

Part 573 Safety Recall Report

21V-683

Manufacturer Name : Polestar Automotive USA, Inc.

Submission Date : SEP 01, 2021

NHTSA Recall No. : 21V-683

Manufacturer Recall No. : R10112



Manufacturer Information :

Manufacturer Name : Polestar Automotive USA, Inc.

Address : 1 Volvo Drive
ROCKLEIGH NJ 07647

Company phone : 999

Population :

Number of potentially involved : 2

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2021-2021 Polestar PS1

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Polestar has been informed by our supplier, AutoLiv, that there may be a risk that certain seat belts with the Automatic Locking Retractor (ALR) have not been produced according to specifications and may result in early deactivation of locking feature used to tightly secure a child restraint system. The number of vehicles affected 2 which include certain Model Year 2021 PS1 vehicles.

Production Dates : APR 10, 2021 - APR 10, 2021

VIN Range 1 : Begin : LPSBE0YL1MB000976 **End :** LPSBE0YXMB000978 ☒ Not sequential

Description of Defect :

Description of the Defect : The subject seat belt assemblies have a feature that converts the retractor from an emergency locking retractor (ELR) to an automatic locking retractor (ALR). The seat belts convert to the ALR mode after the webbing has been fully withdrawn from the retractor. The system is designed so that as the seat belt is released into the retractor, the ALR function remains active so a child restraint seat can be tightly secured. However, in certain seat belt assemblies the ALR function deactivates early before the webbing is fully retracted.

FMVSS 1 : 208 - Occupant crash protection

FMVSS 2 : NR

Description of the Safety Risk : This noncompliance does not impact the compliance or functionality of the seat belt assemblies with respect to their normal use by adult passengers or use of the LATCH system to secure child restraint seats. With child restraint seats for which the vehicle owner elects to use the seat belt to secure the child restraint seat instead of the LATCH system, if the seat belt is not lockable so that the seat belt assembly can be used to tightly secure the child restraint

seat, there is an increased risk of injury in a crash to the occupant of the child restraint seat.”

Description of the Cause : Tier 2 supplier has produced levers in the ALR which is dimensionally out of tolerance that may cause the ALR to deactivate early. The description of the root cause of the is described by Autoliv in its equipment report as follows: “The subcomponent supplier of the ALR levers used in the subject seat belt assemblies produced dimensionally out of tolerance parts that may cause the ALR to deactivate before the seat belt webbing is fully retracted.”

Identification of Any Warning that can Occur : According to Autoliv's equipment report regarding identification of any warning that can precede or occur: “A vehicle owner who elects to use the seat belt instead of the LATCH system to secure a child restraint seat will notice that the audible clicking noise made when the ALR function is activated stops well before the seat belt webbing is fully retracted.”

Involved Components :

Component Name 1 : ALR Sensor Lever

Component Description : Automatic Locking Seat Belt Retractor - Sensor Lever

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : AutoLiv Inc

Address : Klarabergsviadukten 70
Stockholm Foreign States 111 64

Country : Sweden

Chronology :

June 2021 – Information regarding noncompliance from Autoliv; June-August 2021 – Volvo Car R&D investigation on possible non-compliance and further discussions with Autoliv, Inc.; August 2021 – Decision taken to start preparation for a recall of the non-compliance issue; August 25, 2021 – Condition considered as Critical by Critical Concern Management Team; September 1, 2021 – Field Action decision confirmed by Volvo Car Corporation; September 01, 2021 - Implementation Date. Condition was detected by information from Supplier; Number of Vehicle Reports with the condition 0 (zero).

Description of Remedy :

Description of Remedy Program : To remedy the concerned vehicles, Polestar will inspect and perform a functionality test. If necessary, the affected seat belts will be replaced. At no charge to the customers.

How Remedy Component Differs from Recalled Component : The ALR system in the replacement seat belt assemblies contain ALR levers that were manufactured according to production specification.

Identify How/When Recall Condition was Corrected in Production : The ALR system in the replacement seat belt assemblies contain ALR levers that were manufactured according to production specification. Changes to production parameters at the subcomponent supplier ensure that this issue can no longer occur from January 11, 2021, onward.

Recall Schedule :

Description of Recall Schedule : Remedy Notices

Planned Dealer Notification Date : SEP 01, 2021 - SEP 01, 2021

Planned Owner Notification Date : OCT 31, 2021 - OCT 31, 2021

* NR - Not Reported