

Part 573 Safety Recall Report

23V-760

Manufacturer Name : Xos, Inc.
Submission Date : NOV 10, 2023
NHTSA Recall No. : 23V-760
Manufacturer Recall No. : REC 003-23

**Manufacturer Information :**

Manufacturer Name : Xos, Inc.
Address : 3550 Tyburn St.
 Los Angeles CA 90065
Company phone : 316-1890

Population :

Number of potentially involved : 242
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2021-2022 Xos SV05
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : NR

Descriptive Information : The recall population was determined by production records. The recalled products differ from other products that were not included in the recall because, during the specified production period, vehicles may have been produced with an electronic parking brake that may malfunction under certain circumstances. The recall population includes 222 Xos SV05 vehicles as potentially involved vehicles.

Production Dates : DEC 23, 2021 - MAY 23, 2023

VIN Range 1 : Begin : NR **End :** NR Not sequential

Vehicle 2 : 2021-2021 Xos SA01
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : NR

Descriptive Information : The recall population was determined by production records. The recalled products differ from other products that were not included in the recall because, during the specified production period, vehicles may have been produced with an electronic parking brake that may malfunction under certain circumstances. The recall population includes twenty (20) Xos SA01 vehicles as potentially involved vehicles.

Production Dates : FEB 21, 2022 - NOV 04, 2022

VIN Range 1 : Begin : NR **End :** NR Not sequential

Description of Defect :

Description of the Defect : Excessive friction between a bolt and a bracket on the actuator and piston sides of the electronic parking brake (EPB) system may result in one or both of the nuts holding the hardware to the EPB bracket to come loose, causing the electronic parking brake system to lose calibration and malfunction.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The malfunction may cause the EPB not to engage, or to fail to disengage.

If the EPB cannot be engaged, and the Manual Park Brake warning is ignored, and the vehicle is parked on a grade without being placed into "Park," the vehicle could rollaway, increasing the risk of a crash.

If the EPB cannot be disengaged, the vehicle may be immobilized.

Description of the Cause : The design of the electronic braking system was incorrect for the application.

Identification of Any Warning that can Occur : If the EPB cannot be engaged, the driver receives a warning that the EPB cannot be engaged and that the manual park brake must be engaged to secure the vehicle.

If the EPB cannot be disengaged, the driver receives a stop fault alerting the driver that the vehicle is immobilized and a service light will illuminate on the dash.

Involved Components :

Component Name 1 : Washer

Component Description : Washer from Pivot Bolt

Component Part Number : HD40-HH-M0031

Component Name 2 : Bolt

Component Description : NR

Component Part Number : HD20-HH-M0017

Component Name 3 : Nut

Component Description : NR

Component Part Number : HD30-HH-M0048

Supplier Identification :

Component Manufacturer

Name : NR
Address : NR
NR
Country : NR

Chronology :

In early 2022, Xos engineering initiated an investigation into reports of EPB malfunction involving the subject vehicles. In February 2023, the engineering team concluded that excessive friction between a bolt and a bracket on the actuator and piston sides of the EPB system may result in one or both of the nuts holding the hardware to the EPB bracket to come loose, causing the EPB system to lose calibration and malfunction. Subsequently, Xos engineering conducted additional analysis on potentially impacted vehicles. On November 6, 2023 the topic was presented to Xos's Product Safety Committee. Based upon the information presented, the Product Safety Committee decided to initiate a recall to address this condition. To date, there have been at least 45 reports related to this issue, with no reports of accidents or injuries related to this condition.

Description of Remedy :

Description of Remedy Program : The affected hardware on the impacted vehicles will be replaced at no cost to customers. All of the subject vehicles remain under the manufacturer's warranty. Therefore, pursuant to 49 CFR 577.11 (e), Xos requests an exemption from the reimbursement plan requirements.

How Remedy Component Differs from Recalled Component : The recall remedy component can be distinguished from the recalled component because the design of the remedy component will not create excessive friction in the EPB system. In addition, the vehicle software system will be updated to include a warning that displays instructing the driver to engage the manual parking brake any time the vehicle is placed into park, instead of only displaying when the EPB fails to engage.

Identify How/When Recall Condition was Corrected in Production : Vehicles shipped after May 24, 2023 were produced with an EPB system that is not impacted by this recall.

Recall Schedule :

Description of Recall Schedule : Customers and Dealers will be notified of the pending voluntary recall campaign beginning in November 2023. Copies of communications will be provided when available.
Planned Dealer Notification Date : NOV 20, 2023 - NOV 20, 2023
Planned Owner Notification Date : DEC 11, 2023 - DEC 11, 2023

* NR - Not Reported