

Part 573 Safety Recall Report

23E-025

Manufacturer Name : Cummins, Inc.

Submission Date : MAR 27, 2023

NHTSA Recall No. : 23E-025

Manufacturer Recall No. : C2677



Manufacturer Information :

Manufacturer Name : Cummins, Inc.

Address : Box 3005

Mail Code COB118 Columbus IN
47202-3005

Company phone : 812-377-5000

Population :

Number of potentially involved : 445

Estimated percentage with defect : 100 %

Equipment Information :

Brand / Trade 1 : Cummins Inc.

Model : PowerDrive 7000

Part No. : BES CM0904 EV104B

Size : NR

Function : Electric Drive

Descriptive Information : Cummins is recalling the System Control Module (SCM) for certain electric drivetrain systems. This recall relates to the software calibration installed in these SCMs and includes the entire population of SCMs built within the specified dates and installed as original equipment in certain school buses.

Production Dates : JUN 01, 2018 - OCT 30, 2021

Description of Defect :

Description of the Defect : The SCM may activate the anti-rollback feature, causing the vehicle to move backwards uphill at a rate that may exceed certain drivers' expectations. This may occur once the driver releases the brake while the vehicle is in reverse and pointing downhill on a grade greater than approximately 7%.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : This condition may increase the risk of crash.

Description of the Cause : The cause is a software calibration issue.

Identification of Any Warning that can Occur : None

Involved Components :

Component Name : Software, Calibration

Component Description : SCM Calibration Software

Component Part Number : 6373041

Supplier Identification :

Component Manufacturer

Name : N/A

Address : NR

NR

Country : NR

Chronology :

7/20/2022 – Cummins received a report of this condition on two Blue Bird buses at a Canadian fleet customer. (No accidents or injuries were reported.) At this time, field service engineers were on site with this customer and were able to evaluate the complaint.

7/21/2022 – 8/12/2022 – Cummins conducted engineering tests and was able to replicate the condition.

8/12/2022 – 9/30/2022 – Cummins conducted further testing to understand the cause and in conjunction with this testing, developed a preliminary calibration that addressed this condition on the vehicles from which the complaint originated.

9/30/2022 – 11/28/2022 Cummins began a Product Safety Hazard Analysis and constituted a cross-functional team to conduct further vehicle evaluation comparing the vehicle performance with the original calibration and the preliminary new calibration.

11/28/2022 - 1/30/2023 – Cummins gathered additional information regarding the operation of the anti-rollback feature, conducted an additional vehicle evaluation, and completed the Product Safety Hazard Analysis.

2/14/2023 – 3/20/2023 – Cummins escalated the issue through multiple reviews in its Product Safety Defect Determination process including gathering additional information to answer questions from the Product Safety Defect Board and arranging a vehicle demonstration of the issue for the members of the Board.

3/20/2023 – Based upon the information developed during the investigation and the additional information, Cummins Product Safety Defect Board decided to conduct a safety campaign to address this condition. To date, there have been no reports of accidents or injuries related to this condition, and no further complaints (other than the initial two that prompted this investigation.)

Description of Remedy :

Description of Remedy Program : The remedy is to update the SCM software calibration. A recall-specific reimbursement plan will be provided on the Recall Portal for those units not covered by the manufacturer's limited warranty.

How Remedy Component Differs from Recalled Component : The software calibration part number will not change, but the remedy Calibration Number will be a new, unique number.

Identify How/When Recall Condition was Corrected in Production : Production of this product ceased on 10/30/2021 and therefore no correction was necessary for production units.

Recall Schedule :

Description of Recall Schedule : Cummins expects to notify Blue Bird, the only affected OEM, by 3/31/2023. Pending consultation and agreement with Blue Bird, Cummins will conduct the recall, including sending owner notifications. The timing of owner notification will be determined in consultation with Blue Bird. Cummins expects to publish the Safety Campaign to Cummins dealers on 4/28/2023 and expects to notify owners no later than 5/26/2023, pending availability of owner addresses from Blue Bird.

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

Planned Owner Notification Date : MAY 26, 2023 - MAY 26, 2023

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Blue Bird Corporation

Address : 3920 Arkwright Road
Suite 200 Macon GA 31210

Country : US

Company Phone : 4788222242

* NR - Not Reported