

by the combination of contact power, and ambient temperature around the fuel pump relay.

Identification of Any Warning that can Occur : A stall event may be preceded by engine starting issues.

Supplier Identification :**Component Manufacturer**

Name : Continental Automotive Systems, Inc.

Address : One Continental Drive

Auburn Hills MICHIGAN 48326

Country : United States

Chronology :

- On Oct 1, 2013, an investigation was initiated after the safety office was notified that TIPM-7 parts were on national backorder due to high WK/WD demand.
 - In Oct of 2013, a preliminary review of field narratives & vehicles indicated a fuel pump circuit in the TIPM-7 was not energizing the fuel pump.
 - On Nov 6, 2013, in order to alleviate the TIPM backorder, an existing MOPAR kit, offering a standalone external replacement relay, was made available for vehicles exhibiting TIPM fuel pump relay symptoms.
 - In Nov 2013, 11 relays were analyzed and demonstrated both spring deformation and contact erosion.
 - During Dec 2013 – Feb 2014, cycle testing was conducted to analyze the effect of inductance and current at the fuel pump relay, but was unable to recreate TIPM-7 fuel pump relay failures.
 - In Mar 2014, vehicle level analysis identified the presence of a startup pulse, which momentarily turns the fuel pump relay off in some vehicles, increasing relay cycles.
 - In Mar – Apr 2014, steady state load tests were conducted to analyze the effect of continuous high temperature and high current at the fuel pump relay, but were unable to recreate TIPM-7 fuel pump relay failures.
 - In May – Aug 2014, multiple fuel pump relay versions were put under test replicating the worst case WK/WD vehicle operating conditions with a more severe duty cycle. Testing was able to successfully recreate TIPM-7 fuel pump relay failures in an accelerated time frame, as well as confirm the reliability of the external relay solution.
 - In Aug 2014, Chrysler's VRC authorized a voluntary safety recall for 2011 MY WK and WD 3.6L and 5.7L engines.
 - In Sept 2014 – Jan 2015, additional testing and field data analysis indicated that additional WK/WD vehicles may be susceptible to the same type of fuel pump relay malfunction.
- On Feb 17, 2015 the FCA US VRC authorized a voluntary safety recall for the 2012-2013 MY WK and WD 3.6L and 5.7L engines.

Description of Remedy :

Description of Remedy Program : Conduct a Voluntary Safety Recall on all affected vehicles to install a new, more robust fuel pump relay, which will be installed external to the TIPM-7.

How Remedy Component Differs from Recalled Component : Remedy is a new part to the vehicle and is installed externally to the TIPM.

Identify How/When Recall Condition was Corrected in Production : The electrical architecture in 2014 MY WK and WD vehicles was redesigned to

include a new body controller and fuel pump relay.

Recall Schedule :

Description of Recall Schedule : NR

Planned Dealer Notification Date : APR 17, 2015 - APR 17, 2015

Planned Owner Notification Date : APR 24, 2015 - APR 24, 2015

* NR - Not Reported