SAFETY RECALL
NORTH AMERICA
Electronic Drive Module Software

Reference: 98C / NHTSA 25V-665

FCA US LLC

Remedy available for

2024-2025 (VF) Ram ProMaster Battery Electric Vehicles (BEV)

Template Version 1.0

Revision	Edition	Detail
0	October 2025	Initial Version.

SYMPTOM DESCRIPTION

The Motor Control Processor (MCP) software on about 790 of the above vehicles does not effectively limit dynamic torque spikes. Dynamic torque spikes that are not limited can damage the differential housing and result in a loss of drive power. An unexpected a loss of drive power can cause a vehicle crash without prior warning.

SCOPE

This recall applies only to the above Battery Electric Vehicles (BEV).

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 new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery. Violation of this requirement by a dealer could result in a civil penalty of up to $27,874 per vehicle.
- 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 Battery Processor Control Module (BPCM), Motor Control Processor A (MCPA), Integrated Dual Charge Module (IDCM), Electric Vehicle Control Unit (EVCU) and inspect and if necessary, replace the Electric Drive Module (EDM).

ALTERNATE TRANSPORTATION

Dealers should proactively minimize customer inconvenience while the recall repair is being performed. Reference the Goodwill Alternate Transportation Guidelines warranty bulletin link within Recall Central on DealerCONNECT for options to support the customer while their vehicle is in service.

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 BPCM, MCPA, IDCM, and EVCU Module Software Levels	18-98-C1-81	0.2
Inspect and Reprogram the MCPA module	18-98-C1-82	0.4

NOTE: Use the related LOPs for updating the BPCM, IDCM, and EVCU if updated software exists for any of those modules.

Related Operations	Number	Hrs
Update BPCM Software	18-98-C1-51	0.3
Update IDCM Software.	18-98-C1-52	0.3
Update EVCU Software.	18-98-C1-53	0.6

NOTE: EDM replacement is NOT necessary unless EDM failed prior to software update.

Related Operations	Number	Hrs
EDM replacement	18-98-C1-55	6.1

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

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For Mobile Service Reimbursement, dealer to include standard dealer entry and mark-up for parts, standard dealer entry and labor rate for service, as well as the special services code for mobile allowance. The special services LOP will only be paid once per VIN and may NOT be used in coordination with any Alternate Transportation claims.

For additional details, reference the Mobile Service Warranty Bulletin - for convenience, a copy has been linked within Recall Central on DealerCONNECT.

PARTS INFORMATION

No parts are required to perform software update.

NOTE: EDM replacement is ONLY necessary if EDM failed prior to software update.
EDM and related parts can only be ordered through **campaignteam@stellantis.com.** Please provide the VIN, Mileage, and Dealer Code. The Supply Chain team will order to the EDM and related fasteners.

PARTS RETURN

No parts return required for this campaign.

SPECIAL TOOLS

Number	Description
NPN	wiTECH MicroPod II / MDP
NPN	Laptop Computer
NPN	wiTECH Software

NOTE: Following tools are only needed for EDM replacement.

Number	Description
2087800080	Test Adapter
C-3894-A	Puller, Tie Rod

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.

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SERVICE PROCEDURE

Software Update

NOTE: The wiTECH scan tool must be used to perform this Safety Recall. The wiTECH software is required to be at the latest release level before performing this procedure.

NOTE: The BPCM, MCPA, IDCM and EVCU must all be updated in that order to the latest available software at the conclusion of this repair procedure.

1. Place the ignition in "**OFF**" position. Wait two minutes for the HV system to completely power down.
2. Remove the battery cover (1) by loosening fasteners (2, 3) (Figure 1).

