

Part 573 Safety Recall Report**15V-674****Manufacturer Name :** Mazda North American Operations**Submission Date :** OCT 22,2015**NHTSA Recall No. :** 15V-674**Manufacturer Recall No. :** 8715J**Manufacturer Information :**

Manufacturer Name : Mazda North American Operations

Address : 1025 Connecticut Avenue, NW

Suite 910 Washington DC 20036

Company phone : 248-295-7859

Population :

Number of potentially involved : 1,368,500

Estimated percentage with defect : 0

Vehicle Information :

Vehicle : 1989-1998 Mazda MPV

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : The vehicles manufactured at Hiroshima plant of Mazda Motor Corporation.

Production Dates : APR 05, 1998 - NOV 25, 1998

VIN (Vehicle Identification Number) Range

| | | |
|---------------------------|-------------------------|--|
| Begin : JM2LV6212K0100025 | End : JM2LV6214K0120289 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5224K0100008 | End : JM3LV5224K0139584 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM2LV6211L0240391 | End : JM2LV6216L0248728 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5238L0200008 | End : JM3LV5239L0259049 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM2LV6211M0300011 | End : JM2LV6211M0349936 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5220M0300001 | End : JM3LV5229M0357037 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM2LV6210N0413191 | End : JM2LV6210N0454310 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5220N0400021 | End : JM3LV522XN0454877 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5226P0500014 | End : JM3LV5228P0536352 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5222R0600016 | End : JM3LV5228R0631965 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV522XS0700001 | End : JM3LV5230S0718452 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5227T0800008 | End : JM3LV5229T0816064 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV5227V0816065 | End : JM3LV5222V0831427 | <input type="checkbox"/> Not sequential VINs |
| Begin : JM3LV522XW0831452 | End : JM3LV5231W0849881 | <input type="checkbox"/> Not sequential VINs |

Vehicle : 1993-1995 Mazda Mazda929

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : The vehicles manufactured at Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : SEP 01, 1992 - APR 26, 1995

VIN (Vehicle Identification Number) Range

Begin : JM1HD4619P0202246 End : JM1HD4619P0216485 Not sequential VINs

Begin : JM1HD4612R0300005 End : JM1HD4616R0310245 Not sequential VINs

Begin : JM1HD4618S0400003 End : JM1HD4611S0404281 Not sequential VINs

Vehicle : 1992-1993 Mazda MX-3

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : The vehicles manufactured at Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : JUL 30, 1991 - AUG 19, 1993

VIN (Vehicle Identification Number) Range

Begin : JM1EC4329N0100039 End : JM1EC4323N0139676 Not sequential VINs

Begin : JM1EC4315P0200004 End : JM1EC4321P0238628 Not sequential VINs

Vehicle : 1990-1998 Mazda Protege

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : the manufactured vehicles at Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : MAY 09, 1989 - APR 13, 1998

VIN (Vehicle Identification Number) Range

Begin : JM1BG2245L0100065 End : JM1BG2261L0191224 Not sequential VINs

Begin : JM1BG2246M0200001 End : JM1BG226XM0311314 Not sequential VINs

Begin : JM1BG2249N0400016 End : JM1BG2240N0514485 Not sequential VINs

Begin : JM1BG2247P0550001 End : JM1BG2249P0655946 Not sequential VINs

Begin : JM1BG2240R0700002 End : JM1BG2249R0820395 Not sequential VINs

Begin : JM1BG2249S0830401 End : JM1BG2246S0839749 Not sequential VINs

Begin : JM1BA1418S0138919 End : JM1BA1416S0140359 Not sequential VINs

Begin : JM1BB1422T0313284 End : JM1BB1427T0365977 Not sequential VINs

Begin : JM1BC1429V0128326

End : JM1BC141XV0162556

 Not sequential VINs

Vehicle : 1990-1995 Mazda Mazda323

Vehicle Type : LIGHT VEHICLES

Body Style : HATCHBACK

Power Train : GAS

Descriptive Information : The manufactured vehicles at Hiroshima plant of Mazda Motor Corporation in Japan.

Production Dates : MAY 30, 1989 - APR 21, 1995

VIN (Vehicle Identification Number) Range

Begin : JM1BG2326L0100122

End : JM1BG2325L0191223

 Not sequential VINs

Begin : JM1BG2324M0200009

End : JM1BG2329M0311297

 Not sequential VINs

Begin : JM1BG2324N0400017

End : JM1BG2320N0510921

 Not sequential VINs

Begin : JM1BG2323P0550011

End : JM1BG2322P0654909

 Not sequential VINs

Begin : JM1BG2323R0700007

End : JM1BG2327R0820358

 Not sequential VINs

Begin : JM1BG2320S0832745

End : JM1BG2324S0838872

 Not sequential VINs

Vehicle : 1993-1998 Mazda Mazda626

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : The vehicles Manufactured at Auto Alliance International, USA.

