

REFERENCE:	Nova Bus Manuals
SECTION:	10: Transmission and Controls
RS N°:	MQR 7621-2666
EFFECTIVE IN PROD.:	2023OC
TC RECALL N°:	2023-387
NHTSA RECALL N°:	23V482

APPLICATION DEADLINES: N/A
CLAIM REFERENCE NUMBER: N/A

SUBJECT:	Transmission Allison
JUSTIFICATION:	Certain affected 40' vehicles may have an Allison transmission whose yoke can separate, which may lead to a sudden loss of drive and immobilization of the vehicle.

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Contact your authorized Allison Transmission Inc. dealer for the execution of the Field Action Letter 2023FA04 published by Allison Transmission Inc.	Allison	Allison	1h*
2	–	–	–	–

* Time indicated by Allison Transmission Inc.

MATERIAL REQUIRED PER VEHICLE

QTY	PART N°	REV.	DESCRIPTION
LEVEL 1			
1	N33666	–	Straps and Bolts Kit **
LEVEL 2			
–	–	–	–

** The parts will be supplied by Allison Transmission Inc. during the Field Action 2023FA04.

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED *	RETAINED	* Dispose of the unused parts and the defective parts in accordance with local environmental standards in effect.
	Yes	–	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2023OC26	Initial release	Annie St-Jacques

APPROVED BY:

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NQF705003 VERSION 5

Signature
numérique de Irina
Negoescu
Date : 2023.10.26
13:37:46 -04'00'

Irina
Negoescu

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Ann Arbor Area Transportation Authority Michigan - AAATA	LD05	2000	2000	L82J9L97776	L82J9L97776	1
Ann Arbor Area Transportation Authority Michigan - AAATA	LD09	2001	2007	L82J1M97778	L82J2M97778	7
Ann Arbor Area Transportation Authority Michigan - AAATA	LE73	2200	2207	L82JXN97785	L82J7N97785	8
Barrie - Ontario - Metrolinx	LD55	2101	2103	L82J2L97777	L82J6L97777	3
Barrie - Ontario - Metrolinx	LE18	2201	2203	L82J1M37533	L82J5M37533	3
Barrie - Ontario - Metrolinx	LE46	2204	2206	L82J7M37533	L82J5M37533	3
Barrie - Ontario - Metrolinx	LF04	2301	2303	L82J2P37538	L82J6P37538	3
Brampton - Ontario	LC23	1901	1907	L82J3K37518	L82J9K37518	7
Brampton - Ontario	LC54	1908	1916	L82J0K37518	L82JXK37518	9
