FCA
FIAT CHRYSLER AUTOMOBILES

February 2019 (Revision 7) January 2023

Dealer Service Instructions for:

Emissions Recall U70
Catalytic Converter Efficiency

NOTE: Inspection procedure and inspection LOP added for all engines.

Remedy Available

2011-2016 (JC) Dodge Journey
2011-2014 (JS) Dodge Avenger, Chrysler 200
2011-2016 (MK) Jeep Compass, Patriot
2011-2012 (PM) Dodge Caliber

NOTE: This recall applies only to the above front wheel drive vehicles equipped with a 2.0L engine (sales code ECN) or 2.4L engine (sales code ED3).

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 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.

Subject

Some of the above-involved vehicles may exceed NOx (Oxides of Nitrogen) emission level standards due to loss of catalytic converter efficiency due to the combination of precious metal usage, washcoat technology and sulfur levels in the fuel.

Repair

Replace the catalytic converter and update the Powertrain Control Module (PCM) software.

NOTE: Perform the Inspection Procedure to confirm that the last eight digits of the Vehicle Identification Number (VIN) matches the engine identification number before proceeding with the Service Procedure. If the engine has been replaced (numbers do not match) do not perform the U70 (U69 US) recall, unless it is a certified MOPAR engine built specifically for this vehicle application. Updating the PCM software on a vehicle with an incorrect replacement engine will result in a no-start condition which cannot be undone. U70 (U69 US) cannot be completed on a vehicle with an incorrect replacement engine until the vehicle is returned to the original equipment configuration.

Special Tools

The following special tools are required to perform this repair:

- NPN wiTECH micro pod II
- NPN Laptop Computer
- NPN wiTECH Software

Parts Information

Part Number	Description
CEZGU671AA	**Campaign Kit**

Each package contains the following components:

Quantity	Description
1	Gasket, Catalytic Converter
4	Nut, Manifold to Converter - M8x1.25x8.0
1	Authorized Modification Label
2	O2 Sensor - Upstream and Downstream

Part Number	Description
CEZGU672AA	**Catalytic Converter**

- (JC) Dodge Journey
- (JS) Chrysler 200, Dodge Avenger
- (MK) Jeep Patriot, Jeep Compass
- (PM) Dodge Caliber

Equipped with: Sales Code DFF - 4-Speed Automatic VLP Transmission

or

Equipped with: Sales Code DAV - Continuously Variable Transaxle II

or

2015 (MK) Equipped with: Sales Code DA4 - 6-Speed Automatic Transmission

Part Number	Description
CEZGU673AA	**Catalytic Converter**

- (JS) Chrysler 200, Dodge Avenger

Equipped with: Sales Code DG2 - 6-Speed Automatic 62TE Transmission

Parts Return

Return the Catalyst to the Mopar Core Return Center for core credit.

Refer to Section E under Service Procedure for proper Core Return preparation.

Inspection Procedure

NOTE: Confirm that the last eight digits of the Vehicle Identification Number (VIN) matches the engine identification number before proceeding with the Service Procedure. If the engine has been replaced (numbers do not match) do not perform the U70 (U69 US) recall, unless it is a certified MOPAR engine built specifically for this vehicle application. Updating the PCM software on a vehicle with an incorrect replacement engine will result in a no-start condition which cannot be undone. U70 (U69 US) cannot be completed on a vehicle with an incorrect replacement engine until the vehicle is returned to the original equipment configuration.

1. Raise and support the vehicle.

2. **If equipped:** Remove the engine compartment belly pan (Figure 1).

3. Compare the engine identification number to the last eight digits of the VIN (Figure 1).

   NOTE: The engine identfication number is stamped on the bottom rear of the engine near the transmission.

4. Does the engine identification number match the last eight digits of the VIN?

   - **YES:** If numbers match, leave the belly pan off if removed, lower the vehicle, then continue with the Service Procedure.
   - **NO:** If numbers do not match, do not perform the Service Procedure. Install the belly pan if removed then lower the vehicle. Claim the inspection LOP.

