

Part 573 Safety Recall Report

18V-392

Manufacturer Name : Ford Motor Company**Submission Date :** JUN 12, 2018**NHTSA Recall No. :** 18V-392**Manufacturer Recall No. :** 18S17**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 : 5,645

Estimated percentage with defect : NR

Vehicle Information :

Vehicle 1 : 2018-2018 Ford Expedition

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Affected vehicles with 3.5L GTDI V6 engines may have high pressure fuel pumps with misaligned welds. The Ford team reviewed the supplier's processes and maintenance records to determine the population of affected engines. Ford's process is capable of tracing engines with suspect fuel pumps to the vehicle in which it is installed.

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 : MAR 14, 2018 - APR 12, 2018

VIN Range 1 : Begin : NR

End : NR

 Not sequential

Vehicle 2 : 2018-2018 Lincoln Navigator

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Affected vehicles with 3.5L GTDI V6 engines may have high pressure fuel pumps with misaligned welds. The Ford team reviewed the supplier's processes and maintenance records to determine the population of affected engines. Ford's process is capable of tracing engines with suspect fuel pumps to the vehicle in which it is installed.

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Information System (OASIS) database.

Production Dates : FEB 20, 2018 - MAY 06, 2018

VIN Range 1 : Begin : NR End : NR

Not sequential

Vehicle 3 : 2018-2018 Ford F150

Vehicle Type : LIGHT VEHICLES

Body Style : PICKUP TRUCK

Power Train : GAS

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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 : MAR 14, 2018 - APR 24, 2018

VIN Range 1 : Begin : NR End : NR

Not sequential

Description of Defect :

Description of the Defect : In the affected vehicles, the high pressure fuel pump assembly may have inadequate welds between the pump housing and its mounting flange. As a result, the fuel pump welds in these vehicles may be susceptible to high cycle fatigue fractures. A weld fracture at this location could cause the fuel pump to move relative to its mounting flange, resulting in eventual loss of the sealing integrity of the cam cover or the fuel lines and an oil or fuel leak.

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

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A fuel leak in the presence of an ignition source may increase the risk of fire.

Description of the Cause : The fuel pump supplier's laser weld fixture for the pump's housing-to-flange joint became misaligned, yielding welds with reduced integrity.

Identification of Any Warning that can Occur : Internal Ford testing has shown that pump movement prior to a leak may cause a drop in fuel pressure and result in vehicle drivability symptoms. If the low fuel pressure persists, the "Service Engine Soon" indicator light may illuminate in the cluster.

Supplier Identification :

Component Manufacturer

Name : Robert Bosch LLC
Address : 38000 Hills Tech Drive
Farmington Hills MICHIGAN 48331
Country : United States

Chronology :

May 2018: Ford's Critical Concern Review Group (CCRG) reviewed an issue regarding high-pressure fuel pumps that were welded with a misaligned laser. The suspect welds join the fuel pump body to a flange that bolts the pump assembly to the engine. The issue was discovered by the pump supplier on another OEM's application during a quality audit test. The supplier then informed Ford that this concern potentially affected pumps built between March 5th and March 13th and produced for Ford applications. Physical component testing for Ford applications was initiated and indicated that the suspect pump assemblies used on 3.5L GTDI V6 powertrains did not comply with the supplier's lifetime durability requirements. Similarly, component and subsystem level computer simulations confirmed larger stress concentrations for the pump application.

On June 4, 2018, Ford's Field Review Committee reviewed the concern and approved a field action.

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 high pressure fuel pump, high pressure fuel discharge tube, and high pressure pump and discharge tube mounting bolts replaced. 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 : Recalled vehicles will be serviced with a replacement high pressure fuel pump, high pressure fuel discharge tube, and high pressure pump and discharge tube mounting bolts from certified stock.

Identify How/When Recall Condition was Corrected in Production : All vehicles not included in this recall have high pressure pumps welded to design specification.

Recall Schedule :

Description of Recall Schedule : Notification to dealers is expected to occur on June 12, 2018. Mailing of

owner notification letters is expected to begin July 16, 2018 and is expected to be completed by July 20, 2018.

Planned Dealer Notification Date : JUN 12, 2018 - JUN 12, 2018

Planned Owner Notification Date : JUL 16, 2018 - JUL 20, 2018

* NR - Not Reported