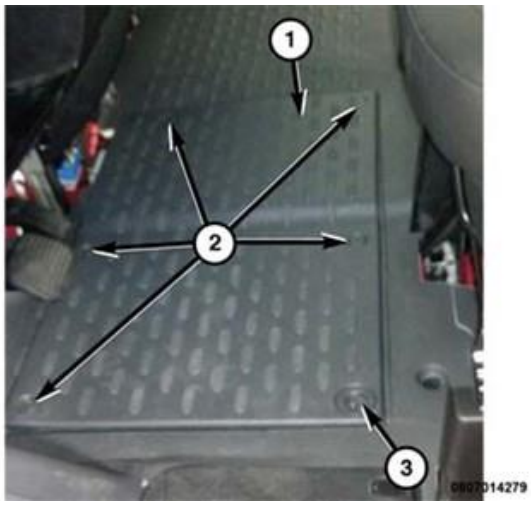

Figure 1 – Battery Cover

3. Open the High Voltage Disabling and Lockout (HVDL) connector located under the 12-volt battery cover by lifting the red Connector Position Assurance (CPA) lock tab on the black portion of the green HVDL connector. Using a small screwdriver or probe, lift the lock arm as shown and lift the black portion of the device until the padlock hole is completely exposed. When the center safety lockout loop of the connector is raised, a hole for a safety lock is exposed (Figure 2).
4. Open the engine compartment hood, this will prevent the cooling fan from running continuously during the flash process.
5. Install a 12-Volt battery charger. Do not allow the charger to time out during the flash process. Set the battery charger timer (if so equipped) to maintain 12-Volt continuous charge.

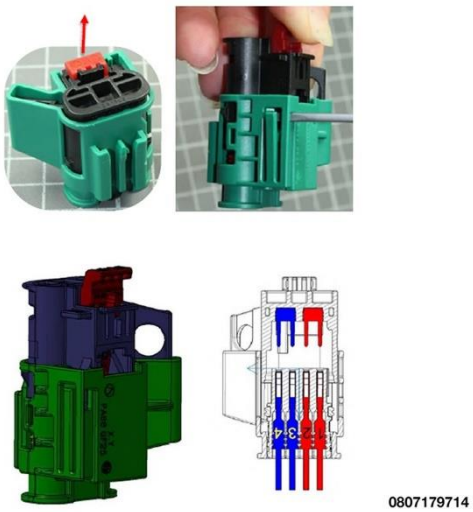

Figure 2 – HVDL Connector

NOTE: The vehicle MUST NOT be connected to a high voltage battery charger during the flash process.

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6. Connect the wiTECH MDP to the vehicle data link connector.
7. Place the ignition in the "**RUN**" position.
8. Open the wiTECH 2.0 website.
9. Enter your "**User ID**" and "**Password**" and your "**Dealer Code**", then select "**Sign In**" at the bottom of the screen. Click "**Accept**".
10. From the "**Vehicle Selection**" screen, select the vehicle to be updated.
11. From the "**Action Items**" screen, select the "**Topology**" tab.
12. From the "**Topology" tab**, select the "**BPCM**" module icon.
13. 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 20**.
    - If the "**Current ECU part Number**" is NOT the same as the "**New Part Number**", continue with **Step 14**.
14. From the **BPCM** tab, select the **BPCM** flash part number. Read the flash special instructions page. Select "**OK**" to continue.
15. From the flash ECU agreement page, agree to terms by checking the box.
16. Select "**Flash ECU**" and then follow the wiTECH screen instructions to complete the flash.
17. Confirm the software is at the latest available calibration level.
18. Cycle the ignition to the "**OFF**" position then back to the "**RUN**" position before clearing any DTCs that may have been set in any module during the flash process.
19. Click "**View DTCs**", select "**Clear All DTCs**", click "**Continue**" and then click "**Close**".

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20. From the "**Topology" tab**, select the "**MCPA**" module icon.

21. 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 34**.
    - If the "**Current ECU part Number**" is NOT the same as the "**New Part Number**", continue with **Step 22**.

22. Under vehicle hood, disconnect the Antilock Brake System (ABS) module electrical connector (1) (Figure 3).

23. Place the ignition in the "**RUN**" position.

24. From the "**Action Items**" screen, select the "**Topology**" tab.

25. Verify the contactors are open: From "**Topology**" tab, select the "**BPCM**" module icon, select the "**Data**" tab to view Contactor Status. Value should be "**Open**".

