

# Part 573 Safety Recall Report

## 20V-175

**Manufacturer Name :** Ford Motor Company

**Submission Date :** APR 29, 2020

**NHTSA Recall No. :** 20V-175

**Manufacturer Recall No. :** 20S13



### 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 : 2,871

Estimated percentage with defect : 7 %

### Vehicle Information :

Vehicle 1 : 2021-2021 Ford E-Series (E-350 and E-450)

Vehicle Type : LIGHT VEHICLES

Body Style : OTHER

Power Train : NR

**Descriptive Information :** This condition affects 2021 Model Year E-Series incomplete vehicles produced between May 11, 2019 and January 30, 2020. Vehicles produced during this time may have frame mounted wire harnesses that could chafe on the frame and become damaged over time.

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 : MAY 11, 2019 - JAN 30, 2020

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

### Description of Defect :

**Description of the Defect :** A wire harness in the rear of the vehicle may contact the vehicle frame, resulting in wiring damage. This wire harness includes circuits that support the fuel pump and the anti-lock braking system.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** Damage to the fuel pump circuit in the wiring harness could result in an unexpected engine stall without warning while driving. An engine stall while driving without warning or the ability to restart, can increase the risk of crash.

Description of the Cause : Damage to this circuit in the wiring harness can also cause limited anti-locking brake system (ABS) functionality and loss of roll stability control (RSC) functionality, increasing the risk of a crash.

Identification of Any Warning that can Occur : The wire harness in the suspect location has insufficient protective covering to prevent abrasion from contact with the frame.

Depending on the circuit(s) affected, the following telltales will illuminate:

- 1) Check Engine Malfunction Indicator Lamp
- 2) Anti-Lock Brake System Warning Lamp and Traction Control Indicator Lamp

## Involved Components :

Component Name 1 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 138" Wheelbase

Component Part Number : LC24-14406-AE

Component Name 2 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 138" Wheelbase

Component Part Number : LC24-14406-BE

Component Name 3 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 158" Wheelbase

Component Part Number : LC24-14406-CE

Component Name 4 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 158" Wheelbase

Component Part Number : LC24-14406-DE

Component Name 5 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 158" Wheelbase

Component Part Number : LC24-14406-EE

Component Name 6 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 158" Wheelbase

Component Part Number : LC24-14406-FE

Component Name 7 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 176" Wheelbase

Component Part Number : LC24-14406-GE

Component Name 8 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 176" Wheelbase

Component Part Number : LC24-14406-HE

Component Name 9 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 176" Wheelbase

Component Part Number : LC24-14406-JD

Component Name 10 : Wire Assembly - Fuel Tank SDR

Component Description : Frame Harness - 176" Wheelbase

Component Part Number : LC24-14406-KD

### Supplier Identification :

#### Component Manufacturer

Name : APTIV

Address : 5725 Innovation Dr.  
Troy MICHIGAN 48098

Country : United States

### Chronology :

February – March

An issue concerning potential frame mounted wire harness damage on 2021MY E-Series was brought into Ford's Critical Concern Review Group (CCRG) for review. A vehicle at Ford's Ohio Assembly Plant was observed with an anti-lock braking system (ABS) telltale illuminated. Upon inspection of the vehicle it was found that the wire harness containing the rear wheel speed sensor circuits was damaged.

Upon investigation it was determined that a localized section of wire harness in the rear of the vehicle exhibited damage from frame contact. The wire harness bundle also contains circuits for the fuel pump, fuel system pressure transducer and the frame ground. A vehicle audit was conducted and found variability in the wire harness routing, with some vehicles exhibiting a close clearance or touch condition between the harness and the frame. An evaluation of the harness protective material found it not to be robust to a chafe condition in this area of the frame in certain conditions. A loss of one or more of these circuits due to a short or open circuit could result in a stall while driving without warning and/ or a loss of ABS and RSC.

On March 16, 2020, Ford's Field Review Committee reviewed the concern and approved a field action.

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

## 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 have the wire harness inspected for damage in the suspect area located on the left side in front of the fuel tank. If no damage is found, the technician will apply anti-abrasion tape over the area and ensure clearance to surrounding components. If damage is identified, technicians will follow the standard Workshop Manual (WSM) Repair procedure to slice in new wire and apply anti-abrasion tape over the area and ensure clearance to surrounding components. There will be no charge for this service.

Ford is excluding reimbursement for costs because the original warranty program would provide for a free repair for this concern.

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 procedure provides additional protection on the existing wire harness in an area of the routing that may contact the frame.

**Identify How/When Recall Condition was Corrected in Production :** Vehicles produced after January 30, 2020 have been inspected and had wire harness protective covering installed in the area of concern.

## Recall Schedule :

**Description of Recall Schedule :** Notification to dealers is expected to occur on March 24, 2020. Mailing of owner notification letters is expected to begin May 18, 2020 and is expected to be completed by May 22, 2020.

**Planned Dealer Notification Date :** MAR 24, 2020 - MAR 24, 2020

Planned Owner Notification Date : MAY 18, 2020 - MAY 22, 2020

\* NR - Not Reported