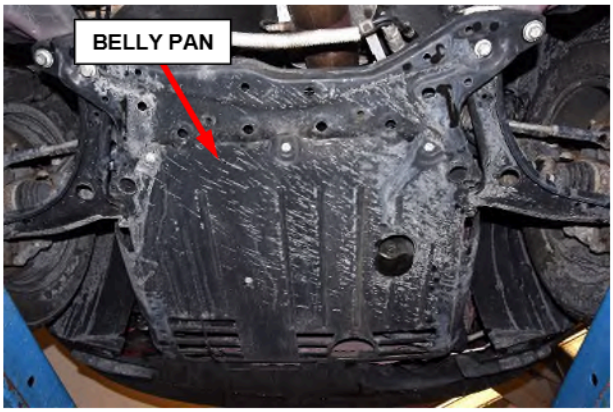


Figure 1 – Engine Compartment Belly Pan

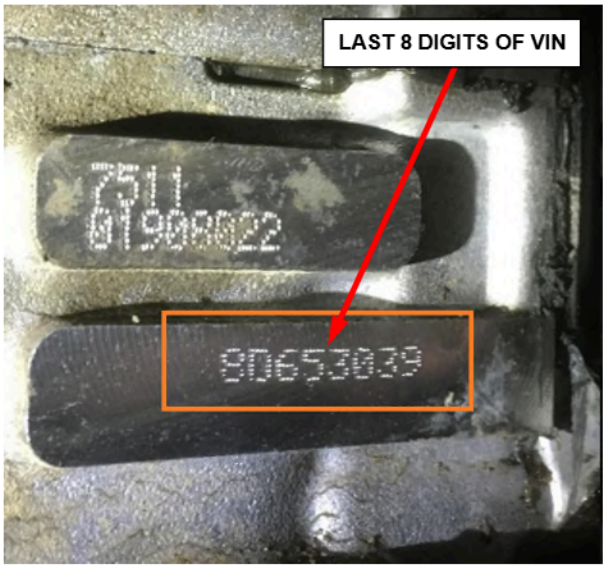


Figure 2 – Engine Identification Number

Service Procedure

A: Replace Catalytic Converter:

WARNING: The normal operating temperature of the exhaust system is very high. Therefore, never work around or attempt to service any part of the exhaust system until it is cooled. Special care should be taken when working near the catalytic converter. The temperature of the converter rises to a high level after a short period of engine operation time.

1. Open the engine compartment hood.

2. ***(MK) Jeep Patriot, Jeep Compass and (PM) Dodge Caliber vehicles:*** Remove the air cleaner inlet in order to access the battery (Figure 3).

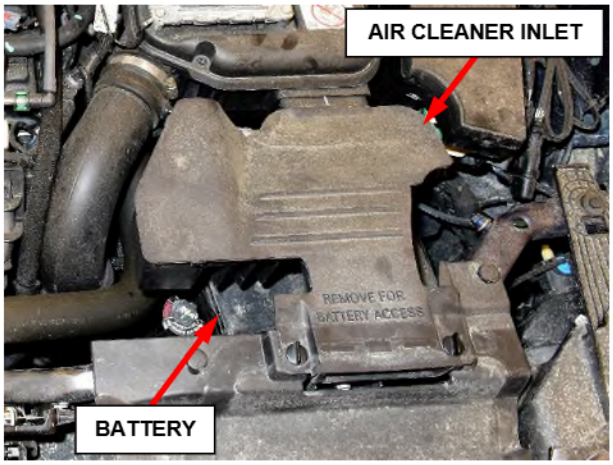


Figure 3 – MK/PM Only:
Air Cleaner Inlet

3. ***(MK) Jeep Patriot, Jeep Compass and (PM) Dodge Caliber vehicles:*** Disconnect and isolate the negative battery cable from the battery.

4. ***(JC) Dodge Journey and (JS) Dodge Avenger, Chrysler 200 vehicles:*** Disconnect and isolate the negative battery cable terminal from the remote battery post (Figure 4).

