

# Part 573 Safety Recall Report

# 17V-457

**Manufacturer Name :** Mazda North American Operations**Submission Date :** DEC 25, 2017**NHTSA Recall No. :** 17V-457**Manufacturer Recall No. :** 1317F**Manufacturer Information :**

Manufacturer Name : Mazda North American Operations

Address : 1025 Connecticut Avenue, NW

Suite 910 Washington DC 20036

Company phone : 800-222-5500

**Population :**

Number of potentially involved : 79,402

Estimated percentage with defect : 1 %

**Vehicle Information :**

Vehicle 1 : 2012-2012 Mazda Mazda6

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Plant information; Auto Alliance, Inc. Flat Rock, Michigan.

Production Dates : MAY 17, 2011 - APR 17, 2012

VIN Range 1 : Begin : 1YVHZ8CH4C5M00007 End : 1YVHZ8EH5C5M44241  Not sequential

Vehicle 2 : 2009-2009 Mazda Mazda6

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Plant information; Auto Alliance, Inc. Flat Rock, Michigan.

Production Dates : APR 14, 2008 - JUN 19, 2009

VIN Range 1 : Begin : 1YVHP81A195M00065 End : 1YVHP82A995M52249  Not sequential

Vehicle 3 : 2012-2012 Mazda CX-9

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Plant information; Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : JUL 27, 2011 - SEP 27, 2012

VIN Range 1 : Begin : JM3TB2CA5C0333121 End : JM3TB2DA6C0369267  Not sequential

Vehicle 4 : 2012-2012 Mazda CX-7

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Plant information; Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : OCT 24, 2011 - MAY 09, 2012

VIN Range 1 : Begin : JM3ER2BM2C0410396 End : JM3ER2B56C0425167  Not sequential

Vehicle 5 : 2007-2009 Mazda CX-9

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Plant information; Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : OCT 27, 2006 - JUL 27, 2009

VIN Range 1 : Begin : JM3TB28C770100132 End : JM3TB38Y070121096  Not sequential

VIN Range 2 : Begin : JM3TB38A680121110 End : JM3TB38V680164252  Not sequential

VIN Range 3 : Begin : JM3TB38V590164261 End : JM3TB38A690181258  Not sequential

Vehicle 6 : 2007-2009 Mazda CX-7

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Plant information; Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : FEB 14, 2006 - JAN 06, 2009

VIN Range 1 : Begin : JM3ER293870100062 End : JM3ER293870169172  Not sequential

VIN Range 2 : Begin : JM3ER293680169219 End : JM3ER29L980215724  Not sequential

VIN Range 3 : Begin : JM3ER293290215758 End : JM3ER29L490238426  Not sequential

## Description of Defect :

Description of the Defect : Updated December 21, 2017 – This submission is to inform of Mazda’s intent to implement the “other” reporting category for removed vehicles in Quarterly Reporting as permitted in the Third Amendment to the Coordinated Remedy Order (“ACRO”), Paragraphs 45 through 49. As a condition of the ACRO, all affected vehicles will remain active, or “live”, across Mazda’s data systems such that any search of “other” removed VINs will return an open recall status. For this reason, the Number of potentially involved vehicles in this report will remain the same. However, for reference, initial counts of vehicles in the “other” reporting category are indicated in attached supplement. Note that these counts are current as of the fourth calendar quarter 2017. Future changes to overall Total Removed counts, including “Other,” will be reflected in quarterly reporting.

This submission is to replace the existing recall, 17V012 originally submitted on January 11, 2017 in order to manage recall action properly. On 17V012, the remedy was to replace the airbag inflator with an original “like-for-like” airbag inflator using non-desiccated phased- stabilized ammonium nitrate (“PSAN”), which was regarded as a temporary remedy. At present, an alternative airbag inflator using a non-PSAN based propellant will become available in the field. This new recall covers vehicles not yet repaired under 17V012. The improved airbag inflator is considered a permanent part and will be manufactured for the remedy on the remaining unrepaired vehicles. The repaired vehicles under 17V012 will be moved to upcoming DIR#5, in order to replace the airbag inflator with permanent remedy parts.

The PSPI-6 air bag inflator, equipped in these subject Mazda vehicles, may potentially rupture during passenger side air bag deployment due to propellant degradation occurring after prolonged exposure to high absolute humidity, high temperatures, and high temperature cycling.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Activation of a non-desiccated ammonium nitrate inflator with degraded propellant may result in an inflator rupture. An inflator rupture may cause metal fragments to pass through the air bag and into the vehicle interior at high speed, which may result in injury or death to vehicle occupants.

Description of the Cause : The propellant wafers in the subject inflators may degrade over time, which could lead to over-aggressive combustion in the event the air bag is activated. Overly aggressive combustion creates excessive internal pressure when the inflator is activated, which may cause the inflator body to rupture. Based on Takata’s investigation to date, the potential for such ruptures occur after several years of exposure to persistent conditions of high absolute humidity, high temperatures, and high temperature cycling. The potential for rupture may also be influenced by other factors, including the specific vehicle environment, the inflator and propellant configuration, and manufacturing variability.

Identification of Any Warning NR  
that can Occur :

## Supplier Identification :

### Component Manufacturer

Name : Takata / T K Holding INC.  
Address : 888 16th street, NW, Suite 800 Washingto  
12-31 Akasaka 2-chome Minato-ku, in Japa FOREIGN STATES  
Country : Japan

## Chronology :

On January 10, 2017; On the basis of the Takata submitted DIR#2 on January 3, 2017, Mazda decided to implement a recall and Mazda submitted a recall to NHTSA and the recall No 17V012 was assigned. The following subject vehicles were added to the recall, MY 2012 Mazda6 in Zone A, MY 2009 Mazda6 in Zone B, MY 2012 CX-7 in Zone A, MY 2009 CX-7 in Zone B, MY 2007 through 2008 CX-7 in Zone C, MY 2012 CX-9 in Zone A, MY 2009 CX-9 in Zone B and MY 2007 through 2008 CX-9 in Zone C.

From January, 2017 through June, 2017; Mazda has been conducting recall action replacing airbag inflator with like-for-like parts as a temporary remedy. In parallel, Mazda prepared a permanent replacement inflator as replacement parts for the permanent remedy.

July 17, 2017; Permanent replacement parts availability is under study. Mazda decided to conduct a new recall superseding 17V012 with the unrepaired vehicles.

## Description of Remedy :

Description of Remedy Program : Owners of record will be notified of this issue and instructed to take their vehicles to a Mazda dealer for repair. The dealer will replace the frontal passenger side airbag inflator with the permanent remedy parts. The repair will be performed free of charge to the vehicle owners. Note: Mazda plans to use a single manufacturer recall number for all five (5) Defect information report ("DIR") groups, in this case recall number 1317F. Each DIR group will be identified by separate NHTSA Defect Information Report filings.

How Remedy Component Differs NR  
from Recalled Component :

Identify How/When Recall Condition NR  
was Corrected in Production :

**Recall Schedule :**

Description of Recall Schedule : A draft of the planned owner letter will be sent when it become available.  
Planned Dealer Notification Date : AUG 11, 2017 - AUG 11, 2017  
Planned Owner Notification Date : AUG 25, 2017 - AUG 25, 2017

\* NR - Not Reported