

Part 573 Safety Recall Report

20E-011

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

Submission Date : MAR 06, 2020

NHTSA Recall No. : 20E-011

Manufacturer Recall No. : QN3998



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 : 108,047

Estimated percentage with defect : 4 %

Equipment Information :

Brand / Trade 1 : Rear Seat belt

Model : CFR retractor

Part No. : Various CFR retracto

Size : NA

Function : Occupant Restra

Descriptive Information : 108,047 retractors comprise the suspect. Not all were incorporated into vehicles for the US market. Only affected OEMs could provide data regarding the number of relevant vehicles imported into the US.

Production Dates : AUG 19, 2019 - AUG 29, 2019

Description of Defect :

Description of the Defect : The subject retractor incorporates multiple mechanisms that lock a seatbelt assembly in the event of a crash. The vehicle sense, which is activated by vehicle deceleration, is the primary locking mechanism. The web sense, which activated by webbing extraction, is redundant. In some retractors within the identified population, incorrect assembly of an internal spring (due to improper adjustment of certain assembly line equipment) may cause the web sense feature to become inoperative, while the vehicle sense remains fully functional.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : To the extent which a component exhibiting the condition described above is not detected by an OEM during the vehicle assembly process, and in the unlikely circumstance that vehicle sense also fails to function, this could cause a loss of restraint.

Description of the Cause : In some retractors within the identified population, incorrect assembly of the

pawl spring (due to improper adjustment of certain assembly line equipment) may cause the web sense feature to become inoperative, while the vehicle sense remains fully functional.

Identification of Any Warning that can Occur : To the extent which a component exhibiting the condition described above is not detected by an OEM during the vehicle assembly process, and in the unlikely circumstance that vehicle sense also fails to function, this could cause a loss of restraint.

Supplier Identification :

Component Manufacturer

Name : Joyson Safety Systems
Address : 2-3-14 Higashishinagawa, Shinagawa-ku
Tokyo FOREIGN STATES
Country : Japan

Chronology :

On August 19, 2019, personnel performed maintenance on the automated assembly equipment that installed the subject spring. On August 24th, a customer reported an issue with the web sense lock function. The part was examined, and it was determined that the pawl spring (compression spring) was incorrectly inserted into the groove provided for that purpose in the retractor spool, and the base of the spring was not correctly located into the pocket at the bottom of the groove. In the subject component, mis-installation resulted in a spring that "bowed out" rather than compressed as intended, interfering with the flywheel and disabling the web sense locking feature.

On August 29th, the assembly equipment was adjusted. In addition, a vision system was added to provide a 100% check of the installed position of this pawl spring.

On Sept 6th, 2019, the JSS Japan/Asia Regional Product Safety committee reviewed this issue and directed that all customers who received retractors manufactured on the relevant assembly line during the suspect period be informed about the potential for non-functioning Web sense.

On September 20, 2019, this issue was considered by the JSS Global Product Safety Committee, which directed that all customer OEMs be provided the most recent information on the subject so they could assess the safety and regulatory implications in the various jurisdiction in which affected products were sold. The JSS Global Product Safety Committee did not determine that a defect affecting motor vehicle safety was present considering the redundancy afforded by the vehicle sense mechanism.

Subsequently, several OEMs filed Defect Investigation Reports reflecting their individual determinations to recall the subject components. On February 28th, 2020, the JSS Global PSC determined that given that these OEM submissions covered components supplied to multiple customers, submission of an equipment defect report was appropriate.

Description of Remedy :

Description of Remedy Program : JSS will provide new belt and retractor assemblies to OEMs as necessary to replace the suspect components.

How Remedy Component Differs from Recalled Component : The internal mechanisms in the retractor will be properly assembled.

Identify How/When Recall Condition was Corrected in Production : As noted in the chronology section, the assembly equipment was adjusted on August 29, 2019 and the proper installation of the spring is now verified by a vision system.

Recall Schedule :

Description of Recall Schedule : The Affected OEMs are in control of the notification/recall schedule.

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 : Toyota Motor Engineering & Manufacturing

Address : 6565 Headquarters Drive
Plano TX 75024

Country : US

Company Phone : NR

Name : Subaru of America Inc

Address : One Subaru Drive
Camden NJ 08103

Country : US

Company Phone : NR

Name : Nissan North America Inc

Address : 1 Nissan Way
Franklin TN 37067

Country : US

Company Phone : NR

Name : Honda (American Honda Motor Co.)

Address : 1919 Torrance Blvd.

Torrance CA 90501

Country : US

Company Phone : NR

Name : Suzuki Motor of America, Inc.

Address : 3251 East Imperial Highway

Brea CA 92821

Country : US

Company Phone : NR

Name : Isuzu Technical Center of America Inc

Address : 46401 Commerce Center Drive

Plymouth MI 48170

Country : US

Company Phone : NR

Name : Daihatsu Motor Company Ltd.

Address : 1-1 Daihatsu-cho

Ikeda-shi 00 563-8651

Country : JP

Company Phone : NR

* NR - Not Reported