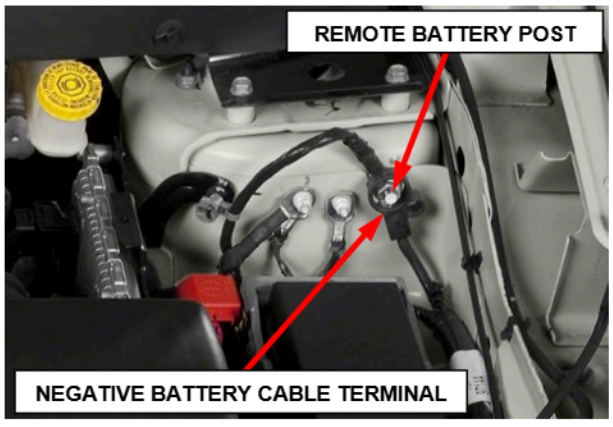


Figure 4 – JC/JS Only:
Negative Battery Cable Terminal
Remote Battery Post

Service Procedure [Continued]

5. ***All vehicles*:** Disconnect the upstream oxygen sensor electrical connector (Figures 3 and 4).

6. ***(JC) Dodge Journey and (JS) Dodge Avenger, Chrysler 200 vehicles:*** Disconnect the downstream oxygen sensor electrical connector (Figure 5).

Figure 5 – JC/JS Only:
Oxygen Sensor Electrical Connectors

7. Raise and support the vehicle.

8. ***(MK) Jeep Patriot, Jeep Compass and (PM) Dodge Caliber vehicles:*** Disconnect the downstream oxygen sensor electrical connector (Figure 6).

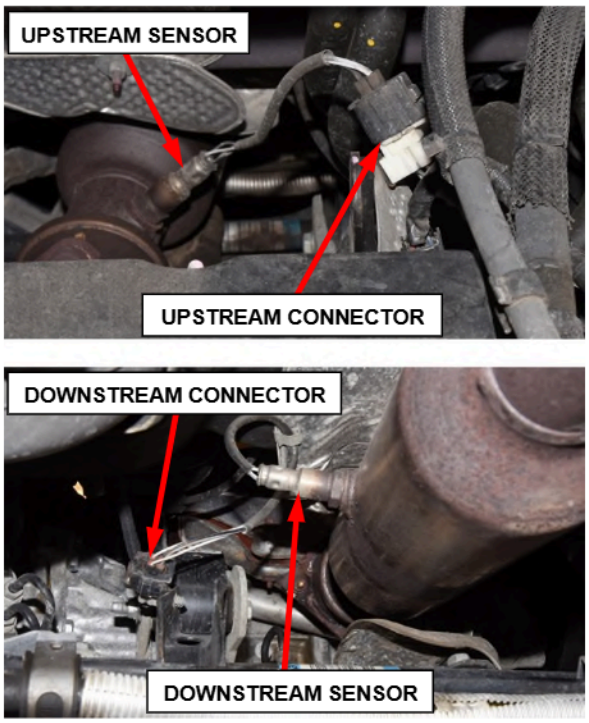


Figure 6 – MK/PM Only:
Oxygen Sensor Electrical Connectors

Service Procedure [Continued]

9. *2.0L engines, if equipped with an engine compartment belly pan remove the belly pan* (Figure 7).

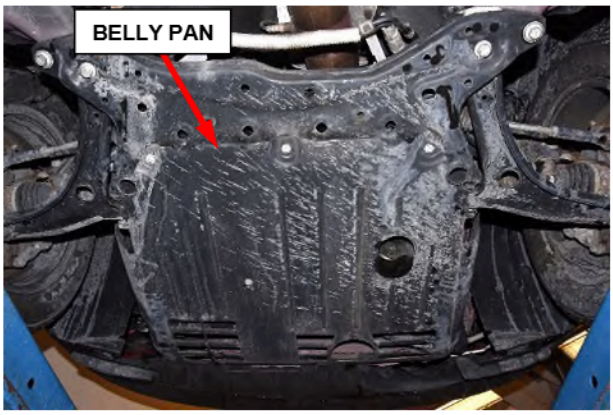


Figure 7 – Engine Compartment Belly Pan

10. Apply penetrating oil to the fasteners that connect the catalytic converter to the exhaust manifold. Allow time for penetration while removing the muffler resonator pipe assembly (Figure 8).

