

Part 573 Safety Recall Report

21E-095

Manufacturer Name : Key Safety Systems, Inc. - (DBA Joyson)

Submission Date : MAR 23, 2022

NHTSA Recall No. : 21E-095

Manufacturer Recall No. : QN 22774



Manufacturer Information :

Manufacturer Name : Key Safety Systems, Inc. - (DBA Joyson)

Address : 2025 Harmon Road
Auburn Hills MI 48326

Company phone : 475 6111

Population :

Number of potentially involved : 311

Estimated percentage with defect : 100 %

Equipment Information :

Brand / Trade 1 : Curtain Airbag Inflator

Model : HPH-A

Part No. : 2546178-AD

Size : NR

Function : Occupant restra

Descriptive Information : The HPH-A is a compressed gas inflator. In production, gas pressure is monitored to ensure proper fill. However, due to a programming error, inflators with improper fill were not rejected. Because the relevant data was recorded, it was possible to subsequently identify components released with improper fill.

Production Dates : NOV 29, 2020 - OCT 28, 2021

Description of Defect :

Description of the Defect : The subject inflators were released with an incorrect amount of gas, which could result in an airbag deployment different than design intent, with a potential negative impact on restraint performance in the event of a a crash.

FMVSS 1 : NR

FMVSS 2 : 214 - Side impact protection

Description of the Safety Risk : Reduction in the airbag's restraint performance may increase the risk of occupant injury in a crash

Description of the Cause : In late 2020, production of the subject HPH-A inflators was relocated from Valle Hermosa Mexico to Monclova Mexico. In the programming the Programmable Logic Controller (PLC) for the gas station, an error was made such that gas fill data, though recorded, did not automatically lead to rejection of individual components when measured as outside specification. As a result, some parts with more or less gas than intended were released to the field.

Identification of Any Warning that can Occur : The condition addressed is not apparent in advance of airbag deployment (except through review of manufacturing data).

Involved Components :

Component Name : HPH-A inflator

Component Description : Stored Gas Curtain Airbag Inflator

Component Part Number : 2546178-AD, 2546179-AD, 2546180-AD, 2546219-AE

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

On November 4, 2021, an airbag module containing an HPH-A inflator built in JSS Monclova plant did not properly inflate the cushion when activated during a laboratory test. Subsequent investigation determined that while the inflator production line measured and recorded each inflator to determine if the correct volume of gas was present, the production line was not rejecting out of specification units. JSS reviewed the recorded data and identified specific inflators (by serial number) which were released without appropriate gas levels. On November 12, 2021, the JSS Product Safety Committee determined that the relevant inflator population poses a risk to occupant safety and directed submission of this report. JSS informed affected OEMs of action to submit a Defect Investigation Report with NHTSA and were provided a copy the filing.

Description of Remedy :

Description of Remedy Program : JSS will provide a new Curtain Airbag module to OEMs as necessary to replace the suspect units

How Remedy Component Differs from Recalled Component : The new parts will be made on the production line after PLC has been corrected

Identify How/When Recall Condition was Corrected in Production : In November of 2021, the PLC logic was corrected, and verification performed to ensure the automatic rejection of components with inadequate gas fill.

Recall Schedule :

Description of Recall Schedule : JSS informed affected OEMs of action to submit a Defect Investigation Report with NHTSA and were provided a copy the filing.
Planned Dealer Notification Date : NR - NR
Planned Owner Notification Date : NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Ford Motor Company
Address : 3300 Town Center Drive
Suite 500/5024 Dearborn MI 48126
Country : US
Company Phone : NR

Name : Stellantis
Address : 1000 Chrysler Drive
Auburn Hills MI 48326
Country : US
Company Phone : NR

* NR - Not Reported