

Part 573 Safety Recall Report

23V-740

Manufacturer Name : Gillig, LLC**Submission Date :** NOV 03, 2023**NHTSA Recall No. :** 23V-740**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : Gillig, LLC

Address : 451 Discovery Drive
LIVERMORE CA 94551

Company phone : 1-800-735-1500

Population :

Number of potentially involved : 4,286

Estimated percentage with defect : 25 %

Vehicle Information :

Vehicle 1 : 2019-2023 GILLIG LOW FLOOR

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : ALL

Power Train : DIESEL

Descriptive Information : Allison Transmission (ATI) has recently launched a campaign (NHTSA id. 23E-079) to recall a population of transmissions Model B3400xFE_R affected by a defect of the bolted connection between the driveline yoke to the transmission output shaft. Because of ATI's decision, GILLIG is recalling the bus population equipped with the transmission model that may be affected by the issue.

Production Dates : NOV 02, 2019 - OCT 26, 2023

VIN Range 1 : Begin : 15GGB2718K3192507 End : 15GGD2714P3094424 Not sequential**Description of Defect :**

Description of the Defect : Under certain conditions, the output yoke bolt may loosen and potentially result in separation of the driveline from the transmission output shaft.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the driveline separates from the transmission output shaft while driving, the vehicle may experience an unexpected loss of propulsion, which may increase the risk of a crash. Additionally, an immobilized transit bus presents a potential risk of injury to passengers if they are offloaded in an unsuitable environment.

Description of the Cause : ATI has not yet determined the cause of the loosening of the output yoke bolt. Since transit bus duty cycles have a very high start/stop shift density, ATI indicates that this may generate significantly more torsional activity on this bolted joint than other applications. Testing by ATI is ongoing.

Identification of Any Warning that can Occur : ATI indicated that the failure could occur without warning.

Involved Components :

Component Name 1 : Output Yoke Bolt

Component Description : Bolt connecting plate 29535213 and yoke 29540327 to output shaft 29540991

Component Part Number : PN29535219 (Allison PN)

Supplier Identification :

Component Manufacturer

Name : Allison Transmission

Address : One Allison Way
Indianapolis Indiana 46222

Country : United States

Chronology :

10/27/2023 GILLIG Compliance Dept. received notification about a new NHTSA recall campaign #23E-079 filed by ATI. The transmission OEM communicated a list of serial numbers of all transmissions potentially affected by the subject issue.

10/26/2023 GILLIG initiated population analysis to determine the affected vehicle population.

11/03/2023 GILLIG notified NHTSA by filing a formal safety recall to address the affected vehicles in the field.

Description of Remedy :

Description of Remedy Program : ATI will administer this recall. At the time this recall is filed, ATI is working with Gillig to inspect the output yoke bolts and, if necessary, tighten loose output yoke bolts. Pursuant to 49 CFR 577.11(e), ATI has requested NHTSA to be exempted from providing a pre-notification reimbursement plan. Pre-notification product failures would have been addressed under the terms of the ATI's or vehicle manufacturer's warranty.

How Remedy Component Differs : ATI communicated that has increased the torque specification for the

from Recalled Component : output yoke bolt for all B400R and B3400xFE_R transmissions. The clamp load for the output yoke bolt was increased by approximately 150%, nominal torque is being increased from the previous specification of 77.5 Newton-meters (Nm) to 130 Nm.

Identify How/When Recall Condition was Corrected in Production : In their 573 report, ATI specified that a specification change was implemented on October 3, 2023. This change increases the torque on the output yoke bolt from 77.5 Nm to 130 Nm. Gillig has implemented factory containment on 11/2/2023.

Recall Schedule :

Description of Recall Schedule : Recall notices will be sent as soon as NHTSA approves the draft letter. GILLIG does not have a dealer network. Therefore, dealer notification is not required for this recall.

Planned Dealer Notification Date : DEC 01, 2023 - DEC 01, 2023

Planned Owner Notification Date : DEC 01, 2023 - DEC 01, 2023

* NR - Not Reported