

Part 573 Safety Recall Report

23V-424

Manufacturer Name : Blue Bird Body Company**Submission Date :** SEP 13, 2023**NHTSA Recall No. :** 23V-424**Manufacturer Recall No. :** R23CH (NSB)**Manufacturer Information :**

Manufacturer Name : Blue Bird Body Company

Address : P.O. Box 937
402 Blue Bird Boulevard Fort Valley
GA 31030

Company phone : 478-822-2242

Population :

Number of potentially involved : 109

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2022-2024 Blue Bird All American

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Some T3 and CVEV units equipped with pneumatic brakes have been found to inconsistently not have functioning air pressure gauges, and visual/audible low air warnings on startup in ambient $\leq 50^{\circ}\text{F}$ (10°C) temps. Blue Bird Field Service started fielding reports of this failure in September of 2022. PHRED 562 was opened October 28, 2022 to track and 8D the problem. Replacing clusters with applicable service parts did not resolve the problem, however, installing Part Number 10068500 (non-video) would allow the system to work properly. All external influences of cluster internal were eliminated. Internal audit of cluster software/hardware found the copy of the ignition signal that the co-processor (only used with 7 gauge clusters) reads to start running was being loaded down by an internal pulldown in the co-processor (Magna-V) itself. It is loaded to a level that is marginal to be read as a valid high when cold. If the co-processor does not see ignition, it will not run and the air gauges + low air warnings will not be active.

Production Dates : SEP 07, 2021 - JAN 11, 2023

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Description of Noncompliance :

Description of the Noncompliance : Some T3 and CVEV units equipped with pneumatic brakes have been found to inconsistently not have functioning air pressure gauges, and visual/audible low air warnings on startup in ambient $\leq 50^{\circ}\text{F}$ (10°C) temps. Blue Bird Field Service started fielding reports of this failure in September of 2022. PHRED 562 was opened October 28, 2022 to track and 8D the problem. Replacing clusters with applicable service parts did not resolve the problem, however, installing Part Number 10068500 (non-video) would allow the system to work properly. All external influences of cluster internal were eliminated. Internal audit of cluster software/hardware found the copy of the ignition signal that the co-processor (only used with 7 gauge clusters) reads to start running was being loaded down by an internal pulldown in the co-processor (Magna-V) itself. It is loaded to a level that is marginal to be read as a valid high when cold. If the co-processor does not see ignition, it will not run and the air gauges + low air warnings will not be active.

FMVSS 1 : 121 - Air brake systems

FMVSS 2 : NR

Description of the Safety Risk : In the absence of functioning air gauges and visual/audible warning, a driver would not have warning if brake air pressure was lost. Causing brake air pressure loss would result in non functioning brakes, therefore, increasing the chance of a crash.

Description of the Cause : Some T3 and CVEV units equipped with pneumatic brakes have been found to inconsistently not have functioning air pressure gauges, and visual/audible low air warnings on startup in ambient $\leq 50^{\circ}\text{F}$ (10°C) temps. Software glitch / bug

Identification of Any Warning that can Occur : A driver would be able to visually identify non functioning air gauges which is a pre-trip check requirement on air brake equipped buses.

Involved Components :

Component Name 1 : Instrument Cluster (Ametek Software)

Component Description : Instrument Cluster (Ametek Software)

Component Part Number : 10069519 (Ametek Software)

Component Name 2 : Instrument Cluster (Ametek Software)

Component Description : Instrument Cluster (Ametek Software)

Component Part Number : 10068500 (Ametek Software)

Supplier Identification :

Component Manufacturer

Name : Ametek Instrumentation & Specialty
Address : 1701 E Industrial Boulevard
Hidalgo Texas 78557
Country : United States

Chronology :

9/1/2022 - Blue Bird Field Service starting fielding reports of this failure.
10/28/2022 - 8D investigation was launched.
11/7/2022 - 8D investigation was closed determining a software malfunction.
11/18/2022 - Test software was installed & verified to correct the malfunction.
1/16/2023 - Instrument Clusters with updated software began to be used in Production.

Description of Remedy :

Description of Remedy Program : Cluster containing the updated software version began being used in production on January 18, 2023. If the modifications directed by this notification were performed on your bus prior to the receipt of this recall notification, provide a copy of the work order/invoice to campaignparts@blue-bird.com for Blue Bird warranty consideration. Parts are not required; Ametek Software update. Blue Bird will reimburse the labor cost of the repair related to this recall at no cost to the Dealer or to the vehicle owner.

How Remedy Component Differs from Recalled Component : Software version identification; Ametek Software updated needed.

Identify How/When Recall Condition was Corrected in Production : Cluster containing the updated software version began being used in Production on January 16, 2023.

Recall Schedule :

Description of Recall Schedule : Dealer and Owner Notifications are to be issued on or before August 9, 2023.
Parts are not required; Ametek Software update. Cluster containing the updated software version began being used in production on January 18, 2023. If the modifications directed by this notification were performed on your bus prior to the receipt of this recall notification, provide a copy of the work order/invoice to campaignparts@blue-bird.com for Blue Bird warranty consideration. Blue Bird will reimburse the labor cost of the repair related to this recall at no cost to the Dealer or to the vehicle

owner. Revision: Dealer and Owner Notifications are to be issued on or before July 28, 2023.

Planned Dealer Notification Date : JUL 28, 2023 - JUL 28, 2023

Planned Owner Notification Date : JUL 28, 2023 - JUL 28, 2023

* NR - Not Reported