Brampton - Ontario	LD18	2007	2024	L82J5L37526	L82J5L37526	18
Brampton - Ontario	LD99	2101	2108	L82J3M37531	L82J0M37531	8
Brampton - Ontario	LE42	2201	2224	L82J7N37534	L82J5N37534	24
Burlington - Ontario - Metrolinx	LC18	1901	1907	L82J9K37520	L82J0K37521	7
Burlington - Ontario - Metrolinx	LD86	2101	2108	L82J2M37530	L82J8M37530	8
Burlington - Ontario - Metrolinx	LE48	72201	72207	L82J8N37533	L82J9N37533	7
Burlington - Ontario - Metrolinx	LE94	7-2301	7-2305	L82J2P37538	L82JXP37538	5
Burlington - Ontario - Metrolinx	LF32	7-2306	7-2307	L82J9P37540	L82J9P37540	2
Cape Breton - Nova Scotia	LB92	7112	7113	L82J3K37517	L82J5K37517	2
Cape Breton - Nova Scotia	LC90	—	—	L82J1L37523	L82J1L37523	1
Cape Breton - Nova Scotia	LD22	N/A	N/A	L82J7L37526	L82J7L37526	1
Cape Breton - Nova Scotia	LD97	—	—	L82J9M37530	L82J9M37530	1
Cape Breton - Nova Scotia	LE10	—	—	L82J9M37532	L82J9M37532	1
Cape Breton - Nova Scotia	LE58	—	—	L82J7N37534	L82J7N37534	1
Cape Breton - Nova Scotia	LF34	—	—	L82J9P37539	L82J9P37539	1
Capital Area Transportation Authority Michigan - CATA	LC08	700	718	L82J7K97772	L82J8K97773	19
Capital Area Transportation Authority Michigan - CATA	LD34	719	730	L82J8L97777	L82J2L97777	12
Capital Area Transportation Authority Michigan - CATA	LE04	731	737	L82J2N97785	L82J8N97785	7
CHARM City Baltimore - Maryland	LC73	1910218	1910223	L82J4K97774	L82J8K97774	6
CHARM City Baltimore - Maryland	LD37	1910234	1910239	L82JXL97777	L82J3L97777	6
Cornwall - Ontario - Metrolinx	LD68	—	—	L82J3M37529	L82J2M37529	6
Demo - Altoona electric Bus - LFS-e+ (P9750)	LE01	—	—	L82J4M37529	L82J4M37529	1
Halifax - Nova Scotia	LD77	1335	1369	L82J0M37528	L82J7M37529	35
Halifax - Nova Scotia	LE08	1370	1406	L82J3M37532	L82J7M37532	37
Halifax - Nova Scotia	LE78	1407	1413	L82JXN37536	L82J9N37536	7
Hamilton - Ontario - Metrolinx	LE55	2101	2120	L82KXN37534	L82K6N37535	20
Hamilton - Ontario - Metrolinx	LE86	2201	2231	L82K3N37537	L82K3N37537	31
Hamilton - Ontario - Metrolinx	LF27	2251	2254	L82K4P37539	L82K4P37540	4
Hamilton - Ontario - Metrolinx	LF27	2258	2258	L82K4P37540	L82K4P37540	1
Houston Texas - Metro	LC55	2070	2079	L82KXK97773	L82K0K97773	10
Huntsville - Alabama	LF23	—	—	L82JXP97788	L82JXP97788	4