26. From the "**Topology**" tab, select the "**MCPA**" module icon.

27. From the MCPA "**Flash**" tab, select the flash part number. Read the flash special instructions page. Select "**OK**" to continue.

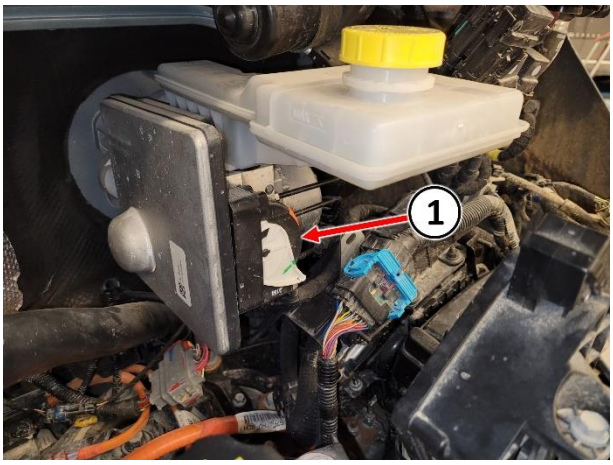

Figure 3 – ABS Connector

28. From the "**Flash ECU Agreement**" page, agree to terms by "**Checking the Box**".

29. Select "**Flash ECU**" and then follow the wiTECH screen instructions to complete the flash.

IMPORTANT: The following NOTES provide information for what to do in the event of flash failure. If flash completes as expected on first attempt, simply proceed as usual to next step in procedure.

NOTE: The supplier of this MCPA ECU has determined this flash reprogramming session may fail on a small number of vehicles. If this flash session fails, you will see 2 flash files displayed (Application and Boot Recovery). The Application file should be re-attempted, upon a failure, at least 2 times prior to selecting the Boot Recovery file. When the Boot Recovery file reaches 10% complete, there will be a 20 second countdown before the remaining file is flashed. This countdown is a normal part of the recovery.

NOTE: The Boot Recovery file should ONLY be selected after 2 failed attempts to flash the MCPA using the Application file. If the Boot Recovery file is used, it is VERY IMPORTANT to follow these steps while using the Boot Recovery file otherwise the MCPA could be damaged.

- **If the Boot Recovery flash Fails BEFORE reaching 10% complete, select the Boot Recovery file again to reattempt the flash.**
- **If the Boot Recovery flash REACHES 10% or more and then fails or is interrupted, revert to the MCPA Application flash file for ALL subsequent recovery attempts.**
- **Reattempting the Boot Recovery flash after reaching 10% will lead to MCPA damage.**

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- **If the Boot Recovery flash completes successfully, wiTECH will show part 68525367XD but after a flash tab refresh will show the latest software part number. Proceed to the next step in procedure as there is no need to flash the Application file again.**
- **If the Boot Recovery flash failed or was interrupted between 10% and 99% complete and subsequent flash of the MCPA Application file continues to fail after 2 more attempts, STOP and open a STAR case for further assistance.**

NOTE: If the ignition switch becomes non-responsive during flash, perform a 12V disconnect to reset the modules.

30. Verify the software is at the latest available calibration level.

31. Reconnect the ABS electrical connector (1) (Figure 3).

32. Cycle the ignition to the "**OFF**" position then back to the "**RUN**" position before clearing any DTCs that may have been set in any module during the flash process.

33. Select "**View DTCs**", then click "**Clear All DTCs**" and then select "**Close**". It may be necessary to cycle the ignition to OFF then back to RUN to clear the codes.

34. From the "**Topology" tab**, select the "**IDCM**" module icon.

35. 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 42**.
    - If the "**Current ECU part Number**" is NOT the same as the "**New Part Number**", continue with **Step 36**.

36. From the **IDCM** tab, select the **IDCM** flash part number. Read the flash special instructions page. Select "**OK**" to continue.