Production Dates : SEP 01, 1992 - MAR 31, 1998

VIN (Vehicle Identification Number) Range

Begin : 1YVGE22A8P5130584

End : 1YVGE22B2P5247120

 Not sequential VINs

Begin : 1YVGE22C9R5100014

End : 1YVGE22D7R5215090

 Not sequential VINs

Begin : 1YVGE22C4S5300031

End : 1YVGE22D7S5431365

 Not sequential VINs

Begin : 1YVGE22C3T5500030

End : 1YVGE22D8T5589232

 Not sequential VINs

Begin : 1YVGE22CXV5592000

End : 1YVGE22D2V5682122

 Not sequential VINs

Begin : 1YVGF22C5W5100178

End : 1YVGF22D4W5757093

 Not sequential VINs

Vehicle : 1993-1997 Mazda MX-6

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : The manufactured vehicles at Auto Alliance International in USA.

Production Dates : SEP 01, 1992 - MAY 30, 1997

VIN (Vehicle Identification Number) Range

| | | |
|---------------------------|-------------------------|--|
| Begin : 1YVGE31B9P5000717 | End : 1YVGE31B5P5249869 | <input type="checkbox"/> Not sequential VINs |
| Begin : 1YVGE31D0R5100029 | End : 1YVGE31D2R5216915 | <input type="checkbox"/> Not sequential VINs |
| Begin : 1YVGE31DXS5308585 | End : 1YVGE31D9S5431388 | <input type="checkbox"/> Not sequential VINs |
| Begin : 1YVGE31C2T5507896 | End : 1YVGE31D0T5590298 | <input type="checkbox"/> Not sequential VINs |
| Begin : 1YVGE31C2V5611968 | End : 1YVGE31D1V5673418 | <input type="checkbox"/> Not sequential VINs |

Description of Defect :

Description of the Defect : On Oct 10, 2015; MX-6 vehicles has been added to the affected models. and Protege/323 vehicles has been divided into separately. The total amount of involved in this recall is 1368500 units.

Due to an excessive amount of grease at the contact points inside the ignition switch, the grease may carbonize and accumulate between the contact points, reducing the electrical insulation performance inside the switch. As a result, continuous use may lead the contact points to become conductive which can overheat the switch resulting in smoke, and in the worst case, a fire.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The switch may generate smoke, in the worst case, resulting in a fire.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Supplier Identification :**Component Manufacturer**

Name : U-SHIN LTD.

Address : Shiba-daimon 1-1-30, Minato, Tokyo Japan

FOREIGN STATES

Country : Japan

Chronology :

May, 2001 Mazda received a field report from the Japan market. The report said that short circuit occurred at the ignition switch and smoke was emitted, and starter continued running. However, we couldn't collect and investigate the switch and then we determined to continue monitoring the field.

April, 2002 Mazda received a field report with a fire from Japan market. However, Mazda determined to continue monitoring the field because this failure occurred because the vehicle continued running with ignition switch overrun.

March, 2008 As a result of the investigation of the failure switch, Mazda determined that insulation failure occurred due to grease accumulation if an excessive amount of grease was applied to the ignition switch, leading to a smoke and a short circuit resulting in engine stop.

October, 2010 Mazda believed that the excessive amount grease was due to grease injection in the field maintenance and decided to continue monitoring the field.

April 17, 2015: Mazda was requested to assess the switch assembly by the Japan authority regarding the affected ignition switch, as another manufacturer conducted a safety recall on the same type of ignition switch in Japan

October 12, 2015: Mazda has not been able to determine the source of the excessive grease (production or field maintenance)but understands there is a potential that this situation can result in the switch overheating and possibly resulting in a fire. Therefore, Mazda decided to conduct a safety recall campaign on the affected vehicles.

Description of Remedy :

Description of Remedy Program : For all the vehicle owners involved with the recall campaign, MNAO will notify them of the recall campaign. We will replace the ignition switch for free.

How Remedy Component Differs from Recalled Component : We have changed the grease used at the terminal of the ignition switch to the fluorine-based grease which is less susceptible to the formation of carbon.

Identify How/When Recall Condition was Corrected in Production : No countermeasure has been taken because mass production has already finished.

Recall Schedule :

Description of Recall Schedule : NR

Planned Dealer Notification Date : DEC 05, 2015 - DEC 05, 2015

Planned Owner Notification Date : DEC 15, 2015 - DEC 15, 2015

* NR - Not Reported