

Part 573 Safety Recall Report

18V-403

Manufacturer Name : Mazda North American Operations**Submission Date :** JUN 24, 2019**NHTSA Recall No. :** 18V-403**Manufacturer Recall No. :** 2618F**Manufacturer Information :****Population :**

Manufacturer Name : Mazda North American Operations

Number of potentially involved : 239

Address : 1025 Connecticut Avenue, NW

Estimated percentage with defect : 1 %

Suite 910 Washington DC 20036

Company phone : 800-222-5500

Vehicle Information :

Vehicle 1 : 2009-2010 Mazda RX-8

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : (Amendment 3) Recall population determined by production records of vehicles not yet remedied under 18V017. These vehicles have moved from 18V017 to recall 18V403.

MY/Make/Model: MY 2009 through 2010 Mazda RX-8: 239 units.

Production Dates : MAR 11, 2008 - MAR 31, 2010

VIN Range 1 : Begin : JM1FE172390400043 End : JM1FE172190403362

 Not sequential

VIN Range 2 : Begin : JM1FE1CP1A0403416 End : JM1FE1C41A0404832

 Not sequential

Description of Defect :

Description of the Defect : June 24, 2019, This amendment is to move unrepaired MY 2009-2010 RX-8 vehicles under 18V017 to recall 18V403 because permanent remedy parts for RX-8 have become available. Accordingly, 18V017 will be closed as all subject vehicles have been remedied by use of the air bag inflator consisting of desiccated PSAN propellant. June 15, 2018: This submission is to replace existing recall 18V017 originally submitted on January 9, 2018 to manage recall action properly. On 18V017, the remedy was to replace the frontal passenger side air bag inflator with a Takata manufactured air bag inflator, PSPI-D, using desiccated phase- stabilized ammonium nitrate ("PSAN"). At present, an alternative air bag inflator using a non-PSAN based propellant will become available in the field. This new recall covers vehicles not yet repaired under 18V017. The improved air bag inflator is considered a permanent part and will be manufactured for the remedy on the remaining unrepaired vehicles. Following submission of this recall, Mazda intends to close 18V017 with the repaired vehicles covered.

This submission adds affected vehicles under Takata DIR#3 to the existing recall population covered by Mazda recalls 16V354 (DIR#1) and 17V011 (DIR#2). On January 2, 2018, Takata submitted Defect Information Report #3 under NHTSA Campaign Numbers "18E001 (Zone A)", "18E002 (Zone B)", and "18E003 (Zone C)" on non-desiccated frontal PSAN inflators. 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 : Takata / T K Holding INC.
Address : 888 16th street, NW, Suite 800
Washington DISTRICT OF COLUMBIA 20006
Country : United States

Chronology :

(Refer to Mazda's corresponding defect information report #16V354 for added details.) .

On January 2, 2018, Takata submitted Defect Information Report #3 (Reference #18E002 and 18E003) in accordance with the amended NHTSA Consent Order that requires DIR's to be filed in five phases covering vehicles with non-desiccated frontal PSAN inflators.

On January 9, 2018: On the basis of the Takata submitted DIR#3, Mazda held a Quality Audit Committee and decided to expand the recall. The following subject vehicles are added to the recall - MY 2009 RX-8 in Zone C, and MY 2010 RX-8 in Zone B.

On June 15, 2018; As permanent remedy, non-PSAN based inflators have become available, this submission replaces existing recall 18V017 originally submitted January 9, 2018 to manage recall action properly.

On July 2, 2018; Due to an indefinite delay for RX8 permanent remedy parts, RX-8 vehicles were temporarily moved back from this recall to 18V017, which was previous recall using the desiccated PSAN airbag inflator. Accordingly this recall, 18V403, was suspended for the time being.

On June 24, 2019: As for permanent remedy for RX-8 vehicles, since non-PSAN based inflators have become available, Mazda intends to resume recall by moving unrepaired MY2009-2010 RX-8 vehicles under 18V017 as the subject model of 18V403. Mazda discussed with NHTSA this transition plan and received approval from the agency. As part of the transition, remedy parts might not be available in certain dealers for a temporary period and in these cases, Mazda intends to offer free loaner vehicles to owners until permanent remedy parts become available. 18V017 will close once transition is completed to 18V403.

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: FE15 57K70, FE875 57K70, F1515 57K70.
The remedy part is an air bag inflator manufactured by a different parts supplier and confirmed to be free from phase-stabilized ammonium nitrate.

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

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on June 21, 2019. Mailing of owner notification letters is expected to be completed on or before July 9 2019.

Planned Dealer Notification Date : JUN 21, 2019 - JUN 21, 2019

Planned Owner Notification Date : JUL 09, 2019 - JUL 09, 2019

* NR - Not Reported