

Part 573 Safety Recall Report

20V-469

Manufacturer Name : Ford Motor Company**Submission Date :** MAR 12, 2021**NHTSA Recall No. :** 20V-469**Manufacturer Recall No. :** 20S42**Manufacturer Information :**

Manufacturer Name : Ford Motor Company

Address : 330 Town Center Drive

Suite 500 Dearborn MI 48126-2738

Company phone : 1-866-436-7332

Population :

Number of potentially involved : 488,594

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2016-2018 Lincoln MKX

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Affected vehicles are equipped with suspect front brake jounce hoses. The recalled part was introduced into Ford Edge production on June 25, 2014 and was taken out of production on December 21, 2017. The recalled part was introduced into Lincoln MKX production on November 11, 2014 and was taken out of production on December 21, 2017.

125,503 2015 model year Edge vehicles are affected.

113,512 2016 model year Edge vehicles are affected.

132,830 2017 model year Edge vehicles are affected.

33,815 2018 model year Edge vehicles are affected.

45,989 2016 model year MKX vehicles are affected.

28,676 2017 model year MKX vehicles are affected.

8,269 2018 model year MKX vehicles are affected.

These vehicles are not produced in VIN order. Information as to the applicability of this action to specific vehicles can best be obtained by either calling Ford's toll-free line (1-866-436-7332) or by contacting a local Ford or Lincoln dealer who can obtain specific information regarding the vehicles from the Ford On-line Automotive Service Information System (OASIS) database.

Production Dates : NOV 11, 2014 - DEC 21, 2017

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2015-2018 Ford Edge

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

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Production Dates : JUN 25, 2014 - DEC 21, 2017

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : Affected vehicles have front brake jounce hoses that could rupture prematurely.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A ruptured front brake jounce hose will cause a progressive brake fluid leak. The driver may experience an increase in pedal travel together with a reduction in the rate of deceleration, increasing the risk of a crash.

Description of the Cause : A rupture in the front brake jounce hoses occurs from a consistent localized failure of the internal reinforcement braid due to cyclic fatigue via tensile/bending and torsional inputs during suspension and steering articulations. The rate of failure is proportional to the "work done" to the hose by the suspension and steering motion. It was discovered that only 88% of suspension articulation was utilized on the brake hose test rig during life testing.

Identification of Any Warning that can Occur : The driver may notice a change to the brake pedal feel and travel. The brake fluid warning indicator light will illuminate.

Involved Components :

Component Name 1 : Right Front Brake Hose

Component Description : Edge and MKX

Component Part Number : F2GC-2078-AD

Component Name 2 : Left Front Brake Hose

Component Description : Edge and MKX

Component Part Number : F2GC-2B557-AD

Component Name 3 : Right Front Brake Hose

Component Description : Edge and MKX

Component Part Number : F2GC-2078-AE

Component Name 4 : Left Front Brake Hose

Component Description : Edge and MKX

Component Part Number : F2GC-2B557-AE

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

January 2018: Ford approved service actions for specific populations of Edge vehicles in China and South America based on certain unique road/parking conditions and driving habits contributing to elevated rates of front brake jounce hose ruptures at a lower time in service. For the remainder of the global population of 2015-2018 MY Edge vehicles, the rate was low. Ford continued to monitor and investigate reports globally for vehicles not included in the prior service actions.

January 2018 – July 2020: As part of its ongoing investigation regarding the global performance of these vehicles and based on evaluation of complaint vehicles in the field, Engineering conducted extensive physical life cycle testing (full factorial Design of Experiments) to identify potential contributors to front brake hose rupture. This testing found that vehicles subjected to frequent full suspension and steering articulations (jounce and rebound), could potentially experience a front brake jounce hose failure. Analysis based on field data indicates that these vehicles operated in the U.S. may have a low but increasing rate of front brake jounce hose ruptures during their anticipated useful life.

On August 3, 2020, Ford's Field Review Committee reviewed the concern and approved a field action.

Ford is not aware of any reports of accident or injury related to this condition.

March 12, 2021: Ford revised the Owner Letter mailing date in the Recall Schedule.

Description of Remedy :

Description of Remedy Program : Owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to replace the front brake jounce hoses with the new hoses that have a revised braid material. There will be no charge for this service.

Ford provided the general reimbursement plan for the cost of remedies paid for by vehicle owners prior to notification of a safety recall in February 2019. The ending date for reimbursement eligibility is September 18, 2020.

Ford will forward a copy of the notification letters to dealers to the agency when available.

How Remedy Component Differs from Recalled Component : The remedy hoses have a different material braid that is more robust to the work done on the hose. New hose part numbers are as follows:

Edge/MKX Right Front Hose: J2GC-2078-AA
Edge/MKX Left Front Hose: J2GC-2B557-AA

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on August 11, 2020. Mailing of owner notification letters is expected to begin September 14, 2020 and is expected to be completed by September 18, 2020.

March 12, 2021 Update: Mailing of owner notification letters was completed September 14, 2020 advising owners that parts are anticipated to be available in the third quarter of 2020. Unfortunately parts have been delayed. Due to the COVID pandemic, the brake hose supplier has experienced unforeseen Tier 2 capacity constraints as several components required to manufacture the brake hoses are no longer available. Those components had to be resourced. Additionally, there has been a nationwide shortage of DOT4 brake fluid since December 2020, as a result of ISO container shortages and carrier capacity, also due to COVID. As a result of these unanticipated delays mailing of follow up owner notification letters advising owners that parts are available is expected to be completed in early May. We expect to send NHTSA a draft owner letter for review on or about April 15, 2021.

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

Planned Owner Notification Date : SEP 14, 2020 - SEP 18, 2020

* NR - Not Reported