

**Part 573 Safety Recall Report****15V-175****Manufacturer Name :** Ford Motor Company**Submission Date :** MAR 23,2015**NHTSA Recall No. :** 15V-175**Manufacturer Recall No. :** 15S09**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 : 6,322

Estimated percentage with defect : 0

**Vehicle Information :**

Vehicle : 2011-2015 Ford F-350

Vehicle Type :

Body Style :

Power Train : DIESEL

Descriptive Information : Affected vehicles are Ambulance or Fire Engine Prep Packages.

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 : FEB 22, 2010 - JAN 30, 2015

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2011-2015 Ford F-450

Vehicle Type :

Body Style :

Power Train : DIESEL

Descriptive Information : Affected vehicles are Ambulance or Fire Engine Prep Packages.

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 : FEB 22, 2010 - JAN 30, 2015

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2011-2015 Ford F-550

Vehicle Type :

Body Style :

Power Train : DIESEL

Descriptive Information : Affected vehicles are Ambulance or Fire Engine Prep Packages.

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 : FEB 22, 2010 - JAN 30, 2015

**VIN (Vehicle Identification Number) Range**

Begin : NR

End : NR

Not sequential VINs

**Description of Defect :**

Description of the Defect : Certain 2011-2015 F-350/450/550 Ambulance and Fire Engine prep package vehicles may detect an Exhaust Gas Temperature Sensor (EGT) fault that results in an incorrect EGT sensor over temperature indication. An over temperature indication can result in implementation of a Failure Mode Effects Management (FMEM) mode that could result in delayed patient care.

Description of the Safety Risk : Ford believes that a unique condition exists for ambulance and fire engine prep package vehicles when an FMEM caused by an EGT sensor fault can ultimately lead to an engine shut down and subsequent inability to quickly restart. If this condition were to occur when an ambulance or fire engine vehicle was transporting a patient or providing medical assistance, the eventual engine shut down and subsequent cool down period may delay medical treatment and increase the risk of injury to the patient

Description of the Cause : NR

Identification of Any Warning that can Occur : The operator will hear an audible chime that sounds five times while a "Stop Safely Now" message in the instrument cluster is illuminated. The "wrench light" in the instrument cluster also illuminates. Engine torque is gradually reduced by 70 percent over a period of 45 seconds to a power-reduced level that is maintained, allowing the operator to maneuver the vehicle to a safe location. During this time the vehicle remains fully controllable and there is no effect on steering, braking, lighting, electrical, or any restraint system. Independent of time, when

the vehicle speed is reduced to less than approximately one mph, the system shuts the engine down and begins a cool down period that prevents the engine from being restarted for between 10 and 60 minutes, depending on environmental conditions.

**Supplier Identification :****Component Manufacturer**

Name : Stoneridge Control Devices

Address : 345 South Mill Street

Lexington OHIO 44904

Country : United States

**Chronology :**

February and March 2015: Ford evaluated engine calibration operation while manually inserting EGT faults in every combination and condition (i.e., open, short, and out of range) for all sensor positions, conducted extensive vehicle drive evaluations while manually inserting sensor faults, evaluated warranty service data retrieved during diagnostics and repairs, analyzed parts returned from the field, and reviewed customer reports identified for this response. Ford's data analysis and testing identified that, in addition to the single open or short circuit fault in the EGT sensor downstream of the Diesel Particulate Filter (DPF) addressed by 13S10 (13v535), there were other EGT sensor and sensor conditions that could also initiate an EGT sensor FMEM and result in a SSN mode. In particular, Ford's analysis of the sensors with a higher time in service identified faults in the sensor upstream of the DPF, not previously seen, and that these faults could potentially lead to a SSN condition. As a result, Ford determined that the remedy applied in the 2013 safety recall did not reduce the number of non-over temperature SSN events as effectively as originally anticipated.

On March 16, 2015, 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(s) to a Ford or Lincoln dealer to have the Powertrain Control Module (PCM) reprogrammed to the latest level software. There will be no charge to owners for this service.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

**Recall Schedule :**

Description of Recall Schedule : Notification to dealers will occur on March 24, 2015. Mailing of owner notification letters will begin May 11, 2015 and is expected to be completed by May 15, 2015.

Ford will upload a copy of the notification letters to dealers to NHTSA's safecar.gov website when available

Planned Dealer Notification Date : MAR 24, 2015 - MAR 24, 2015

Planned Owner Notification Date : MAY 11, 2015 - MAY 15, 2015

\* NR - Not Reported