

Part 573 Safety Recall Report**14V-542****Manufacturer Name :** General Motors LLC**Submission Date :** SEP 04,2014**NHTSA Recall No. :** 14V-542**Manufacturer Recall No. :** 14405**Manufacturer Information :**

Manufacturer Name : General Motors LLC

Address : 30001 VAN DYKE

MAIL CODE 480-210-2V WARREN MI 48090

Company phone : 999

Population :

Number of potentially involved : 10,005

Estimated percentage with defect : 100

Vehicle Information :

Vehicle : 2004-2004 Cadillac CTS-V

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Certain 2004 Cadillac CTS-V vehicles

Production Dates : OCT 06, 2003 - MAY 17, 2004

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2005-2005 Cadillac CTS-V

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Certain 2005 Cadillac CTS-V vehicles

Production Dates : FEB 18, 2004 - MAY 24, 2005

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2006-2006 Cadillac CTS-V

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Certain 2006 Cadillac CTS-V vehicles

Production Dates : JUN 20, 2005 - APR 28, 2006

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2007-2007 Cadillac CTS-V

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Certain 2007 Cadillac CTS-V vehicles

Production Dates : MAR 07, 2006 - MAR 15, 2007

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2006-2006 Cadillac STS-V

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Certain 2006 Cadillac STS-V vehicles

Production Dates : JUN 23, 2005 - JUN 02, 2006

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2007-2007 Cadillac STS-V

Vehicle Type : LIGHT VEHICLES

Body Style :

Power Train : NR

Descriptive Information : Certain 2007 Cadillac STS-V vehicles

Production Dates : MAY 02, 2006 - MAR 15, 2007

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Description of Defect :

Description of the Defect : General Motors has decided that a defect which relates to motor vehicle safety exists in certain 2004-2007 model year (MY) Cadillac CTS-V and 2006-2007 MY Cadillac STS-V vehicles. In the subject vehicles, the fuel pump module electrical terminal may overheat and cause localized melting of the flange material near the overheated electrical terminal. The melted flange material could create a hole, or leak path, in the fuel pump allowing fuel to escape from the fuel pump module.

Description of the Safety Risk : This condition may result in fuel leaking from the fuel pump to the ground, diagnostic leak codes set by evaporated fuel emissions, or intermittent engine performance that could include stalling, increasing the risk of a crash.

Description of the Cause : Fretting corrosion occurs, increasing electrical resistance which can generate heat during higher pump current draws.

Identification of Any Warning that can Occur : NR

Supplier Identification :

Component Manufacturer

Name : See attachment

Address : NR

NR

Country : NR

Chronology :

On June 10, 2014, GM received a Speak Up For Safety report that a 2004 Cadillac CTS-V with approximately 130,000 miles was leaking fuel. According to that report, a certified mechanic observed a hole in the fuel pump module, possibly caused by the fuel pump module's electrical connectors overheating and melting through the module's flange material. GM initiated an investigation on June 16. Between June 6 and June 15, 2014, GM obtained and analyzed the suspect fuel pump module. From a visual inspection, GM confirmed there was a hole in the flange material surrounding the terminals on the fuel pump module. Fuel could leak from the pump to the ground through the hole.

From June 16 through August 19, 2014, GM investigated the root cause of the fuel leak. GM analyzed relevant TREAD data, warranty claims, and GM's Problem Resolution Tracking System (PRTS). GM discovered a PRTS report from September 22, 2006, that determined the electrical connectors on the STS-V's fuel pump could overheat and deform. According to the PRTS, the overheating of the fuel pump module terminals was caused by fretting corrosion due to motor vibration. GM resolved the PTRS report in 2007 by replacing the electrical connector contacts with contacts containing Beryllium copper and by reducing the stiffness of the wire sheathing to reduce transmitted pump vibrations. The new Beryllium contacts and flexible wires were used in all new CTS-V and STS-V vehicles built on or after March 15, 2007.

GM's review found approximately 24 fuel pump cases through warranty repairs, PRTS, and Speak Up For Safety that appear to be related to this condition. All of these repairs were in vehicles built prior to March 15, 2007.

On August 27, 2014, GM's Safety and Field Action Decision Authority (SFADA) decided to conduct a safety-related recall.

Description of Remedy :

Description of Remedy Program : Dealers will replace fuel module and fuel tank jumper harness. Pursuant to 577.11, GM will provide reimbursement to owners for previous repairs according to the plan submitted on May 23, 2013.

How Remedy Component Differs from Recalled Component : Beryllium copper was added to the terminal pins and pump wire stiffness reduced.

Identify How/When Recall Condition was Corrected in Production : See chronology.

Recall Schedule :

Description of Recall Schedule : General Motors will provide the dealer bulletin and owner letter mail dates when available.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

* NR - Not Reported