drive Unit S/N	Bus #
ART	Gillig	XXXXXXXXXXXX93884	Asheville, NC	7110010092	unknown
ART	Gillig	XXXXXXXXXXXX93883	Asheville, NC	7110010093	unknown
B Metro	Gillig	XXXXXXXXXXX195748	Brownsville, TX	7110010158	unknown
DPTS	Gillig	XXXXXXXXXXXX94110	Decatur, IL	7110010135	unknown
IndyGo	Gillig	XXXXXXXXXXX196054	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196054	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196048	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196055	Indianapolis, IN	unknown	H21XX

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Table 5. Affected Vehicles *(cont'd)*

Customer	OEM	VIN	Location	Drive Unit S/N	Bus #
IndyGo	Gillig	XXXXXXXXXXX196056	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX194049	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196050	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196051	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196059	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196060	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196061	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	15GGD3016M3196052	Indianapolis, IN	7110010033	H2105
IndyGo	Gillig	unknown	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196062	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196064	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196065	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	15GGD3015M3196057	Indianapolis, IN	7110010031	H2110
IndyGo	Gillig	XXXXXXXXXXX196066	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	15GGD3017M3196058	Indianapolis, IN	7110010042	H2111
IndyGo	Gillig	XXXXXXXXXXX196067	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196069	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196068	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196070	Indianapolis, IN	unknown	H21XX
IndyGo	Gillig	XXXXXXXXXXX196071	Indianapolis, IN	unknown	H21XX
KAT	Gillig	XXXXXXXXXXXX94187	Knoxville, TN	unknown	unknown
KAT	Gillig	unknown	Knoxville, TN	unknown	unknown
KAT	Gillig	XXXXXXXXXXXX94186	Knoxville, TN	unknown	unknown
KAT	Gillig	XXXXXXXXXXXX94188	Knoxville, TN	unknown	unknown
KAT	Gillig	XXXXXXXXXXXX94190	Knoxville, TN	unknown	unknown
KAT	Gillig	XXXXXXXXXXXX94189	Knoxville, TN	unknown	unknown
Lake Erie Transit	Gillig	XXXXXXXXXXXX94140	Monroe, MI	7110010134	unknown
Lake Erie Transit	Gillig	XXXXXXXXXXXX94141	Monroe, MI	7110010132	unknown
Lake Erie Transit	Gillig	XXXXXXXXXXXX94142	Monroe, MI	7110010133	unknown
NYCTA	New Flyer	5FYH8FR05MB074705	New York, NY	unknown	9516
NYCTA	New Flyer	5FYH8FR0XMB074702	New York, NY	unknown	9513
NYCTA	New Flyer	5FYH8FR01MB074703	New York, NY	unknown	9514
NYCTA	New Flyer	5FYH8FR09MB074707	New York, NY	unknown	9518
NYCTA	New Flyer	5FYH8FR00MB074711	New York, NY	unknown	9522
NYCTA	New Flyer	5FYH8FR02MB074709	New York, NY	unknown	9520

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Table 5. Affected Vehicles *(cont'd)*

