

# Part 573 Safety Recall Report

# 18V-418

**Manufacturer Name :** Gillig LLC**Submission Date :** JUL 23, 2018**NHTSA Recall No. :** 18V-418**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 : 21,800

Estimated percentage with defect : 100 %

**Vehicle Information :**

Vehicle 1 : 2001-2018 GILLIG Low Floor

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : ALL

Power Train : NR

Descriptive Information : The flashing rate of the turn signals is below the minimum threshold of 60 fpm specified by the FMVSS 108.

Production Dates : SEP 17, 2001 - JUN 05, 2018

VIN Range 1 : Begin : 15GGB271011071409 End : 15GGB2710J3191978  Not sequential**Description of Noncompliance :**

Description of the Noncompliance : Gillig has determined that the flashing rate of the subjected vehicles do not fully comply with the all requirements of FMVSS 108. The flash rate actuated by the system is 54-59 flashes per minute (fpm).  
108 - Lamps, reflective devices, and associated equipment.

FMVSS 1 : 108 - Lamps, reflective devices, and assoc. Equipment

FMVSS 2 : NR

Description of the Safety Risk : Turn signal lights that do not meet the requirements of FMVSS 108 may not be sufficiently visible to other drivers or pedestrians, potentially increasing the risk of a crash and fatalities.

Description of the Cause : The control logic of the I/O Control DINEX system specifies the turn signals should be "ON" for 0.5 seconds and be "OFF" for 0.5 seconds. Ideally, they should flash exactly 60 times per minute. In reality, the turn signals flash can be less than 60. The reason is because the latency associated with microprocessor, takes some time to execute the program. Therefore, the flashing rate might not achieve 60 times per minute in the 0.5/0.5 seconds setting.

Identification of Any Warning NR  
that can Occur :

## Supplier Identification :

### Component Manufacturer

Name : NR  
Address : NR  
NR  
Country : NR

## Chronology :

05/31/2018: Gillig engineering was notified that one bus in the field had a flashing rate between 54-57 flashes per minute. The above flashing rate was confirmed on a limited batch of buses during end-of-line quality control before delivery to customers. Gillig engineering reached out to the supplier of the Multiplex system to learn more about the possible cause of the issue.

06/05/2018: the supplier confirmed the issue is due to a programming error and affects several bus generations. A new program with modified flashing is tested by Gillig on new buses at the factory. With the new program, the flashing rate is confirmed to be in compliance with measured 65-69 fpm.

06/07/2018: all buses on Gillig's property are updated with the new software before delivery to customers.

06/13/2018: Gillig decides to initiate a formal recall for non-compliance with FMVSS 108

## Description of Remedy :

Description of Remedy Program : All vehicle owners will be notified of the recall. All vehicles with non-compliant turn signals will be reprogrammed with a new software and at no cost to the vehicle owner. The new software implements a new turn signal timer setting to compensate for the latency of microprocessor. .

How Remedy Component Differs from Recalled Component : The remedy component will consist in an updated software version.

Identify How/When Recall Condition was Corrected in Production : Starting on the date the non-compliance was confirmed (06/05/2018), all undelivered vehicles were held at the factory until the compliant remedy software was available for production release (06/07/2018). The flashing rate of all buses produced on or after 06/07/2018 is compliant with FMVSS 108. (60-120 fpm)

**Recall Schedule :**

Description of Recall Schedule : Gillig plans to send out owner notification letters between July 1st and August 18th 2018

Planned Dealer Notification Date : JUL 01, 2018 - AUG 18, 2018

Planned Owner Notification Date : JUL 01, 2018 - AUG 18, 2018

\* NR - Not Reported