

Part 573 Safety Recall Report

17V-104

Manufacturer Name : Volvo Car USA LLC**Submission Date :** AUG 22, 2017**NHTSA Recall No. :** 17V-104**Manufacturer Recall No. :** R89714**Manufacturer Information :****Population :**

Manufacturer Name : Volvo Car USA LLC

Number of potentially involved : 10,476

Address : AUTOMOTIVE SAFETY & COMPLIANCE
1 VOLVO DRIVE, BUILDING B
ROCKLEIGH NJ 07647

Estimated percentage with defect : 5 %

Company phone : 201-768-7300

Vehicle Information :

Vehicle 1 : 2017-2017 Volvo XC90, S90, V90CC

Vehicle Type : LIGHT VEHICLES

Body Style : ALL

Power Train : GAS

Descriptive Information : Volvo has identified that some of the bolts holding the inflatable curtain in place could be affected by a manufacturing error that may cause the bolt head to detach, subsequently not holding the inflatable curtain in place.

Production Dates : NOV 21, 2016 - MAR 01, 2017

VIN Range 1 : Begin : YV1A22MK9H1011536 End : YV1LF68BCH0017775

 Not sequential

VIN Range 2 : Begin : YV1PZA8ACH1000098 End : YV1PZ68BCH1005224

 Not sequential

VIN Range 3 : Begin : YV1LF68BCH1150614 End : YV1LF68BCH1175025

 Not sequential**Description of Defect :**

Description of the Defect : Manufacturing error in the surface treatment process leading to hydrogen embrittlement within some bolts due to process variability at the supplier. The bolts are used to assemble the inflatable curtain (IC).

When affected bolts are used and assembled an internal chemical process within the bolt may start. This may after a certain time period (about 48 hours) result in a bolt breakage.

FMVSS 1 : 226 - Ejection mitigation

FMVSS 2 : NR

Description of the Safety Risk : If the vehicle has been assembled with one or more of the affected bolt, the customer may notice noise over time. However in the event of a crash, passengers may have less protection from the IC than intended hence increasing the risk of injury to the vehicle occupants.

Description of the Cause : Manufacturing error in the surface treatment process leading to hydrogen

embrittlement within some bolts due to process variability at the supplier. The bolts are used to assemble the inflatable curtain (IC).

Identification of Any Warning that can Occur : If the vehicle has been assembled with one or more of the affected bolt, the customer may notice noise over time. However in the event of a crash, passengers may have less protection from the IC than intended hence increasing the risk of injury to the vehicle occupants.

Supplier Identification :

Component Manufacturer

Name : Autoliv Poland./Bulten Sweden
Address : Box 8708 - Terminalvägen 12, ARW
Göteborg FOREIGN STATES SE-418 79
Country : Sweden

Chronology :

In the beginning of February Volvo Cars received a Vehicle Report (VR) containing one vehicle. During repair of the courtesy handle a detached bolt head was found, further investigation showed that the bolt head came from the IC installation.

Due to the severity of the issue, an investigation started at Volvo Cars together with the sub supplier to analyze the root cause of the problem.

On the 10th of February the Critical Concern Management Team (CCMT) at Volvo Cars considers this potentially critical, CCMT decides to start recall preparation.

A port investigation was issued on the 13th of February to block and check vehicles in port to further investigate the fault frequency.

The 16th of February CCMT approves the initial Part 573 notification to NHTSA.

Investigation still ongoing to identify concerned vehicles together with the supplier from the concerned batch numbers.

Volvo Cars will file an updated Part 573 when the vehicles have been identified.

The 23th of February CCMT initiated additional analysis at retailers to further verify and control the concerned vehicles.

On the 1th of March CCMT decides to launch a worldwide recall for all concerned vehicles.

Description of Remedy :

Description of Remedy Program : Replace all affected bolts.

How Remedy Component Differs from Recalled Component : New bolts are from a cleared batch from the supplier with a new surface treatment.

Identify How/When Recall Condition was Corrected in Production : Vehicles produced after 03/01/17 have the new bolts installed.

Recall Schedule :

Description of Recall Schedule : Owner notifications completed on 04/14/17

Planned Dealer Notification Date : FEB 16, 2017 - FEB 23, 2017

Planned Owner Notification Date : APR 01, 2017 - APR 01, 2017

* NR - Not Reported