

Part 573 Safety Recall Report

23V-342

Manufacturer Name : Ford Motor Company**Submission Date :** NOV 13, 2023**NHTSA Recall No. :** 23V-342**Manufacturer Recall No. :** 23S23**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 : 443,447

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2023 FORD EXPLORER

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : This condition affects certain Explorer vehicles equipped with the 360-degree camera; units with the rearview camera only are not affected. The recalled part was introduced into production on 10/19/2018 and was taken out of production on 08/20/2023. 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. 329,131 Explorer vehicles are affected

Production Dates : OCT 19, 2018 - AUG 20, 2023

VIN Range 1 : Begin :

NR

End : NR Not sequential

Vehicle 2 : 2020-2023 LINCOLN AVIATOR

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : This condition affects certain Aviator vehicles equipped with the 360-degree camera; units with the rearview camera only are not affected.

The recalled part was introduced into production on 10/19/2018 and was taken out of production on 08/23/2023.

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. 82,832 Aviator vehicles are affected.

Production Dates : OCT 19, 2018 - AUG 23, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2020-2022 LINCOLN CORSAIR

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : This condition affects certain Corsair vehicles equipped with the 360-degree camera; units with the rearview camera only are not affected.

The recalled part was introduced into production on 01/07/2019 and was taken out of production on 12/15/2022.

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. 30,484 Corsair vehicles are affected.

Production Dates : JAN 07, 2019 - DEC 15, 2022

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : Customers may intermittently experience either a rear camera blue image or a full blue or black image on the SYNC screen when the vehicle is placed in reverse, or when the 360-degree view is selected and available (during low-speed operation).

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Loss of rear camera image while in reverse increases the risk of a crash

Description of the Cause : Depending on the camera vehicle system, 3 causal factors can affect rate of defect: camera hardware, wiring retention, and IPMB software. Within the camera, fretting corrosion causes tin oxide formation on the internal camera connector due to thermally induced micro-movement between the tin-plated contact surfaces. The rate of tin oxide accumulation in the connector is dependent on environmental factors like temperature and humidity. Additionally, internal connector misalignment may occur during manufacturing process and lead to permanent contact deformation. Both of these hardware root causes may result in degraded circuit continuity at the rearview camera's internal coaxial connector resulting in a loss of video frames.

Rearview camera circuit integrity may be influenced by the specific vehicle wiring retention strategy.

When a loss of video frames in the Valeo Image Processing Module – B (IPMB) occurs during the reinitialization process or when the cameras enter sleep mode during re-initialization process, the IPMB software version IT 18.1 is susceptible to displaying a blue image or a full blue or black screen when the vehicle begins a backing event.

Identification of Any Warning that can Occur : None

Involved Components :

Component Name 1 : CMR RR FAC VEH DTCT

Component Description : Explorer and Aviator Rear View Camera

Component Part Number : JL7T-19G490-D*

Component Name 2 : CMR RR FAC VEH DTCT

Component Description : Corsair Rear View Camera

Component Part Number : LJ7T-19G490-BA

Component Name 3 : IPMB Software (version IT18.1)

Component Description : Aviator, Corsair, and Explorer IPMB Software

Component Part Number : LB5T-14F017-A*

Supplier Identification :

Component Manufacturer

Name : Magna

Address : 2050 Auburn Rd.

Auburn Hills Michigan 48326

Country : United States

Chronology :

Chronology is provided as an attachment.

See attachment 2023-11-13 23S23 Amendment 3 Chronology.

Description of Remedy :

Description of Remedy Program : When parts are available, owners will be notified by mail and instructed to take their vehicle to a Ford or Lincoln dealer to have the rearview camera replaced and receive an Image Processing Module – B (IPMB) software update. Explorer and Aviator vehicles will also receive a wire harness strain relief update.

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 May 2021. The ending date for reimbursement eligibility is estimated to be June 30, 2024.

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

How Remedy Component Differs : The remedy camera (JL7T-19G490-DD for Explorer and Aviator;

from Recalled Component : LJ7T-19G490 BB for Corsair) will have a gold-plated internal connector and improved connector alignment. The IPMB software update (LB5T-14F017-BA - version IT20) will trigger a 1.2 second reinitialization of the camera in case a loss of video frames is detected instead of a persistent blue or black image. Vehicles that do not have robust strain relief on the camera wiring will be updated.

Identify How/When Recall Condition was Corrected in Production : Not required per 49 Part 573.

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on October 23, 2023. Mailing of owner notification letters is expected to begin November 24, 2023 and is expected to be completed by December 4, 2023. Due to part constraints on the Corsair camera, notification to dealers and customers is under development at this time.

Planned Dealer Notification Date : OCT 23, 2023 - OCT 28, 2023

Planned Owner Notification Date : NOV 24, 2023 - DEC 04, 2023

* NR - Not Reported