

Part 573 Safety Recall Report

19V-072

Manufacturer Name : Mazda North American Operations**Submission Date :** FEB 18, 2019**NHTSA Recall No. :** 19V-072**Manufacturer Recall No. :** 3019A**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 : 14,370

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2016-2019 Mazda MX-5

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : GAS

Descriptive Information : – Recall population was determined by the production record of vehicles which may have had the subject transmission control module installed.

– The products not included in this recall are equipped with improved transmission control module software.

– The following is the affected number by MY/Make/Model:

2016MY Mazda MX-5: 6,140 units

2017MY Mazda MX-5: 4,519 units

2018MY Mazda MX-5: 2,295 units

2019MY Mazda MX-5: 1,416 units

Production Dates : APR 20, 2015 - DEC 11, 2018

VIN Range 1 : Begin : JM1NDAC75G0100033 End : JM1NDAB77G0119894

 Not sequential

VIN Range 2 : Begin : JM1NDAM77H0100017 End : JM1NDAC75H0125192

 Not sequential

VIN Range 3 : Begin : JM1NDAC75H0125192 End : JM1NDAM79J0206202

 Not sequential

VIN Range 4 : Begin : JM1NDAB76K0300011 End : JM1NDAM74K0304295

 Not sequential**Description of Defect :**

Description of the Defect : In affected vehicles equipped with automatic transmissions, electrical noise in the range signal may be detected while driving in "D" range (including "Manual" mode). Due to inappropriate control logic of the clutch control software in the Transmission Control Module (TCM), this signal noise may cause the vehicle to unexpectedly downshift, causing an abrupt deceleration of the drive wheels.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A sudden decrease in the speed of the drive wheels while driving may negatively affect the directional stability of the vehicle, increasing the risk of a loss of vehicle control and potentially resulting in a crash. No crashes or injuries related to the subject condition have been reported to date.

Description of the Cause : Inappropriate control logic of the TCM software.

Identification of Any Warning that can Occur : The vehicle shifts down unexpectedly, causing an abrupt deceleration of the drive wheels.

Supplier Identification :

Component Manufacturer

Name : AISIN AW CO., LTD.

Address : 10, Takane, Fujii-cho, Anjo, Aichi
FOREIGN STATES

Country : Japan

Chronology :

September 5, 2016: Mazda received the first field report from the US market.

November 4, 2016: Mazda collected and investigated the inhibitor switch but the cause of the failure was not identified. Mazda began to monitor for further reports.

July 24, 2018: Mazda received a 2nd field report from the US market.

August 9, 2018: Mazda investigated the returned parts and the Onboard Data Recorder (ODR) data. As the result of the ODR analysis, when noise of the range signal is detected while driving in "D" range, it was confirmed that a driveline shock occurred along with deceleration of the vehicle.

September 7, 2018: Mazda noticed that there was a concern in the automatic transmission control program from the supplier.

January 24, 2019: Mazda held a Quality Audit Committee to review all available information to date and determined to conduct a field action on certain MY2016-2019 MX-5 vehicles.

Description of Remedy :

Description of Remedy Program : Owners will be notified by mail and instructed to take their vehicle to a Mazda dealer. Dealers will reprogram the TCM with improved software. There will be no charge for this service to vehicle owners.

How Remedy Component Differs from Recalled Component : Recalled Parts name: Transmission Control Module manufactured by AISIN AW CO., LTD.
Part number: PEFB-189E1, PSPD-189E1, and PAC6-189E1

Identify How/When Recall Condition was Corrected in Production : TCM software was corrected on November 17, 2018.

Recall Schedule :

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

Planned Dealer Notification Date : FEB 01, 2019 - FEB 01, 2019

Planned Owner Notification Date : MAR 29, 2019 - MAR 29, 2019

* NR - Not Reported