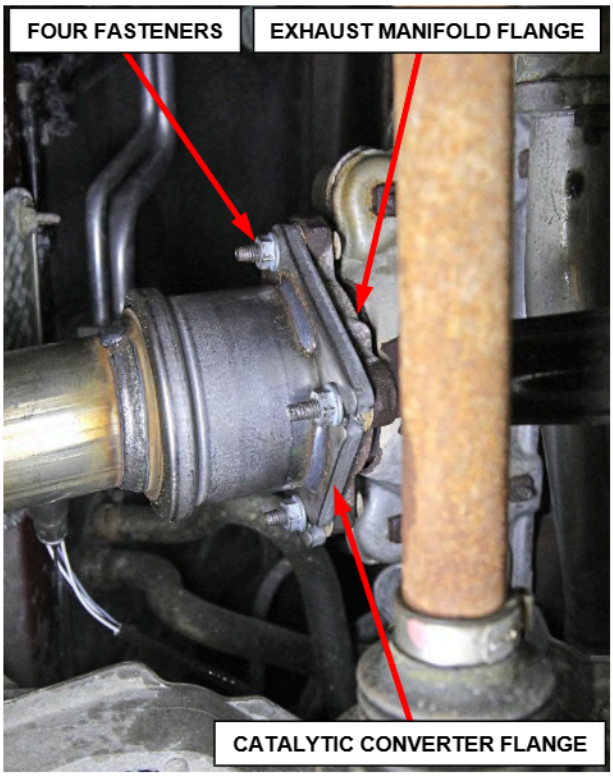


Figure 8 – Catalytic Converter to Exhaust Manifold Fasteners

11. Apply penetrating oil to the band clamp between the catalytic converter and the muffler resonator pipe inlet (Figure 9).

Service Procedure [Continued]

12. If equipped, remove the ground strap from the exhaust system.

13. Loosen the band clamp between the catalytic converter and the muffler resonator pipe inlet (Figure 9).

14. Support the muffler resonator pipe assembly.

    CAUTION: Do not use any tools to remove the rubber support isolators, remove by hand only. Soapy water or silicone based lubricant spray may be used to assist with removal and installation of isolators. DO NOT use a petroleum based lubricant on the isolators, as damage to the rubber material can occur.

15. Disconnect the rubber support isolators from the muffler resonator pipe assembly supports (Figures 9 and 10).

16. Remove the muffler resonator pipe as an assembly.

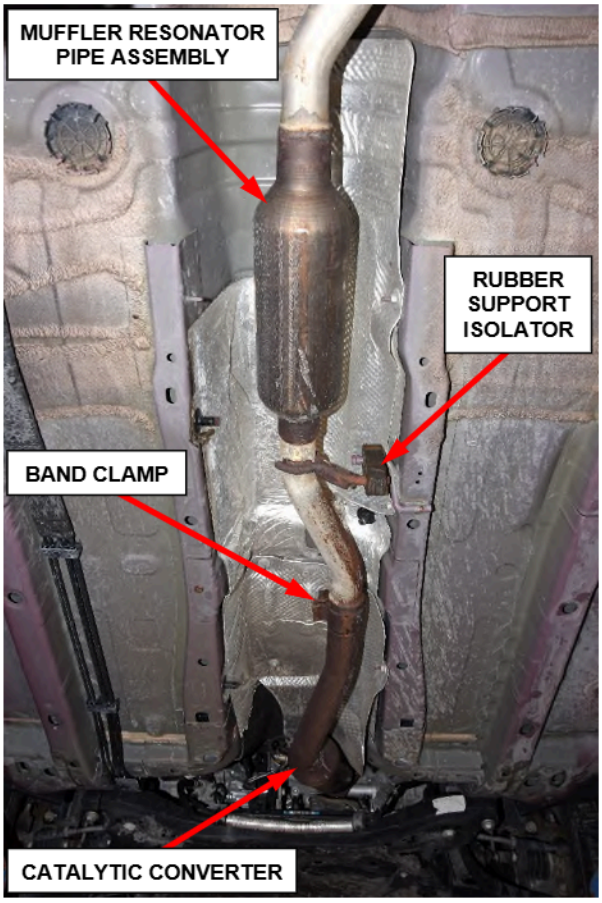


Figure 9 – Exhaust System
(Photo MK/PM Shown JC/JS Similar)

