

# SAFETY RECALL

NORTH AMERICA

## Loss of Crankshaft Position



Reference: 66A / NHTSA 23V-411

FCA US LLC



Remedy available for  
2014-2016, 2018 and 2020 (WK) Jeep  
Grand Cherokee



**RAM**

Remedy available for  
2014-2018 (DS) Ram 1500 Pickup

Remedy NOT available for  
2019 (DS) Ram 1500 Pickup

Template Version 1.0

| Revision | Edition      | Detail           |
|----------|--------------|------------------|
| 0        | October 2023 | Initial Version. |

### SYMPTOM DESCRIPTION

The magnetic material attached to the tone wheel on about 113810 of the above vehicles 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. A loss of motive power can cause a vehicle crash without prior warning.

### SCOPE

This recall applies only to the above vehicles equipped with a 3.0L diesel engine (sales code EXF).

NOTE: Some vehicles above may have been identified as not involved in this recall and therefore have been excluded from this recall.

IMPORTANT: Some of the involved vehicles may be in dealer used vehicle inventory. Dealers should complete this recall service on these vehicles before retail delivery. Dealers should also perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

### REPAIR TO BE PERFORMED

Reprogram the Powertrain Control Module to maintain engine operation if the signal material is lost.

### COMPLETION REPORTING / REIMBURSEMENT

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims paid will be used by FCA to record recall service completions and provide dealer payments.

Use the following labor operation numbers and time allowances:

| Labor Description                                              | Number      | Hrs |
|----------------------------------------------------------------|-------------|-----|
| Inspect PCM Software Level                                     | 18-66-A1-81 | 0.2 |
| Inspect PCM Software Level and Reprogram PCM with New software | 18-66-A1-82 | 0.2 |

| Labor Description        | Number      | Allowance           |
|--------------------------|-------------|---------------------|
| Floor Plan Reimbursement | 95-95-95-97 | Calculate See Below |

Floor Plan Reimbursement represents the vehicle's average daily allowance (see table below) multiplied by the number of days the vehicle was in dealer inventory and not available for sale. This reimbursement is limited to the number of days from the date of the stop sale to the date that the remedy was made available. Note: If the vehicle was received by your dealership (KZX date) AFTER the stop sale date, you will use the KZX date instead of the stop sale date. For this Recall, the stop sale was initiated on **06/15/2023** and the remedy was made available on **10/24/2023**, therefore, the number of days cannot exceed **131** days.

| Vehicle                   | Average Daily Allowance |
|---------------------------|-------------------------|
| 2018 (DS) Ram 1500 Pickup | ██████                  |

### PARTS INFORMATION

No parts are required to perform this service procedure.

### PARTS RETURN

No parts return required for this campaign.

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### SPECIAL TOOLS

| Number | Description              | Picture |
|--------|--------------------------|---------|
| NPN    | wiTECH MicroPod II / MDP |         |
| NPN    | Laptop Computer          |         |
| NPN    | wiTECH Software          |         |

### DEALER NOTIFICATION

To view this notification on DealerCONNECT, select “Global Recall System” on the Service tab, then click on the description of this notification.

### OWNER NOTIFICATION / SERVICE SCHEDULING

All involved vehicle owners known to FCA are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

### VEHICLE LISTS, GLOBAL RECALL SYSTEM, VIP AND DEALER FOLLOW UP

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner’s name,

address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the “**Service**” tab and then click on “**Global Recall System**.” Your dealer’s VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

**Dealers must perform this repair on all unsold vehicles before retail delivery.** Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

*Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.*

### ADDITIONAL INFORMATION

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations  
FCA US LLC.

## SERVICE PROCEDURE

### A. Insert Title

**NOTE: The wiTECH scan tool must be used to perform this recall. If the reprogramming flash for the PCM is aborted or interrupted, repeat the procedure.**

1. Open the hood. Install a battery charger and verify that the charging rate provides 13.0 to 13.5 volts. Do not allow the charger to time out during the flash process. Set the battery charger timer (if so equipped) to continuous charge.

**NOTE: Use an accurate stand-alone voltmeter. The battery charger volt meter may not be sufficiently accurate. Voltages outside of the specified range will cause an unsuccessful flash. If voltage reading is too high, apply an electrical load by activating the park or headlamps and/or HVAC blower motor to lower the voltage.**

2. Connect the wiTECH MDP to the vehicle data link connector.
3. Place the ignition in the “**RUN**” position.
4. Open the wiTECH 2.0 website.
5. Enter your “**User id**” and “**Password**” and your “**Dealer Code**”, then select “**Sign In**” at the bottom of the screen. Click “**Accept**”.
6. From the “**Vehicle Selection**” screen, select the vehicle to be updated.
7. From the “**Action Items**” screen, select the “**Topology**” tab.

