

Part 573 Safety Recall Report

22V-505

Manufacturer Name : Blue Bird Body Company**Submission Date :** JAN 23, 2023**NHTSA Recall No. :** 22V-505**Manufacturer Recall No. :** R22BY-SB**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 : 482

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2018-2022 Blue Bird Vision

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : The subject Electric Drivetrain contains an electric air compressor to supply compressed air to the vehicle. These systems were sold as original equipment for installation in certain school buses and as original or upfit equipment for installation in certain medium duty trucks and terminal tractors. This recall consists of the entire population of PD7000 systems built prior to implementation of a new air compressor.

Production Dates : JAN 19, 2019 - JUL 02, 2022

VIN Range 1 : Begin : NR End : NR

 Not sequential

Vehicle 2 : 2018-2022 Blue Bird All American

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

Descriptive Information : The subject Electric Drivetrain contains an electric air compressor to supply compressed air to the vehicle. These systems were sold as original equipment for installation in certain school buses and as original or upfit equipment for installation in certain medium duty trucks and terminal tractors. This recall consists of the entire population of PD7000 systems built prior to implementation of a new air compressor.

Production Dates : AUG 01, 2018 - JUN 29, 2022

VIN Range 1 : Begin : NR End : NR

 Not sequential

Description of Defect :

Description of the Defect : The air compressor housing on these units is not properly grounded. As a consequence, the air compressor housing may experience an electrical voltage potential greater than 50V AC during air compressor operation.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : This condition may lead to an increased risk of injury from electric shock for any person (in particular, service personnel) touching the air compressor housing assembly while the air compressor is operating.

Description of the Cause : The cause is missing electrical grounding of the air compressor housing with respect to the vehicle chassis.

Identification of Any Warning that can Occur : None

Involved Components :

Component Name 1 : Compressor, Air (Cummins)

Component Description : Electrically Driven Air Compressor (Cummins)

Component Part Number : 5611745 (Cummins)

Supplier Identification :**Component Manufacturer**

Name : Cummin, Incorporated

Address : 500 Jackson Street
Columbus Indiana 47201

Country : United States

Chronology :

April 21, 2022: A Cummins employee experienced a mild electric shock, when he touched the air compressor motor housing at a Cummins facility.

April 21 through May 11, 2022: Cummins conducted an investigation to understand the cause of the issue. During the investigation, the voltage between the air compressor housing and vehicle chassis for the incident unit was measured as 110 V to 130V AC. Testing was conducted on the two configurations of air compressor and inverter assemblies to understand the ground paths and to verify the missing ground.

May 11 through June 1, 2022: A Cummins Product Safety Hazard Analysis was conducted. Testing was

completed

on the current production air compressor to confirm that it does not have this condition.

June 1 through June 28, 2022: Cummins escalated the issue through its Product Safety Defect Determination process.

June 28, 2022: Based upon the results of the investigation, the Cummins Product Safety Defect Board decided to conduct a safety campaign to address this condition. To date, there have been no reports of electrical shock (other than the Cummins employee on April 21, 2022 or injuries due to this condition).

July 12, 2022: Blue Bird Corporation was notified by Cummins of the Air Compressor Safety Recall Campaign.

Description of Remedy :

Description of Remedy Program : An electrical ground strap will be installed between the air compressor motor housing and the vehicle chassis. Pursuant to 49 CFR 577.11(e), Cummins requests that it be exempt from providing notification of a reimbursement plan. Any pre-notification product failure would have been replaced under the manufacturer's limited warranty. Accordingly, no person would be eligible for reimbursement pursuant to 573.13. Cummins will reimburse the 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 : The air compressor with the remedy ground strap installed will be visibly different than the air compressor without the ground strap.

Identify How/When Recall Condition was Corrected in Production : For reasons unrelated to this condition, units manufactured on and after 4/19/2022 are equipped with a new air compressor (P/N 5678863) in which the air compressor and electrical inverter are integrated into a single assembly that is collectively electrically grounded and does not have this condition.

Recall Schedule :

Description of Recall Schedule : Dealer and Owner Notifications are to be issued on or before September 2, 2022. Parts availability undetermined at this time. Cummins will reimburse the labor cost of the repair related to this recall at no cost to the Dealer or to the vehicle owner. Cummins expects the remedy to be available and published to Cummins' service network mid-February 2023 and will mail owner letters shortly after the campaign is released to the field.

Planned Dealer Notification Date : FEB 06, 2023 - FEB 06, 2023

Planned Owner Notification Date : FEB 06, 2023 - FEB 06, 2023

* NR - Not Reported