CLIENT	ORDER	ROAD NUMBER		VIN (2NVY/4RKY...)		QTY
		FROM	TO	FROM	TO	
Lethbridge - Alberta	LB95	193	198	L82J1K37518	L82J0K37518	6
Lethbridge - Alberta	LB96	199	T203	L82J1L37526	L82J3L37526	5
Mack Defense	LE68	—	—	L82J6N97784	L82J7N97785	4
Maryland Transit Administration - MTA - Maryland	LB82	20001	20001	L82J8K97772	L82J8K97772	1
Maryland Transit Administration - MTA - Maryland	LC27	20002	20030	L82JXL97776	L82J4L97776	29
Maryland Transit Administration - MTA - Maryland	LD82	21001	21070	L82J2M97779	L82J9M97781	70
Maryland Transit Administration - MTA - Maryland	LE53	22001	22070	L82JXN97785	L82J4N97786	70
North Bay - Ontario - Metrolinx	LC38	792	793	L82J3K37520	L82J7K37520	2
North Bay - Ontario - Metrolinx	LD52	794	794	L82J0L97777	L82J0L97777	1
North Bay - Ontario - Metrolinx	LE98	795	795	L82J1P37539	L82J1P37539	1
Oakville - Ontario	LB93	—	—	L82J3K37517	L82J5K37517	5
Oakville - Ontario	LC57	—	—	L82J6K37521	L82J5K37521	6
Oakville - Ontario	LD58	—	—	L82J7M37528	L82J2M37528	7
Peterborough - Ontario	LB20	7819	8019	L82J2K37519	L82J0K37519	3
Peterborough - Ontario - Metrolinx	LD72	—	—	L82J4M37529	L82J3M37529	6
Puerto Rico Highway and Transportation Authority – PRHTA	LF14	23-01	23-09	L82J0P97789	L82JXP97789	9
Regina - Saskatchewan	LE40	2201	2202	L82J3N37533	L82J5N37533	2
Rochester New York - RTS	LB76	1901	1901	L82J3K97770	L82J3K97770	1
Rochester New York - RTS	LB77	1902	1910	L82J4K97773	L82J3K97773	9
Rochester New York - RTS	LE92	2221	2247	L82J5N97786	L82J8N97786	27
Rochester New York - RTS	LF26	2301	2309	L82J3P97788	L82J2P97788	9
San Juan Puerto Rico	LC03	2019-01	2019-06	L82J9K97772	L82J8K97772	6
San Juan Puerto Rico	LD01	2020-01	2020-01	L82J0L97775	L82J0L97775	1
San Juan Puerto Rico	LD32	2021-01	2021-10	L82J5L97777	L82J6L97777	10
San Juan Puerto Rico	LE06	2021-11	2021-17	L82JXM97781	L82J5M97781	7
San Juan Puerto Rico	LE83	2022-01	2022-11	L82J0N97786	L82J3N97786	11
San Juan Puerto Rico – AMA	LF41	2022-12	2022-12	L82J8P97788	L82J8P97788	1
Sault Ste. Marie - Ontario	LC06	—	—	L82J3K37519	L82J5K37519	2
Sault Ste. Marie - Ontario - Metrolinx	LE56	—	—	L82J8N37534	L82J3N37534	3
St. Catharines - Ontario - Metrolinx	LC84	2040	2043	L82J6L97775	L82J1L97775	4
Strathcona County Transit - Alberta	LD20	2031	2035	L82J3L37527	L82J0L37527	5
Strathcona County Transit - Alberta	LE15	2034	2037	L82J2M37532	L82J9M37533	4
Sudbury - Ontario - Metrolinx	LD71	910	919	L82J8M37530	L82J9M37530	10
Sudbury - Ontario - Metrolinx	LE25	921	927	L82J1M37533	L82J7M37533	7
Sudbury - Ontario - Metrolinx	LF02	931	936	L82J8P37538	L82J7P37538	6
Thunder Bay - Ontario	LE47	239	240	L82J5N37533	L82J7N37533	2
Thunder Bay - Ontario	LE93	241	242	L82J9P37538	L82J0P37538	2
Welland - Ontario - Metrolinx	LC19	—	—	L82J2K37519	L82J4K37519	2
Welland - Ontario - Metrolinx	LC37	—	—	L82J6K37519	L82J8K37519	2
Welland - Ontario - Metrolinx	LC85	—	—	L82J0L97775	L82J0L97775	1
Welland - Ontario - Metrolinx	LE22	—	—	L82J7M37533	L82J9M37533	2
Welland - Ontario - Metrolinx	LE38	—	—	L82J0M37533	L82J0M37533	1