37. From the flash ECU agreement page, agree to terms by checking the box.

38. Select "**Flash ECU**" and then follow the wiTECH screen instructions to complete the flash.

39. Confirm the software is at the latest available calibration level.

40. Cycle the ignition to the "**OFF**" position then back to the "**RUN**" position before clearing any DTCs that may have been set in any module during the flash process.

41. Click "**View DTCs**", select "**Clear All DTCs**", click "**Continue**" and then click "**Close**".

42. From the "**Topology" tab**, select the "**EVCU**" module icon.

43. 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 51**.
    - If the "**Current ECU part Number**" is NOT the same as the "**New Part Number**", continue with **Step 44**.

44. From the **EVCU** tab, select the **EVCU** flash part number. Read the flash special instructions page. Select "**OK**" to continue.

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45. From the flash ECU agreement page, agree to terms by checking the box.
46. Select "**Flash ECU**" and then follow the wiTECH screen instructions to complete the flash.
47. Confirm the software is at the latest available calibration level.
48. Cycle the ignition to the "**OFF**" position then back to the "**RUN**" position before clearing any DTCs that may have been set in any module during the flash process.
49. Click "**View DTCs**", select "**Clear All DTCs**", click "**Continue**" and then click "**Close**".
50. Under "**Guided Diagnostics**" select and perform EVCU module reset. Vehicle won't start until the module gets reset.
51. Remove the 12-volt battery charger from the vehicle.
52. Open driver door and close the HVDL connector and CPA lock tab (Figure 2).
53. Under "**Activities**" heading, select "**Guided Diagnostics**" Then select "**PROXI Configuration Alignment**" and follow screen prompts to run the routine.
54. Place the ignition in the "**OFF**" position.
55. Remove the wiTECH MDP from the data link connector.
56. Close the hood and doors. Allow vehicle bus to power down (sleep) for 2 minutes.
57. Connect the wiTECH MDP to the vehicle data link connector.
58. Place the ignition in the "**RUN**" position.
59. Verify the contactors are closed: From "**Topology**" tab, select the "**BPCM**" module icon, select the "**Data**" tab to view Contactor Status. Value should be "**Closed**".
60. Click "**View DTCs**", select "**Clear All DTCs**", click "**Continue**" and then click "**Close**".
61. Place the ignition in the "**OFF**" position.
62. Remove the wiTECH MDP from the data link connector.
63. Install the battery cover (1) and secure the fasteners (2, 3) (Figure 1).
64. Return the vehicle to customer or inventory.

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SERVICE PROCEDURE

If EDM has failed – replace EDM

WARNING: This recall population contains BEV vehicles. Follow all safety precautions published in Service Library for the specific vehicle you are working on.

1. Power down the high voltage system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 12 - Electrified Powertrain System / High Voltage Battery / Standard Procedure.

2. Raise and support the vehicle. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 04 - Vehicle Quick Reference / Hoisting / Standard Procedure / BEV

3. Remove the underbody shields. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 13 - Frame and Bumpers / Under Body Protection / SHIELD / Removal and Installation.

4. Remove the belly pan. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 13 - Frame and Bumpers / Under Body Protection / BELLY PAN / Removal and Installation.

5. Drain the cooling system. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 12 - Electrified Powertrain System / Battery Cooling / Standard Procedure.

6. Remove the front wheels. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 22 - Tires and Wheels / TIRE AND WHEEL / Removal and Installation

7. Remove and support the front brake caliper assemblies. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 05 - Brakes / BRAKE ASSEMBLY / Disassembly and Assembly / Front

8. Remove the halfshafts. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 03 - Differential and Driveline / SHAFTS, Axle / Drive/Half / Removal and Installation.

9. Remove the EDM. Refer to the detailed service procedures available in DealerCONNECT/ Service Library under: Service Info> 12 - Electrified Powertrain System / Electric Powertrain Control / MOTORS, Electric Drive / Removal and Installation.

10. Read following NOTES which may be helpful information while removing EDM.

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NOTE: During EDM removal; it may be easier to disconnect the EDM high voltage cable from the high voltage battery and feed the cable over the cradle and steering rack rather than disconnecting the high voltage cable from the top of the EDM (Figure 4).

