

Part 573 Safety Recall Report

22V-288

Manufacturer Name : Volvo Car USA, LLC

Submission Date : JUN 08, 2022

NHTSA Recall No. : 22V-288

Manufacturer Recall No. : R10170



Manufacturer Information :

Manufacturer Name : Volvo Car USA, LLC

Address : 270 Three Point Drive
Ridgeville SC 29472

Company phone : 201-768-7300

Population :

Number of potentially involved : 5,351

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2021-2022 Volvo XC40 BEV

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Vehicles produced between 9-08-2020 and 8-13-2021 had an older style harness. There was a change in the cable harness supplier and the last vehicle produced with the older style harness was produced on 8-13-2021. The make and model affected by this is the Volvo XC40 BEV MY 2021-2022.

Production Dates : SEP 08, 2020 - AUG 13, 2021

VIN Range 1 : Begin : YV4ED3UR9M2439208 **End :** YV1XZEDVEN2663838 ☐ Not sequential

Description of Defect :

Description of the Defect : Water may enter the cable harness with capillary action and enter the accelerator pedal. The water may cause corrosion in accelerator pedal internal circuits; this may cause the signals from the pedal to be corrupted.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Customer may experience unintended acceleration or no acceleration, loss of drive or no start, increasing the risk of a crash.

Description of the Cause : Cable harness from supplier may not be waterproof. Water intrusion from potentially damaged cable harness may corrode circuit accelerator pedal sensor (APS) causing unintended APS signals.

Identification of Any Warning that can Occur : Depending on which signal that gets corrupted the faults may differ, vehicles have a built-in safety logic when receiving faulty signals which reduces the acceleration. The vehicle is still controllable, and the customer can always stop the vehicle with the brake pedal.

Involved Components :

Component Name 1 : Left wheelhouse harness

Component Description : Accelerator Pedal Harness

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : Leoni Wiring Systems France

Address : 5 Avenue Newton

Montigny Le Bretonneux Foreign States F-78180

Country : France

Chronology :

Considered as a critical concern by Critical Concern Management Team 04.20.2022; Field Service Action decision confirmed by Volvo Car Corporation 04.27.2022; Implementation date of Field Service Action 04.28.2022; Condition detected by Market; Number of vehicle reports with the condition reported to Volvo Cars from National Sales Company 28; Total number of cars included in Vehicle Reports concerning this condition 28.

In the first quarter of 2022 Volvo Cars starts to receive reports indicating different issues with accelerator pedal behaviour: no acceleration or bad response and jerky behaviour. Volvo Cars R&D initiated an investigation on possible issue and further discussion and analysis with cable harness supplier.

The issue was presented to Critical Concern Management Team (CCMT) April 6, 2022. CCMT ordered a start of technical investigation including risk assessment. The technical investigation was completed April 20 and presented to CCMT. CCMT ordered start preparation for a safety recall. The recall preparation was completed April 27 and is scheduled to launch April 28.

Description of Remedy :

Description of Remedy Program : To remedy the concerned vehicles Volvo Cars will inspect for corrosion in APS and connector terminal and change if fault detected. In all cars capillary breaking splice will be installed to stop any risk of water intrusion towards APS. All vehicles repaired at no cost to the customer under Volvo Warranty.

How Remedy Component Differs from Recalled Component : Adding water-breaking cable splice, to cancel capillary water intrusion towards accelerator pedal.

Identify How/When Recall Condition was Corrected in Production : Change of cable harness supplier. Last Vehicle produced at Volvo site, 2021-08-13.

Recall Schedule :

Description of Recall Schedule : Remedy Notices

Planned Dealer Notification Date : APR 28, 2022 - APR 28, 2022

Planned Owner Notification Date : JUN 20, 2022 - JUN 20, 2022

* NR - Not Reported