**NOTE: The PCM must be at the latest software calibration level after completing this recall.**

8. From the “**Topology**” tab, select the “**PCM**” module icon.
9. From the “**Flash**” tab, compare the “**Current Electronic Control Unit (ECU) Part Number**” with the “**New ECU Part Number**” listed.
  - If the “**Current ECU part Number**” is the same as the “**New Part Number**”, proceed to **Step 15**.
  - If the “**Current ECU part Number**” is NOT the same as the “**New Part Number**”, continue with **Step 10**.
10. From the PCM tab, select the PCM flash part number. Read the flash special instructions page. Select “**OK**” to continue.
11. From the flash ECU agreement page, agree to terms by checking the box.
12. Select “**Flash ECU**” and then follow the wiTECH screen instructions to complete the flash.
13. Confirm the software is at the latest available calibration level.
14. Click “**View DTCs**”, select “**Clear All DTCs**”, click “**Continue**” and then click “**Close**”.
15. Place the ignition in the “**OFF**” position and then remove the wiTECH MDP device from the vehicle.

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16. Remove the battery charger from the vehicle.
  17. Close the vehicle hood.

This notice applies to your vehicle,

[Model Year and Model]

VIN XXXXXXXXXXXXXXXXXXXX

66A/NHTSA 23V-411

LOGO

VEHICLE PICTURE

#### YOUR SCHEDULING OPTIONS

- 1. RECOMMENDED OPTION**  
Call your authorized Chrysler / Dodge / Jeep® / RAM dealership.
- 2. Call the FCA Recall Assistance Center at 1-800-853-1403.** An agent can confirm part availability and help schedule an appointment.
- 3. Visit recalls.mopar.com, scan the QR code below, or download the Mopar Owner's Companion App.**

QR Code

Get access to recall notifications, locate your nearest dealer, and more through this website or Mopar Owner's Companion App. You will be asked to provide your Vehicle Identification Number (VIN) to protect and verify your identity. The last eight characters of your VIN are provided above.

#### DEALERSHIP INSTRUCTIONS

Please reference Safety Recall 66A.

# IMPORTANT SAFETY RECALL

## Loss of Crankshaft Position

Dear [Name],

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act.

FCA US has decided that a defect, which relates to motor vehicle safety, exists in certain [2014 through 2018 Model Year (DS) Ram 1500 Pickup and 2014 through 2016, 2018 and 2020 Model Year (WK) Jeep® Grand Cherokee] vehicles.

It is extremely important to take steps now to repair your vehicle to ensure the safety of you and your passengers.

#### WHY DOES MY VEHICLE NEED REPAIRS?

The magnetic material attached to the tone wheel on your vehicle <sup>[1]</sup> 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. **A loss of motive power can cause a vehicle crash without prior warning.**

#### HOW DO I RESOLVE THIS IMPORTANT SAFETY ISSUE?

FCA US will repair your vehicle <sup>[2]</sup> free of charge (parts and labor). To do this, your dealer will reprogram the Powertrain Control Module to maintain engine operation if the signal material is lost. The estimated repair time is one hour. In addition, your dealer will require your vehicle for proper check-in, preparation, and check-out during your visit, which may require more time. Your time is important to us, so we recommend that you schedule a service appointment to minimize your inconvenience. Please bring this letter with you to your dealership.

**TO SCHEDULE YOUR FREE REPAIR,  
CALL YOUR CHRYSLER, DODGE, JEEP OR RAM DEALER TODAY**

#### CALIFORNIA RESIDENTS

The State of California requires the completion of emission recall repairs prior to vehicle registration renewal. Your dealer will provide you with a Vehicle Emission Recall Proof of Correction Form after the Emission Recall service is performed. Be sure to save this form since the California Department of Motor Vehicles may require that you supply it as proof that the Emission Recall has been performed.

In order to ensure your full protection under the emissions warranty provisions, it is recommended that you have your (vehicle or engine) serviced as soon as possible. Failure to do so could be determined as lack of proper maintenance of your (vehicle or engine).

#### WHAT IF I ALREADY PAID TO HAVE THIS REPAIR COMPLETED?

If you have already experienced this specific condition and have paid to have it repaired, you may visit [www.fcarecallreimbursement.com](http://www.fcarecallreimbursement.com) to submit your reimbursement request online. <sup>[3]</sup> Once we receive and verify the required documents, reimbursement will be sent to you within 60 days. If you have had previous repairs performed and/or already received reimbursement, you may still need to have the recall repair performed.

We apologize for any inconvenience, but are sincerely concerned about your safety. Thank you for your attention to this important matter.

Customer Assistance/Field Operations  
FCA US LLC



**Mr. Mrs. Customer**  
**1234 Main Street**  
**Hometown, MI 48371**

[1] If you no longer own this vehicle, please help us update our records. Call the FCA Recall Assistance Center at 1-800-853-1403 to update your information.

[2] If your dealer fails or is unable to remedy this defect without charge and within a reasonable time, you may submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave., S.E., Washington, DC 20590, or you can call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY 1-800-424-9153), or go to [safercar.gov](http://safercar.gov).

[3] You can also mail in your original receipts and proof of payment to the following address for reimbursement consideration: FCA Customer Assistance, P.O. Box 21-8004, Auburn Hills, MI 48321-8007, Attention: Recall Reimbursement.

Note to lessors receiving this recall notice: Federal regulation requires that you forward this recall notice to the lessee within 10 days.