

# Part 573 Safety Recall Report

# 20V-347

**Manufacturer Name :** Mazda North American Operations

**Submission Date :** JUN 12, 2020

**NHTSA Recall No. :** 20V-347

**Manufacturer Recall No. :** 4520F



## 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 :** 12,097

**Estimated percentage with defect :** 1 %

## Vehicle Information :

**Vehicle 1 :** 2020-2020 Mazda CX-30

**Vehicle Type :** LIGHT VEHICLES

**Body Style :**

**Power Train :** NR

**Descriptive Information :** – Recall population was determined by the production record of vehicles which may have the subject fuel tank installed.

– Similar vehicles not included in this recall are equipped with front-wheel drive drivetrains and a different fuel tank design which is not subject to the defect. Only vehicles with all-wheel drive drivetrains are included in the recall population.

The following is the affected number by MY/Make/Model: 2020MY Mazda CX-30 : 12,097 units

**Production Dates :** NOV 13, 2019 - MAR 24, 2020

**VIN Range 1 :** Begin : 3MVDMBBL2LM104188 End : 3MVDMBEM6LM137005  Not sequential

## Description of Defect :

**Description of the Defect :** Fuel may leak from charcoal canister vent at rear of vehicle.

**FMVSS 1 :** 301 - Fuel system integrity

**FMVSS 2 :** NR

**Description of the Safety Risk :** A leak from the canister in the presence of an ignition source may increase the risk of a fire. Additionally, the engine may stall while driving, increasing the risk of a crash.

**Description of the Cause :** On certain vehicles equipped with all-wheel drive, the fuel evaporative vent hose may not be connected to the fuel sender unit due to an improper manufacturing process at the fuel tank manufacturing plant. When fully refueling the vehicle, liquid fuel will eventually fill the charcoal canister, resulting in a leak.

**Identification of Any Warning :** A Malfunction Indicator Lamp (MIL) and warning messages in the Multi-

that can Occur : Information Display and Active Driving Display may notify the driver of a malfunction in the vehicle emissions system if this defect occurs.

## Involved Components :

Component Name 1 : Fuel tank

Component Description : Fuel tank

Component Part Number : DGJ4-42100/DGV4-42100/DGL4-42100

## Supplier Identification :

### Component Manufacturer

Name : TI Fluid Systems

Address : Av. Del Siglo #250, Int. 0, Ciudad Indus

Parque Industrial Millenium Parque Industrial Millenium FOREIGN STATES 78395

Country : Mexico

## Chronology :

February 26, 2020: Mazda received first field report of "fuel leak from the charcoal canister after refueling" from Canadian market. A dealership inspected the vehicle and found that the fuel evaporative vent hose in the fuel tank was not connected to the fuel sender unit. Mazda started an investigation with the fuel tank part supplier.

February 27, 2020: Mazda received a field report of "Engine stall while driving during delivery of the vehicle" From US market. The Mazda dealership found the issue was the same as the failure case in Canada. As a temporary countermeasure, the parts supplier conducted a manual confirmation that each fuel evaporative vent hose was fully connected, in addition to visual inspection of the final component using an X-ray device to as final confirmation.

March 10, 2020: As a result of the investigation at the fuel tank assembly plant, the part supplier found that an operator had not completed the hose connection process during assembly, and did not inspect the manufactured parts.

March 3 through March 15; As a permanent countermeasure, the parts supplier enhanced training of operators and modified the manufacturing equipment to error-proof the assembly process.

Middle of March 2020 through April 2020: Mazda investigated suitable methods to inspect vehicles in the field, and a reliable check method to identify unconnected vent hoses on vehicles was validated in April.

June 5, 2020: Mazda held a Quality Audit Committee meeting to review all available information to date and determined to conduct a proactive field action on certain MY2020 CX-30 vehicles. No accidents, injuries, or deaths have been reported as a result of this defect.

**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 inspect the fuel evaporative vent hose in the vehicle fuel tank. If the hose is found to be disconnected, dealers will connect the hose to the fuel sender unit and replace the charcoal canister with a new part. As subject models are covered under new vehicle warranty, a reimbursement program will not be offered.

How Remedy Component Differs from Recalled Component : Affected vehicles will be repaired by ensuring the fuel evaporative vent hose is properly connected inside the fuel tank. Recalled components: Fuel tank DGJ4-42100, DGV4-42100, DGL4-42100.

Identify How/When Recall Condition was Corrected in Production : Fuel tanks assembled with the improved manufacturing process were installed on vehicles at the assembly plant starting March 24, 2020.

**Recall Schedule :**

Description of Recall Schedule : Notification to dealers is expected to occur on or before June 17, 2020. Mailing of owner notification letters is expected to be completed on or before August 11, 2020.

Planned Dealer Notification Date : JUN 17, 2020 - JUN 17, 2020

Planned Owner Notification Date : AUG 11, 2020 - AUG 11, 2020

\* NR - Not Reported