

Part 573 Safety Recall Report

24V-815

Manufacturer Name : Mazda North American Operations**Submission Date :** OCT 31, 2024**NHTSA Recall No. :** 24V-815**Manufacturer Recall No. :** 7024J**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 : 31,488

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2024-2024 Mazda CX-90

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

Descriptive Information : Recall population was determined by using production records of vehicles installed with affected powertrain control modules (PCM) and engine control modules (ECM). Vehicles not included in this recall have the updated software.

The following is the affected number of vehicles by MY/Make/Model:
 MY2024 Mazda CX-90 built at Mazda Motor Corporation in Japan: 26,533 units

Production Dates : DEC 27, 2022 - JUN 25, 2024

VIN Range 1 : Begin : JM3KKEHD8R1100045 End : JM3KKBHA8R1188230 Not sequential

Vehicle 2 : 2025-2025 Mazda CX-70

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

Descriptive Information : Recall population was determined by using production records of vehicles installed with affected powertrain control modules (PCM) and engine control modules (ECM). Vehicles not included in this recall have the updated software.

The following is the affected number of vehicles by MY/Make/Model:
 MY2025 Mazda CX-70 built at Mazda Motor Corporation in Japan: 4,955 units

Production Dates : DEC 05, 2023 - JUL 01, 2024

VIN Range 1 : Begin : JM3KJEHA8S1100013 End : JM3KJEHA4S1114068 Not sequential

Description of Defect :

Description of the Defect : Malfunction indicator lights may illuminate and loss of drive power may occur.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Loss of drive power may increase the risk of a crash.

Description of the Cause : Improper software in the PCM and ECM, under certain driving conditions, may cause malfunction indicator lights to illuminate, potentially activating a fail-safe mode that limits the drive power.

Identification of Any Warning that can Occur : If this defect occurs, the malfunction indicator lamp (MIL) will illuminate.

Involved Components :

Component Name 1 : PCM

Component Description : Powertrain control module

Component Part Number : PXRC/H301/H302-188K2

Component Name 2 : ECM

Component Description : Engine control modules

Component Part Number : MS05/MS06-186K2

Supplier Identification :**Component Manufacturer**

Name : Mitsubishi / Vehicle Energy

Address : 840 Chiyoda

Himeji, Hyogo Foreign States 670-8677

Country : Japan

Chronology :

March 10, 2023: Mazda received the first field report from outside the U.S. market and started an investigation.

March 11, 2023, ~ June 19, 2023: Mazda initiated an investigation, suspecting that the torque calculations may

be a possible source. On May 23, 2023, Mazda received the first field report from the U.S. market, prompting further investigation.

June 20, 2023: Mazda implemented a mass production change with improved software in the powertrain control modules (PCM) and engine control modules (ECM).

July 1, 2023 ~ July 31, 2024: Mazda subsequently received 15 more U.S. market field reports. During the course of the investigation, other conditions were identified in which this defect could occur.

January 10, 2024: Mazda implemented various mass production changes with additional improved software in the PCM and ECM.

January 24, 2024: NHTSA's Office of Defects Investigation (ODI) notified Mazda of certain VOQs and field reports received alleging a loss of motive power in Mazda CX-90 vehicles located in the United States. Multiple discussions were held from February to October informing ODI of Mazda's analysis of field information and ongoing investigations. Investigations included additional VOQs and field reports received during this period.

June 20, 2024, and July 1, 2024: Mazda implemented various mass production changes with additional improved software in the PCM and ECM.

July 2, 2024 ~ October 15, 2024: Mazda engaged in the final stages of an investigation aimed at assessing the affected markets and vehicle populations.

October 25, 2024: Mazda held a Quality Audit Committee meeting to review all available information to date and approved a field action on subject MY2024 CX-90 and MY2025 CX-70 vehicles.

As of October 25, 2024, Mazda is not aware of any reports of accidents or injuries related to this concern. Also, as of this date, 16 field reports have been received by the United States and its Territory markets.

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 PCM and ECM with improved software to resolve diagnostic trouble code ("DTC") P061B. The repair will be performed free of charge to vehicle owners.
A reimbursement program will not be offered as all vehicles are under full warranty coverage.

How Remedy Component Differs from Recalled Component : The remedy components contain improved software for certain unique driving conditions that may cause loss of drive power.

Identify How/When Recall Condition was Corrected in Production : The PCM and ECM with improved software were implemented on July 1, 2024, at the Mazda Motor Corporation vehicle assembly plant in Japan.

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on or before November 5, 2024. Mailing of owner notification letters is expected to be completed on or before December 30, 2024.

Planned Dealer Notification Date : NOV 05, 2024 - NOV 05, 2024

Planned Owner Notification Date : DEC 30, 2024 - DEC 30, 2024

* NR - Not Reported