

Part 573 Safety Recall Report

18V-403

Manufacturer Name : Mazda North American Operations**Submission Date :** JUL 16, 2018**NHTSA Recall No. :** 18V-403**Manufacturer Recall No. :** 2618F**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 : 414

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2009-2010 Mazda RX-8

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : These vehicles are MY2009 RX-8 originally registered in Zone C and MY2010 RX-8 registered in zone B as defined by Takata's DIR #3 filing (Reference #18E002 and 18E003) on January 2, 2018. The recall population was determined based on vehicle manufacturing records at Mazda Motor Corporation. Plant information; Hiroshima plant of Mazda Motor Corporation in Japan.

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

VIN Range 1 : Begin : JM1FE172390400043 End : JM1FE172990403402

 Not sequential

VIN Range 2 : Begin : JM1FE1CP1A0403416 End : JM1FE1C41A0404832

 Not sequential

Description of Defect :

Description of the Defect : 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. These additional vehicles are MY2009 RX-8 originally registered in Zone C and MY 2010 RX-8 registered in zone B. The recall population was determined based on vehicle manufacturing records at Mazda Motor Corporation. Plant information; Hiroshima plant of Mazda Motor Corporation in Japan. 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.

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 : Mailing of owner notifications is planned to be completed as soon as possible, but no later than June 29, 2018.

Planned Dealer Notification Date : JUN 28, 2018 - JUN 28, 2018

Planned Owner Notification Date : JUN 29, 2018 - JUN 29, 2018

* NR - Not Reported