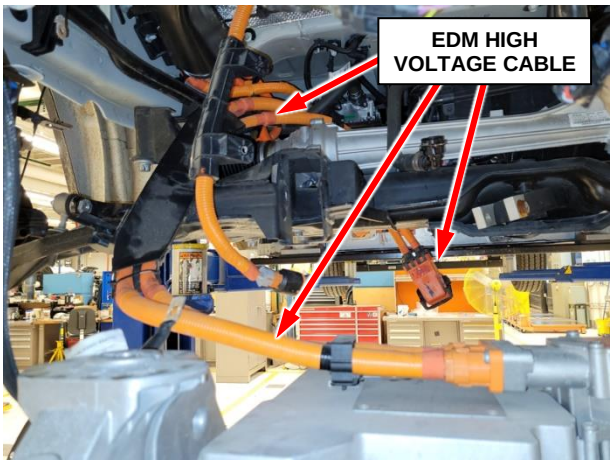

Figure 4 – EDM High Voltage Cable

NOTE: During EDM removal; EDM low voltage cable bracket must be removed from the top of the EDM and low voltage cable disconnected from the EDM (Figure 5).

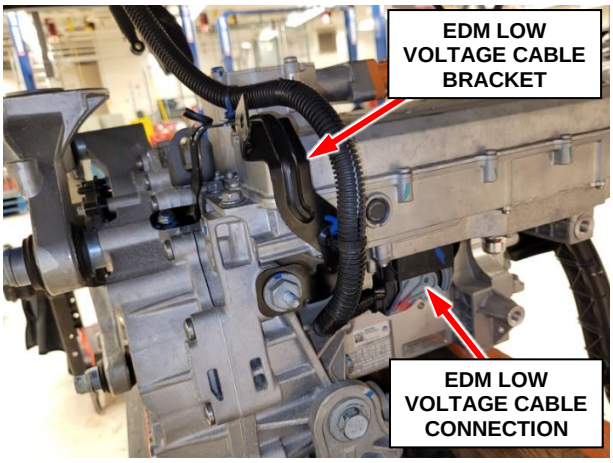

Figure 5 – EDM Low Voltage Cable

11. Install **NEW** EDM in reverse order of removal.

12. Ensure all software is updated as outlined in the beginning of this service procedure.

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This notice applies to your vehicle,

[Model Year and Model]
VIN XXXXXXXXXXXXXXXXX

98C/NHTSA 25V-665

LOGO

VEHICLE PICTURE

YOUR SCHEDULING OPTIONS

1. **RECOMMENDED OPTION**
   Call your authorized Business*Link* dealer.

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 98C.

IMPORTANT SAFETY RECALL

Electronic Drive Module Software

Dear [Name],

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

FCA US LLC has decided that a defect, which relates to motor vehicle safety, exists in certain [2024 and 2025 model year Ram ProMaster] Battery Electric Vehicles (BEV).

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 Motor Control Processor (MCP) software on your vehicle [1] does not effectively limit dynamic torque spikes. Dynamic torque spikes that are not limited can damage the differential housing and result in a loss of drive power. **An unexpected a loss of drive power can cause a vehicle crash without prior warning.**

HOW DO I RESOLVE THIS IMPORTANT SAFETY ISSUE?

FCA US will repair your vehicle [2] free of charge (parts and labor). To do this, your dealer will reprogram the MCP, Battery Processor Control Module (BPCM), Integrated Dual Charge Module (IDCM), Electric Vehicle Control Unit (EVCU) and inspect and if necessary, replace the EDM. The estimated repair time is approximately 1 hour for software updates. An additional 6 hours may be required if EDM replacement is necessary. 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. Ask your dealer for alternate transportation options while your vehicle is in service. Please bring this letter with you to your dealership.

TO SCHEDULE YOUR FREE REPAIR,
CALL YOUR BUSINESS*LINK* DEALER TODAY

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** to submit your reimbursement request online. [3] 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

FIAT CHRYSLER AUTOMOBILES

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 1-888-275-9171), or go to 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.