

# Part 573 Safety Recall Report

# 17V-307

**Manufacturer Name :** General Motors LLC**Submission Date :** JUN 06, 2017**NHTSA Recall No. :** 17V-307**Manufacturer Recall No. :** 17199**Manufacturer Information :**

Manufacturer Name : General Motors LLC

Address : 30001 VAN DYKE  
MAIL CODE 480-210-2V WARREN MI  
48090

Company phone : 5961733

**Population :**

Number of potentially involved : 55,068

Estimated percentage with defect : 100 %

**Vehicle Information :**

Vehicle 1 : 2016-2017 Chevrolet Spark

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : All 2016 through 2017 Chevrolet Spark vehicles.

Production Dates : FEB 09, 2015 - MAY 04, 2017

VIN Range 1 : Begin : NR End : NR

 Not sequential**Description of Defect :**

Description of the Defect : General Motors has decided that certain 2016 - 2017 Chevrolet Spark vehicles may not comply with Federal Motor Vehicle Safety Standard ("FMVSS") 208, "Occupant Crash Protection." During air bag compliance testing using unbelted, out of position 3-year-old and 6-year-old test dummies in the front passenger seating position, the dummy instrumentation recorded axial neck force from the air bag's deployment greater than permitted by FMVSS 208 S22.4.2, S21.5.5, and S23.5.5.

FMVSS 1 : 208 - Occupant crash protection

FMVSS 2 : NR

Description of the Safety Risk : Although it is unsafe and inadvisable for a child occupant to ride unsecured in the front passenger seat, a child in that position at the time of a crash necessitating air bag deployment may be subject to an increased risk of injury.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

## Supplier Identification :

### Component Manufacturer

Name : S & T Motiv (TRW)  
Address : 363 Yeoraksongjeong-ro  
Busan FOREIGN STATES  
Country : Korea, Republic of

## Chronology :

On April 4, 2017 NHTSA notified GM that compliance testing performed by contractor MGA Research Corporation determined that the peak axial neck force experienced by test dummies in Three-Year-Old Passenger Position 1 (Out of position, chest on instrument panel) exceeded the FMVSS 208 performance limit. The recorded peak neck force (Fz) on the three-year-old dummy in this position was 1531 N, 35% greater than the 1130 N peak neck force limit imposed by FMVSS 208 S21.5.5.

On April 4, 2017, GM opened a formal investigation. Initial findings were reviewed in GM's Global Open Investigation Review on April 26, 2017.

Between April 26 and April 30, GM performed three additional tests to verify NHTSA's results with respect to the three-year-old dummy in Position 1. The recorded peak axial neck force in these tests exceeded the FMVSS 208 limit, by 12 %, 26 % and 19 %, respectively. These tests differed from requirement validation testing conducted at GM supplier TRW in May 2015, which recorded peak force of less than 800 N.

GM also tested six year old-sized dummies in Position 1 at this time. Across four tests, the values for peak axial neck force were recorded at 42%, 52%, 96% and 106% of the FMVSS 208 limit.

These results were reviewed in GM's Open Investigation Review on May 1, 2017. On May 2, 2017, GM's Safety Field Action Decision Authority (SFADA) decided to conduct a recall for the subject vehicles.

An investigation into the root cause of the noncompliant condition is ongoing.

## Description of Remedy :

Description of Remedy Program : Dealers will replace the passenger air bag module with a new air bag module. Pursuant to 49 C.F.R. § 573.13(d)(1), all covered vehicles are under warranty so reimbursement is not offered.

How Remedy Component Differs from Recalled Component : The replacement air bag module contains an air bag with an additional, folded-in flap intended to guide the trajectory of the air bag and reduce the axial neck force recorded per FMVSS 208 S22.4.2, S21.5.5, and S23.5.5.

Recalled Component Name: Passenger Air Bag Module  
Recalled Component Description: Passenger air bag  
Recalled Component Part Number: 42481325  
Recalled Component Country of Origin: Korea

Identify How/When Recall Condition was Corrected in Production : GM will supplement this information when parts availability is finalized.

### Recall Schedule :

Description of Recall Schedule : General Motors will provide owner letter notification dates when available.  
Planned Dealer Notification Date : MAY 09, 2017 - MAY 09, 2017  
Planned Owner Notification Date : NR - NR

\* NR - Not Reported