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Coding Information

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Title: Next Gen Bus Allison 2500 Transmission Yoke Bolt Torque

Applies To: Next Gen Bus with Allison 2500 Transmission

CHANGE LOG

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

03/26/2025 - Initial Article Release

DESCRIPTION

Transmission output yoke retaining bolt repair procedure.

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):
Not Applicable

DTC/Light	Description
N/A	

Customer Observations or Concerns:

- Visual observation of ATF leaking from the rear of the transmission.
- Visual observation of the output yoke bolt loose between the yoke and u-joint.

SPECIAL TOOL(s) / SOFTWARE

- Suitable lifting device

Tool Description	Tool Number	Comments	Instructions
	Not Applicable		

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SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
STRAP KIT, U-JOINT, DRIVE SHAFT	1685128C91	1	
FLANGE, DRIVE SHAFT, END YOKE	2607599C91	1	Replace only if component is damaged.
Allison Transmission Flange Bolt	29536847	1	Replace only if component is damaged.
Allison Transmission Yoke Seal Ring Washer	29536848	1	Replace only if component is damaged.
Allison Transmission Rear Cover Oil Seal	29536379	1	Replace only if component is damaged.

DIAGNOSTIC STEP(s)

- Not Applicable

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.

REPAIR STEP(s)

REMOVAL PROCEDURE:

1. Remove and discard four bearing strap bolts and two straps from the transmission yoke.

2. Using a suitable lifting device, remove the drive shaft yoke (2) from the transmission yoke (6) and lower the driveshaft (3).

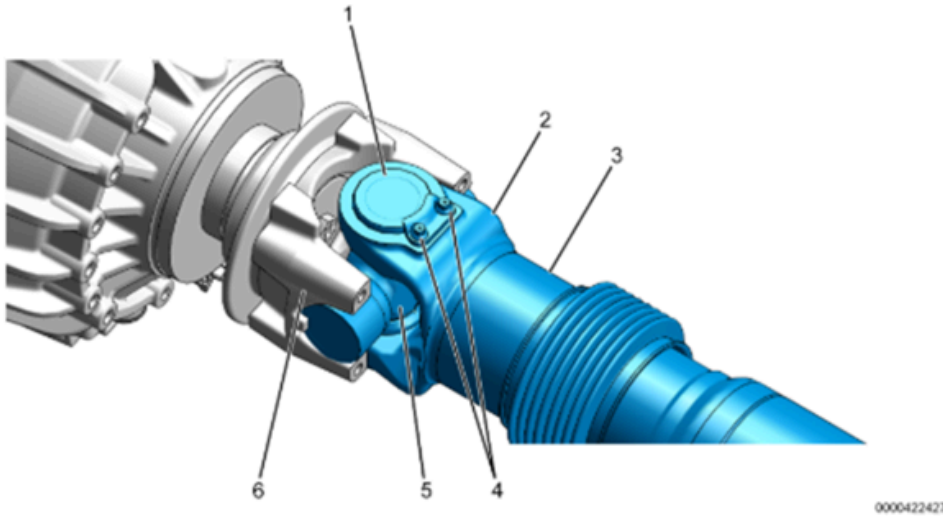


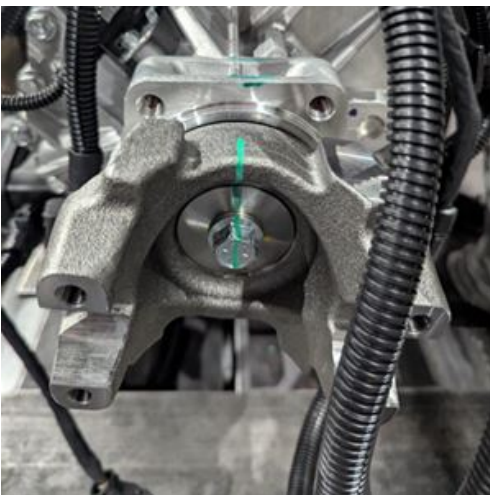
Figure: U-joint

1. Bearing caps (1)
2. Drive shaft yoke
3. Drive shaft
4. Caps screws (4)
5. Cross
6. Yoke

3. Inspect the transmission yoke, seal, bolt, and washer for damage and replace if necessary.

INSTALLATION PROCEDURE:

1. Using a yoke holding device or suitable equivalent, torque the transmission yoke bolt to 80-100 lb-ft (108-135 Nm).
2. Using a paint pen, mark the yoke, bolt, and washer as shown below.



3. Using a suitable lifting device, raise the driveshaft and insert the driveshaft yoke into the transmission yoke.
 4. Using new strap kit PN 1685128C91, install two new bearing straps to the transmission yoke with four new bearing strap bolts. Torque strap bolts to 52 lb-ft (70 Nm).
 5. Lubricate U-joints.
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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

[U-joint Installation - Service Information Home](#)

[Master Service Information Site](#)

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