

Part 573 Safety Recall Report

18V-716

Manufacturer Name : Mazda North American Operations**Submission Date :** OCT 12, 2018**NHTSA Recall No. :** 18V-716**Manufacturer Recall No. :** 2918J**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 : 394

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2010-2011 Mazda RX-8

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : These vehicles are MY2011 RX-8 registered in zone B and MY2010-2011 RX-8 registered in Zone C. The recall population was determined based on vehicle manufacturing records at Mazda Motor Corporation. Plant information; Mazda Motor Corporation. Each population by model year is as follows; MY2010 RX-8: 113 units. MY2011 RX-8: 281 units.

Production Dates : JUN 01, 2009 - APR 26, 2011

VIN Range 1 : Begin : JM1FE1C45A0403408 End : JM1FE1C23A0404829

 Not sequential

VIN Range 2 : Begin : JM1FE1R41B0404872 End : JM1FE1T21B0405723

 Not sequential

Description of Defect :

Description of the Defect : Under terms of the Amendment to November 3, 2015 Consent Order issued May 3, 2016, Takata is scheduled to submit Defect Information Report (DIR) #4 on non-desiccated frontal PSAN inflators at the end of 2018. Mazda has decided to submit DIR#4 at this time because replacement parts have become available earlier than anticipated. This submission adds affected vehicles under DIR#4 to the existing recall population covered by Mazda recalls, 16V354 (DIR#1), 17V011 (DIR#2) and 18V017 (DIR#3) which have been using desiccated PSAN inflators and 18V402 (DIR#1), 18V404 (DIR#2) and 18V403 (DIR#3), which are using non-PSAN inflators. For Zone B: MY2011 RX-8 vehicles are added. For Zone C: MY2010 and MY2011 RX-8 vehicles are added.

The PSPI 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 that can Occur : NR

Supplier Identification :**Component Manufacturer**

Name : TK Global LLC.

Address : 111 Peyerk Court Romeo
MICHIGAN

Country : United States

Chronology :

On May 3, 2016: As a result of testing and analysis conducted by Takata and independent research organizations, NHTSA concluded that non-desiccated Takata PSAN (phase-stabilized ammonium nitrate) inflator would reach threshold level of degradation, causing the inflator to become dangerous. Therefore, NHTSA ordered Takata to file phased DIRs, in accordance with the schedule set forth in the amendment to the Consent Order.

From May 16, 2016 to January 2, 2018; Mazda has submitted relevant recalls as DIR#1 through DIR#3, in accordance with three DIRs Takata submitted to NHTSA.

On September, 2018: The replacement parts using desiccated PSAN based propellant have become available for all subject vehicles to be remedied in DIR#4.

On October 9: Mazda decided to expand the recall. The following subject vehicles are added to the recall - MY 2011 RX-8 in Zone B and MY2010-MY2011 RX-8 in Zone C.

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 air bag inflator with modified one. The repair will be performed free of charge to the vehicle owners.

How Remedy Component Differs from Recalled Component : Recalled Parts Name: Air bag inflator manufactured by Takata. Part number: F1Z1-57K80.
The remedy parts are desiccated 'PSAN' air bag inflators manufactured by Takata.

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

Recall Schedule :

Description of Recall Schedule : A draft of the planned owner letter will be provided when it becomes available.

Planned Dealer Notification Date : OCT 12, 2018 - OCT 12, 2018

Planned Owner Notification Date : NOV 12, 2018 - NOV 12, 2018

* NR - Not Reported