Customer	OEM	VIN	Location	Drive Unit S/N	Bus #
NYCTA	New Flyer	5FYH8FR01MB074717	New York, NY	unknown	9528
NYCTA	New Flyer	5FYH8FR02MB074712	New York, NY	unknown	9523
NYCTA	New Flyer	5FYH8FR06MB074714	New York, NY	unknown	9525
NYCTA	New Flyer	5FYH8FR05MB074719	New York, NY	unknown	9530
NYCTA	New Flyer	5FYH8FR03MB074699	New York, NY	unknown	9510
NYCTA	New Flyer	5FYH8FR01MB074720	New York, NY	unknown	9531
NYCTA	New Flyer	5FYH8FR0XMB074716	New York, NY	unknown	9527
NYCTA	New Flyer	5FYH8FR07MB074723	New York, NY	unknown	9534
NYCTA	New Flyer	5FYH8FR05MB074722	New York, NY	unknown	9533
NYCTA	New Flyer	5FYH8FR09MB074724	New York, NY	unknown	9535
NYCTA	New Flyer	5FYH8FR00MB074725	New York, NY	unknown	9536
NYCTA	New Flyer	5FYH8FR09MB074710	New York, NY	unknown	9521
NYCTA	New Flyer	5FYH8FR03MB074721	New York, NY	unknown	9532
NYCTA	New Flyer	5FYH8FR00MB074708	New York, NY	unknown	9519
NYCTA	New Flyer	5FYH8FR04MB074727	New York, NY	unknown	9538
NYCTA	New Flyer	5FYH8FR04MB074730	New York, NY	unknown	9541
NYCTA	New Flyer	5FYH8FR02MB074726	New York, NY	unknown	9537
NYCTA	New Flyer	5FYH8FR0XMB074733	New York, NY	unknown	9544
NYCTA	New Flyer	5FYH8FR08MB074732	New York, NY	unknown	9543
NYCTA	New Flyer	5FYH8FR08MB074729	New York, NY	unknown	9540
NYCTA	New Flyer	5FYH8FR03MB074704	New York, NY	unknown	9515
NYCTA	New Flyer	5FYH8FR06MB074728	New York, NY	unknown	9539
NYCTA	New Flyer	5FYH8FR0_MB074701	New York, NY	unknown	9512
NYCTA	New Flyer	5FYH8FR06MB074731	New York, NY	unknown	9542
NYCTA	New Flyer	5FYH8FR07MB074737	New York, NY	unknown	9548
NYCTA	New Flyer	5FYH8FR03MB074735	New York, NY	unknown	9546
NYCTA	New Flyer	5FYH8FR05MB074736	New York, NY	unknown	9547
NYCTA	New Flyer	5FYH8FR09MB074738	New York, NY	unknown	9549
NYCTA	New Flyer	5FYH8FR01MB074734	New York, NY	unknown	9545
NYCTA	New Flyer	5FYH8FR04MB074713	New York, NY	unknown	9524
NYCTA	New Flyer	5FYH8FR07MB074740	New York, NY	unknown	9551
NYCTA	New Flyer	5FYH8FR08MB074715	New York, NY	unknown	9526
NYCTA	New Flyer	5FYH8FR02MB074743	New York, NY	unknown	9554
NYCTA	New Flyer	5FYH8FR00MB074742	New York, NY	unknown	9553
NYCTA	New Flyer	5FYH8FR0_MB074741	New York, NY	unknown	9552

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Table 5. Affected Vehicles *(cont'd)*

Customer	OEM	VIN	Location	Drive Unit S/N	Bus #
NYCTA	New Flyer	5FYH8FR04MB074744	New York, NY	unknown	9555
NYCTA	New Flyer	5FYH8FR00MB074739	New York, NY	unknown	9550
NYCTA	New Flyer	5FYH8FR06MB074700	New York, NY	unknown	9511
NYCTA	New Flyer	5FYH8FR08MB074746	New York, NY	7110010112	9557
NYCTA	New Flyer	5FYH8FR06MB074745	New York, NY	unknown	9556
NYCTA	New Flyer	5FYH8FR0XMB074747	New York, NY	unknown	9558
NYCTA	New Flyer	5FYH8FR0_MB074748	New York, NY	unknown	9559
NYCTA	New Flyer	5FYH8FR03MB074718	New York, NY	unknown	9529
NYCTA	New Flyer	5FYH8FRO7MB074706	New York, NY	7110010101	9517
SFMTA	El Dorado	1N9MLAE33NC084001	San Francisco, CA	7110010126	unknown
Silver Rider	New Flyer	5FYH8FR07MF076044	Laughlin, NV	7110010069	979
Silver Rider	New Flyer	5FYH8KR06MF076027	Laughlin, NV	7110010072	980
WSTA	New Flyer	5FYH8KR09MF076023	Winston-Salem, NC	7110010063	1186
WSTA	New Flyer	5FYH8KR00MF076024	Winston-Salem, NC	7110010062	1187
WSTA	New Flyer	5FYH8KR07MF076022	Winston-Salem, NC	7110010054	unknown
WSTA	New Flyer	5FYH8FR00MF076046	Winston-Salem, NC	7110010039	unknown
WSTA	New Flyer	5FYH8KR02MF076025	Winston-Salem, NC	7110010064	1188
WSTA	New Flyer	5FYH8KR05MF076021	Winston-Salem, NC	7110010046	1184
WSTA	New Flyer	5FYH8KR04MF076026	Winston-Salem, NC	7110010067	1189
WSTA	New Flyer	5FYH8KR03MF076020	Winston-Salem, NC	7110010047	1183

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