

Part 573 Safety Recall Report

23V-598

Manufacturer Name : Ford Motor Company**Submission Date :** AUG 25, 2023**NHTSA Recall No. :** 23V-598**Manufacturer Recall No. :** 23S48**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 : 169,277

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2023 LINCOLN AVIATOR

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : The recalled part was introduced into production on 10/19/2018 and was taken out of production on 08/17/2023.

This condition affects certain Aviator vehicles equipped with the standard rearview camera; units with the optional 360-degree camera system are not 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.

Volume Affected: 7649 Vehicles

Production Dates : OCT 19, 2019 - AUG 17, 2023

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2018-2021 LINCOLN NAVIGATOR

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : The recalled part was introduced into production on 03/16/2017 and was taken out of production on 12/23/2021.

This condition affects certain Navigator vehicles equipped with the 360-degree camera system.

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.

Volume Affected: 70,600 Vehicles

Production Dates : MAR 16, 2017 - DEC 23, 2021

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 3 : 2022-2023 FORD TRANSIT

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : The recalled part was introduced into production on 02/26/2021 and was taken out of production on 08/17/2023.

This condition affects certain Transit vehicles equipped with the 360-degree camera system and vehicles

equipped with a digital Rearview Camera System.

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.

Volume Affected: 66,740 Vehicles

Production Dates : FEB 26, 2021 - AUG 17, 2023

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2021-2021 FORD BRONCO
Vehicle Type : LIGHT VEHICLES
Body Style :
Power Train : NR

Descriptive Information : The recalled part was introduced into production on 09/23/2020 and was taken out of production on 12/22/2021.

This condition affects certain Bronco vehicles equipped with the optional 360-degree camera system. Units with the standard rearview camera only are not 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.
Volume Affected: 24,468 Vehicles

Production Dates : SEP 23, 2020 - DEC 22, 2021

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, three (3) causal factors can affect rate of defect: camera hardware, wiring retention, and Image Processing Module – B (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 the 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.

For the Transit vehicle with 360 View feature, when a loss of video frames in the Valeo IMPB occurs during the re-initialization 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 : Aviator Digital Rearview Camera

Component Part Number : LC5T-19G490-AD

Component Name 2 : CMR RR FAC VEH DTCT

Component Description : Transit 360 View - Digital Rearview Camera

Component Part Number : NK4T-19G490-AA

Component Name 3 : CMR RR FAC VEH DTCT

Component Description : Transit Digital Rearview Camera

Component Part Number : NK4T-19G490-CA

Component Name 4 : CMR RR FAC VEH DTCT

Component Description : Transit Digital Rearview Camera

Component Part Number : NK4T-19G490-DA

Component Name 5 : CMR RR FAC VEH DTCT

Component Description : Navigator 360 View- Digital Rearview Camera

Component Part Number : JL7T-19G490-DB

Component Name 6 : CMR RR FAC VEH DTCT

Component Description : Bronco Digital Rearview Camera

Component Part Number : M2DT-19G490-BA

Component Name 7 : IPMB Software (version IT18.1)

Component Description : Transit 360 View IPMB

Component Part Number : LB5T-14F017-AY

Supplier Identification :

Component Manufacturer

Name : Magna

Address : 2050 Auburn Rd.

Auburn Hills Michigan 48236

Country : United States

Chronology :

See attachment: 2023-08-25 23S48 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. Some Transit vehicles will also receive an Image Processing Module – B (IPMB) software update. Vehicles that do not have robust strain relief on the camera wiring will be updated. 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 from Recalled Component :

The remedy camera (LC5T-19G490-AF for Aviator with Digital Rearview Camera, NK4T-19G490-AB for Transit with 360 View, NK4T-19G490-CD/DD for Transit with Digital Rearview Camera, JL7T-19G490-DD for Navigator, M2DT-19G490-BB for Bronco) will have a gold plated internal connector and improved connector alignment. The Transit vehicles equipped with a 360-degree camera system will receive an IPMB software update (LB5T-14F017-BA) which will prevent a persistent blue or black rearview camera image by triggering a 1.2 second re-initialization of the camera in case a loss of video frames is detected.

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 2, 2023. Mailing of owner notification letters is expected to begin October 2, 2023, and is expected to be completed by October 6, 2023.

Planned Dealer Notification Date :

OCT 02, 2023 - OCT 06, 2023

Planned Owner Notification Date :

OCT 02, 2023 - OCT 06, 2023

* NR - Not Reported