

# Part 573 Safety Recall Report

# 23V-411

**Manufacturer Name :** Chrysler (FCA US, LLC)**Submission Date :** JUN 08, 2023**NHTSA Recall No. :** 23V-411**Manufacturer Recall No. :** 66A**Manufacturer Information :**

Manufacturer Name : Chrysler (FCA US, LLC)

Address : 800 Chrysler Drive  
CIMS 482-00-91 Auburn Hills MI  
48326-2757

Company phone : 1-800-853-1403

**Population :**

Number of potentially involved : 80,629

Estimated percentage with defect : 2 %

**Vehicle Information :**

Vehicle 1 : 2014-2019 Ram 1500

Vehicle Type :

Body Style : PICKUP TRUCK

Power Train : NR

**Descriptive Information :** Some 2014-2019 MY Ram 1500 vehicles built with 3.0L Diesel engines may have the magnetic signal material delaminate from the body of the tone wheel.

The suspect period began on June 12, 2013, when 3.0L Diesel engines with suspect tone wheels were introduced in vehicle production, through December 13, 2019, when suspect engine stock was depleted in vehicle production. The vehicle population was determined by engine and vehicle assembly traceability records.

Similar vehicles not included in this recall do not have suspect magnetic tone wheels on 3.0L Diesel engines, were included in FCA US LLC ("FCA US") Recall ID W58 (NHTSA Recall ID 20V-475), or were built with other engines that do not have magnetic tone wheels.

The total affected vehicles for this model is 58,393.

Production Dates : JUN 12, 2013 - DEC 13, 2019

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2014-2020 Jeep Grand Cherokee

Vehicle Type :

Body Style : SUV

Power Train : NR

**Descriptive Information :** Some 2014-2020 MY Jeep Grand Cherokee vehicles built with 3.0L Diesel engines may have the magnetic signal material delaminate from the body of the tone wheel.

The suspect period began on December 19, 2012, when 3.0L Diesel engines with suspect tone wheels were introduced in vehicle production, through October 13, 2019, when suspect engine stock was depleted in vehicle production. The vehicle population was determined by engine and vehicle assembly traceability records.

Similar vehicles not included in this recall do not have suspect magnetic tone wheels on 3.0L Diesel engines, were included in FCA US Recall ID W58 (NHTSA Recall ID 20V-475), or were built with other engines that do not have magnetic tone wheels.

The total affected vehicles for this model is 22,236.

**Production Dates :** DEC 19, 2012 - OCT 13, 2019

**VIN Range 1 : Begin :**

NR

**End :** NR

Not sequential

## Description of Defect :

**Description of the Defect :** The magnetic material attached to the reluctor wheel provides a signal to the crankshaft position sensor. If this signal material is lost, the engine loses its ability to synchronize injector pulses and cam timing. This loss of crankshaft position can result in an engine stall, as well as loss of the ability to restart the engine.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** A loss of motive power can cause a vehicle crash without prior warning.

**Description of the Cause :** NR

**Identification of Any Warning that can Occur :** None

## Involved Components :

**Component Name 1 :** Reluctor Wheel

**Component Description :** Crankshaft

**Component Part Number :** 68493358AA

## Supplier Identification :

### Component Manufacturer

Name : Hutchinson  
Address : 1 Route d'Avire  
Segre-en-anjou Blue Foreign States  
Country : France

## Chronology :

- On May 9, 2023, the FCA US Technical Safety and Regulatory Compliance ("TSRC") organization opened an investigation into 2014-2019 MY Ram 1500 and 2014-2020 MY Jeep Grand Cherokee vehicles built with 3.0L Diesel engines with tone ("reluctor") wheels that have insufficient bond between the magnetic coating and the tone wheel body.
- During May 2023, FCA US TSRC conducted an analysis of stall patterns and vehicle history and determined that the affected vehicles were equipped with the Gen II 3.0L Diesel engine and the crankshaft tone wheel was the origin of the stalls.
- As of June 1, 2023, FCA US is aware of 10 customer assistance records, 611 warranty claims, and three field reports potentially related to this issue for all markets with dates of receipt ranging from September 29, 2015, through May 23, 2023.
- As of June 1, 2023, FCA US is not aware of any accidents or injuries potentially related to this issue for all markets.
- On June 1, 2023, FCA US determined, through the Vehicle Regulations Committee, to conduct a voluntary safety recall of the affected vehicles.

## Description of Remedy :

Description of Remedy Program : FCA US will conduct a voluntary safety recall on all affected vehicles to update the powertrain control module software to maintain vehicle propulsion by reading the camshaft position signal in the event that crankshaft position signal is lost.

FCA US has a longstanding policy and practice of reimbursing owners who have incurred the cost of repairing a problem that subsequently becomes the subject of a field action. To ensure consistency, FCA US, as part of the owner letter, will request that customers send the original receipt and/or other adequate proof of payment to the company for confirmation of the expense.

How Remedy Component Differs from Recalled Component : The remedy component will be a software flash that, if failure of the tone wheel occurs, causes a malfunction indicator light to illuminate and prevents an engine stall.

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

### Recall Schedule :

Description of Recall Schedule : \*\*06/08/2023: FCA US will notify dealers and begin notifying owners on or about 07/28/2023.

Planned Dealer Notification Date : JUL 28, 2023 - JUL 28, 2023

Planned Owner Notification Date : JUL 28, 2023 - JUL 28, 2023

\* NR - Not Reported