U.S. Department of Transportation

National Highway Traffic Safety Administration

Part 573 Safety Recall Report 25V488

Manufacturer Name: Ford Motor Company
Submission Date: Jul 25, 2025
NHTSA Recall No.: 25V488
Manufacturer Recall No.: 25S77

Manufacturer Information

Manufacturer Name: Ford Motor Company
Address: 330 Town Center Drive
Suite 500
Dearborn MI, 48126-2738

Population

Total number of potentially involved: 312,120
Estimated percentage with defect: 1%

Vehicle Information

Vehicle 1: 2025-2025 LINCOLN NAVIGATOR
Product Category: Light Vehicles
Product Type: Multipurpose Passenger Vehicle
Fuel / Propulsion:
Production Dates: Nov 09, 2023 - Jun 09, 2025
Number of potentially involved: 7,104
Descriptive Information:

Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. The Ford process is capable of tracing Electronic Brake Booster (EBB) production to the vehicle in which the EBB is installed. Affected vehicles are equipped with suspect EBB modules.

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.

7,104 Lincoln Navigator vehicles are affected.

Vehicle 2: 2025-2025 FORD RANGER
Product Category: Light Vehicles
Product Type: Light Truck
Fuel / Propulsion:
Production Dates: Feb 05, 2024 - Jun 20, 2025
Number of potentially involved: 20,552
Descriptive Information:

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20,552 Ford Ranger vehicles are affected.

Vehicle 3: 2025-2025 FORD BRONCO

Product Category: Light Vehicles

Product Type: Multipurpose Passenger Vehicle

Fuel / Propulsion:

Production Dates: May 31, 2024 - Jun 17, 2025

Number of potentially involved: 39,913

Descriptive Information:

Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. The Ford process is capable of tracing Electronic Brake Booster (EBB) production to the vehicle in which the EBB is installed. Affected vehicles are equipped with suspect EBB modules.

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.

39,913 Ford Bronco vehicles are affected.

Vehicle 4: 2025-2025 FORD EXPEDITION

Product Category: Light Vehicles

Product Type: Multipurpose Passenger Vehicle

Fuel / Propulsion:

Production Dates: Nov 08, 2023 - Jun 09, 2025

Number of potentially involved: 26,582

Descriptive Information:

Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. The Ford process is capable of tracing Electronic Brake Booster (EBB) production to the vehicle in which the EBB is installed. Affected vehicles are equipped with suspect EBB modules.

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.

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26,582 Ford Expedition vehicles are affected.

Vehicle 5: 2025-2025 FORD F-150

Product Category: Light Vehicles

Product Type: Light Truck

Fuel / Propulsion:

Production Dates: May 08, 2024 - Jun 09, 2025

Number of potentially involved: 217,969

Descriptive Information:

Ford's team reviewed supplier process and maintenance records to determine the population of affected parts. The Ford process is capable of tracing Electronic Brake Booster (EBB) production to the vehicle in which the EBB is installed. Affected vehicles are equipped with suspect EBB modules.

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.

217,969 Ford F-150 vehicles are affected.

Defect / Noncompliance Description

Description of the defect or noncompliance:

The Electronic Brake Booster (EBB) module may enter into a faulted state while driving, resulting in a loss of brake boost until the EBB module completes a sleep cycle when the vehicle is off. This faulted state can also occur when the driver is utilizing an Advanced Driver Assistance System (ADAS) feature.

FMVSS1:

FMVSS2:

Description of the safety risk, including crash, fire, death, injury:

An unexpected loss of brake boost while driving can result in increased stopping distance, which increases the risk of a crash. If a loss of boost occurs during an ADAS request for braking, this can increase the risk of a crash.

Description of the cause:

The EBB motor is susceptible to normal but infrequent voltage disturbances. A voltage drop and recovery can lead to a momentary current surge exceeding the EBB module over-current monitoring limits, causing the EBB motor to shut down.

