

Part 573 Safety Recall Report

17V-354

Manufacturer Name : Mazda North American Operations**Submission Date :** JUN 26, 2017**NHTSA Recall No. :** 17V-354**Manufacturer Recall No. :** 1017E**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 : 69,447

Estimated percentage with defect : NR

Vehicle Information :

Vehicle 1 : 2004-2008 Mazda RX-8

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

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

Production Dates : APR 10, 2003 - FEB 18, 2008

VIN Range 1 : Begin : JM1FE173540100053 End : JM1FE173340140891 Not sequentialVIN Range 2 : Begin : JM1FE173350140892 End : JM1FE173950161178 Not sequentialVIN Range 3 : Begin : JM1FE173760200013 End : JM1FE173660207471 Not sequentialVIN Range 4 : Begin : JM1FE173870207473 End : JM1FE173570214011 Not sequentialVIN Range 5 : Begin : JM1FE173580214012 End : JM1FE173980216619 Not sequential**Description of Defect :**

Description of the Defect : Mazda is recalling certain MY 2004-2008 RX-8 vehicles manufactured from April 10, 2003 through February 18, 2008. On the subject fuel pump module, due to insufficient durability performance of the fuel pump pipe, the strength of the fuel pump pipe may deteriorate by the heat from the engine and exhaust pipe. Therefore, continuous use may lead to eventual cracking of the fuel pump pipe and subsequent fuel leakage. Note that a saddle-type fuel tank is used with two pumps; one is used as the main fuel pump and the other for fuel transfer from the sub-tank. The main fuel pump is the subject of this campaign.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If there is an ignition source near the vehicle, fuel leakage may result in increased risk of fire.

Description of the Cause : NR

Identification of Any Warning NR
that can Occur :

Supplier Identification :

Component Manufacturer

Name : AISAN INDUSTRY
Address : Komugiyou 635-30
Nishihirose-cho, Toyota-shi, Aichi
Country : NR

Chronology :

November 22, 2007 Mazda received the first field report and started an investigation.

December 27, 2007 As a result of investigation of the returned part, it was found that a weld line was formed on the pipe during manufacture, and a crack had occurred at the weld line. However, the cause of the failure was not identified.

February 27, 2008 Mazda started to consider increasing the thickness of the pipe to prevent the weld line from forming on the pipe.

April, 2008 Mazda started to collect good parts from the field and investigated.

June 25, 2008 Mazda identified that the creep phenomenon was accelerated by heat and the crack was due to the weld line on the pipe. Because mass production was already finished, the ECN (engineering modification to increase of the thickness of the pipe) was released for remedy parts in the field.

March 20, 2009 Returned good parts from the field were tested in high temperature conditions and the investigation result showed that there was an infrequent failure occurrence rate. Therefore, the investigation was closed.

November 4, 2016 Mazda received a field report from Japan market. It stated that fuel leakage was confirmed during the remedy of the recall called "RX-8 Fuel Pump Sealing Rings may Leak Fuel" reported to the Japan authority on October 31, 2016 and opened an investigation.

December 14, 2016 As a result of the investigation of the returned parts, a creep-induced crack in the fuel pipe was confirmed.

January 20, 2017 Mazda received the first field report from U.S. market, detected during the remedy completion of NHTSA campaign 16V793 (RX-8 Fuel Pump Sealing Rings may Leak Fuel).

May 25, 2017 Mazda decided to conduct a recall for affected MY 2004-2008 RX-8 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 repair will be to replace the fuel pump filter kit with an improved one. The repair will be performed free of charge to vehicle owners.

How Remedy Component Differs from Recalled Component : NR

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 : JUL 15, 2017 - JUL 15, 2017

Planned Owner Notification Date : JUL 30, 2017 - JUL 31, 2017

* NR - Not Reported