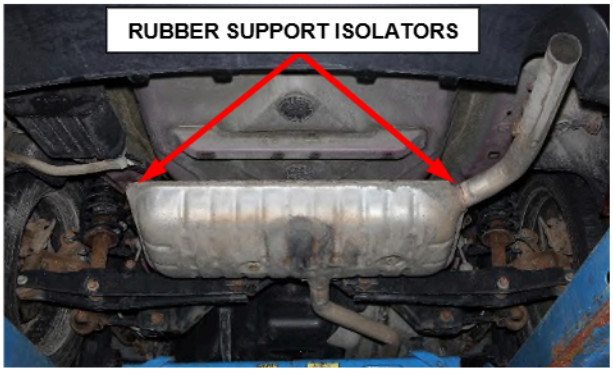


Figure 10 – Exhaust System
(Photo JC/JS Shown MK/PM Similar)

Service Procedure [Continued]

17. Remove and discard the catalytic converter flange nuts at the exhaust manifold flange (Figure 11).

18. Remove the catalytic converter with oxygen sensors and retain for core return.

19. Remove and discard the catalytic converter to exhaust manifold gasket (Figure 12).

20. Clean the exhaust manifold flange gasket sealing surface (Figure 12).

21. Position a new gasket onto the exhaust manifold studs (Figure 12).

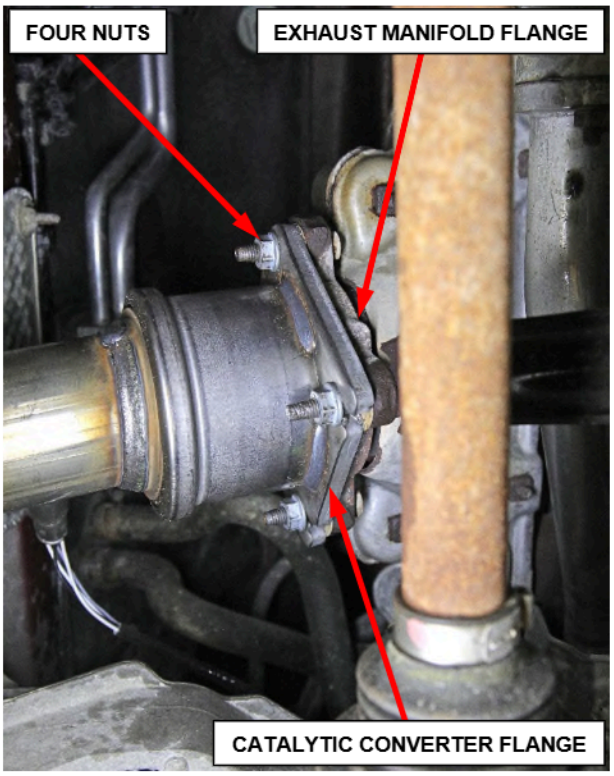
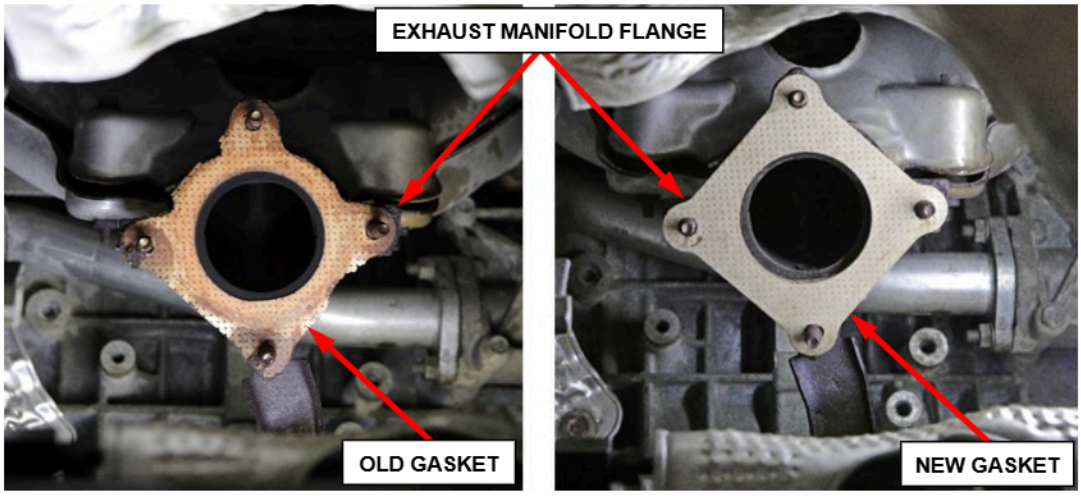


