

# Part 573 Safety Recall Report

# 23V-255

**Manufacturer Name :** Volvo Trucks North America**Submission Date :** APR 18, 2023**NHTSA Recall No. :** 23V-255**Manufacturer Recall No. :** RVXX2303**Manufacturer Information :**

Manufacturer Name : Volvo Trucks North America

Address : 7900 National Service Road

Greensboro NC 27409

Company phone : 800 528 6586

**Population :**

Number of potentially involved : 236

Estimated percentage with defect : 100 %

**Vehicle Information :**

Vehicle 1 : 2020-2023 Volvo VNR Electric

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : HYBRID ELECTRIC

**Descriptive Information :** The population is electric mobility vehicles which are equipped with adaptive cruise control enabled. Vehicles which are not electric mobility and do not have adaptive cruise control enabled are not impacted.

Production Dates : APR 16, 2019 - OCT 19, 2022

VIN Range 1 : Begin : 4V4W19KN0NN611441 End : 4V5W19KN2NN608097  Not sequentialVIN Range 2 : Begin : 4V4W19KN0NN611441 End : 4V5W19KN2NN608097  Not sequential**Description of Defect :**

**Description of the Defect :** During an adaptive cruise control braking event under light load conditions, regenerative braking could be aggressive with the potential of locking brakes and alternating anti-skid braking events, skidding the rear axle.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** Overly aggressive brake event which could result in loss of control which could result in a vehicle crash.

**Description of the Cause :** Adaptive cruise control was enabled without sufficient systems integration and software tuning.

**Identification of Any Warning that can Occur :** There are no warnings associated with this event.

**Involved Components :**

Component Name 1 : Volvo Systems Engineering

Component Description : Sensor (to be removed from truck)

Component Part Number : 23792796

## Supplier Identification :

### Component Manufacturer

Name : Volvo

Address : NR

NR

Country : NR

## Chronology :

March 13, 2023 Volvo discovered that adaptive cruise control components, specifically front radar, had been installed on our battery electric platform, the system had not been integrated into the battery electric driveline.

March 15, 2023 Product Safety Working Group opens an investigation on this issue.

March 20, 2023 Product Safety Working Group review of findings from investigation decides to recommend that this be raised to the Product Safety Committee as a potential safety defect.

March 30, 2023 Product Safety Committee reviews recommendation and asks for additional data relative to vehicle behavior.

April 3, 2023 Product Safety Committee meets and determines that a product safety defect exists.

April 7, 2023 573 Report Filed with NHTSA.

There have been no accidents or injuries or field complaints or warranty claims related to this issue.

## Description of Remedy :

Description of Remedy Program : Vehicles in scope will have any radar antennas and brackets (for the antenna) removed from the vehicle.

Wiring associated with this antenna will be secured to prevent ability to be hooked up to antenna.

Anti-lock braking system will be reprogrammed to turn adaptive cruise control off.

Reimbursement for the recall will be covered by Manufacturer's Reimbursement Plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : We are removing any components which may have been installed on the vehicles which could cause the safety defect. Disabling the adaptive cruise control functionality within the anti-lock braking electronic control unit to prevent the adaptive cruise control function on these vehicles.

Identify How/When Recall Condition was Corrected in Production : Currently these vehicles under our control in production are under a stop shipment pending correction.

## Recall Schedule :

Description of Recall Schedule : Dealer notification 4/11/23. Owner notification planned for 6/2/23.

Planned Dealer Notification Date : APR 11, 2023 - APR 11, 2023

Planned Owner Notification Date : JUN 02, 2023 - JUN 02, 2023

\* NR - Not Reported