Identification of any warning that can occur:

At the time of boost loss, the Anti-lock Brake System (ABS), Electronic Stability Control (ESC), and

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Brake cluster telltales will illuminate, informational messages will be cyclically displayed in the instrument cluster, and an audible alert will sound. A loss of brake boost can cause a change in brake pedal feel and increased pedal travel.

Component Manufacturer

Tier of Supplier: Tier 1

Supplier Type: Other

Name: Robert Bosch LLC

Address: 15000 Haggerty Road
Plymouth MI, 48170

Country: United States

Involved Components

Component Name 1: BRK ASY ELE BST

Component Description: Electric Brake Booster – Ford Bronco

Component Part Number: SB3C-2D335-** and SB3V-2D335-**

Component Name 2: BRK ASY ELE BST

Component Description: Electric Brake Booster – Ford Ranger

Component Part Number: RB3C-2D335-G*

Component Name 3: BRK ASY ELE BST

Component Description: Electric Brake Booster – Ford F-150

Component Part Number: SL34-2D335-A* and SL38-2D335-A*

Component Name 4: BRK ASY ELE BST

Component Description: Electric Brake Booster – Ford Expedition / Lincoln Navigator

Component Part Number: RL1C-2D335-B*

Chronology

On **May 22, 2025**, an issue pertaining to a loss of brake boost was brought to Ford's Critical Concern Review Group (CCRG) for review.

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On May 14, 2025, the Expedition/Navigator Rapid Response Team (RRT) identified a vehicle exhibiting a loss of brake boost. The incident occurred on a Ford Management Lease Vehicle (MLV) and triggered a Diagnostic Trouble Code (DTC).

From May to June 2025, Ford utilized the Connected Vehicle (CV) database to identify vehicles setting the associated DTC and reviewed data logs from the time of the incidents. Further review of reports associated with vehicles experiencing this condition as well as conversations with MLV drivers who experienced this condition showed a consistent customer experience of unexpected loss of brake boost and extended brake pedal travel and stopping distance. Ford's CCRG reviewed Federal Motor Vehicle Safety Standards (FMVSS) related to inoperative brake power units and malfunction notifications and determined that vehicles experiencing this condition remain compliant to FMVSS 135, 105 and 126.

As of July 11, 2025, Ford is aware of 37 warranty claims, received between March 13, 2025, and June 26, 2025, associated with this concern.

On **July 18, 2025,** Ford's Field Review Committee reviewed the concern and approved a field action.

As of July 14, 2025, Ford is aware of one alleged low speed crash related to this concern. Ford is not aware of any injuries or fires associated with this concern.

Related NHTSA Recall Number:

Description of Remedy

Remedy Type: Repair, Software, Software OTA

Consumer Advisories: ☐ Do Not Drive ☐ Park Outside

Description of remedy program:

The remedy for this program is an EBB module software update. Ford is anticipated to begin Ford Software Update or Lincoln Software Update Over-The-Air (OTA) deployment to update the EBB module software for affected vehicles in August 2025. Alternatively, owners will have the option to take their vehicle to a Ford or Lincoln dealer to complete the software update. There will be no charge for this service.

How remedy component differs from recalled component:

The EBB module software update will correct the module's response to normal but infrequent voltage disturbances and ensure that brake boost capability is maintained under these conditions.

Identify how/when recall condition was corrected in production:

Not required per 49 Part 573.

Reimbursement Plan

Manufacturer used general reimbursement plan on file.

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Recall Schedule

Description of recall schedule:

Notification to dealers is expected to occur on August 11, 2025. Mailing of remedy owner notification letters is expected to begin August 25, 2025, and is expected to be completed by August 29, 2025. The date VINs are planned to be searchable is July 28, 2025.

Planned Dealer Notification Date: Aug 11, 2025 - Aug 15, 2025 ☐ No Dealers

Planned Interim Owner Notification Date: ☐ No Owners

Planned Remedy Owner Notification Date: Aug 25, 2025 - Aug 29, 2025 ☐ Phased Recall

Date when VIN will be searchable: Aug 25, 2025