**NOTE**

The Field Action Letter 2023FA04 included in this document was published and transmitted to Nova Bus by Allison Transmission Inc. Nova Bus cannot be held responsible for its content.

PROCEDURE

Contact your Allison Transmission Inc. dealer for the Field Action Letter 2023FA04. ❖

ANNEX A



2023FA04
 October 18, 2023
 Product Code(s): 65
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IMPLEMENTATION DATE: October 3, 2023

SUBJECT: Output Shaft Yoke/Flange Retaining Bolt Torque Specification Increase

MODELS AFFECTED: B3400 R xFE™, B400 R

VOCATIONS AFFECTED: Transit Bus Application

SERIAL NUMBERS AFFECTED: S/N 6511606790 through S/N 6511980874
 Build date range 2019-2023

Introduction:

Allison Transmission has observed a potential concern that affects the output shaft yoke/flange retaining bolt P/N 29535219 on B3400 R xFE and B400 R transmissions operating in the Transit Bus Application. This may result in loss of torque on the bolt and a loss of clamp force. As a Customer Satisfaction Initiative, Allison will support increasing the output shaft yoke/flange retaining bolt torque specification to 130 N·m (95 lb ft) for B3400 R xFE and B400 R Series transmissions.



NOTE: The purpose of this Field Action is to provide proactive action to ensure this bolt is torqued to the proper specification for transit bus applications. Details of how to file claims, applicable labor operations and rates, required replacement parts and affected transmission serial numbers are outlined below. If there are questions concerning this correspondence, please contact your Allison Customer Support Manager.

Claim Submittal Information:

Allison Authorized Service Network must submit work performed under this Field Action using the 4WARD parameters outlined in [Table 1](#) and [Table 2](#).

Table 1. Claim Information

CLAIM TYPE	04
SPECIAL ACTIVITY INDICATOR	2023FA04
FIELD ACTION AUTHORIZATION NUMBER	(Include in claim narrative)

4WARD Claim Narrative must include the Field Action Authorization Number obtained from the Allison HUB™ prior to performing the campaign.

KH / FA9129EN

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Table 2. Labor Codes/Hours

LABOR OPERATION CODE	LABOR HOURS	LABOR OPERATIONS
00094017	0.8	R & R Driveline
00096905	0.2	2023FA04 Yoke Bolt Torque

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

Procedure:

1. Lift bus to access driveline and transmission output bolt, following appropriate safety procedures and guidelines.
2. Disconnect driveline from transmission output yoke.



NOTE: Do not disconnect from the drive axle (differential) end of drive shaft.

3. After disconnecting driveline from transmission output yoke, secure transmission end of drive shaft away from output yoke. U-joint straps and bolts CANNOT be reused and must be discarded, and replaced with new hardware kit.
4. Using a pry bar or yoke holding fixture, secure the yoke so it will not rotate.
 - Make sure not to damage yoke u-joint cavity or other machined surfaces (refer to [Figure 1](#)).



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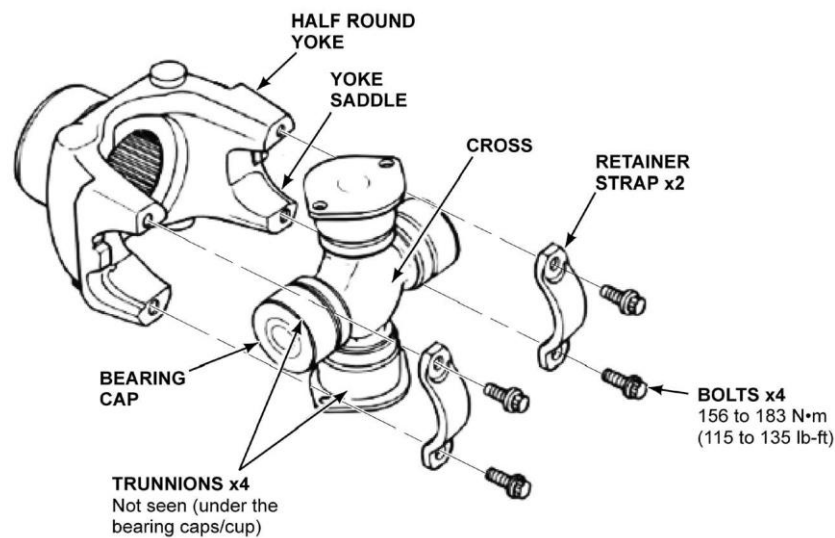
Figure 1.

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5. **Torque output shaft yoke/flange retaining bolt P/N 29535219 to new specification; 130 N·m (95 lb ft).**
6. Clean original paint mark and reapply paint mark to the output retaining plate and output yoke bolt with one continuous mark.
7. Reinstall driveline and secure u-joint to transmission output yoke with new straps and bolts from hardware kit.
 - Follow manufacturer's torque procedure and specifications. Refer to [Figure 2](#).
 - Prior to lowering bus from lift, mark transmission nameplate with paint pen to indicate output shaft yoke/flange retaining bolt torque has been verified.



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Figure 2.

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