Figure 11 – Catalytic Converter to Exhaust Manifold Fasteners



(Remove Gasket and Clean Flange) **(Install New Gasket)**

Figure 12 – Replace Gasket - Catalytic Converter to Exhaust Manifold

Service Procedure [Continued]

22. Install the new upstream and downstream oxygen sensors into the new catalytic converter. Tighten the new oxygen sensors to 41 N·m (30 ft. lbs.) (Figure 13).

23. Loosely attach the new catalytic converter with oxygen sensors installed to the exhaust manifold using new nuts, but do not tighten the nuts at this time (Figure 11).

24. Loosely install the muffler resonator pipe assembly to the catalytic converter.

25. Install the rubber support isolators to the muffler resonator pipe supports (Figures 9 and 10).

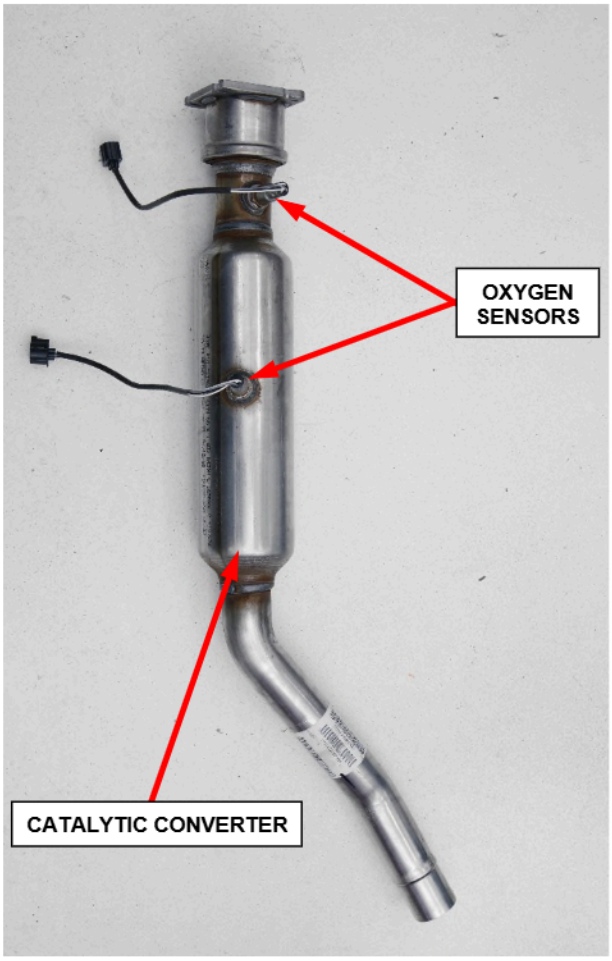


Figure 13 – Catalytic Converter with Oxygen Sensors Installed

26. Align the exhaust system to maintain position and proper clearance with underbody parts. All support isolators should have equal load on them. Tighten the new catalytic converter flange nuts to 28 N·m (21 ft. lbs.) (Figure 11).

27. Tighten the muffler resonator pipe assembly band clamp to 54 N·m (40 ft. lbs.) (Figure 9).

Service Procedure [Continued]

28. If equipped, connect the ground strap to the exhaust system.

29. Check the exhaust system for contact with the body panels. Make the necessary adjustments, if needed.

30. ***If equipped:*** Install the engine compartment belly pan (Figure 1 or 7).

31. ***(MK) Jeep Patriot, Jeep Compass and (PM) Dodge Caliber vehicles:*** Connect the downstream oxygen sensor electrical connector (Figure 6).

32. Position any disconnected oxygen sensor wire harness connectors toward the engine compartment for easier reach to connect within the engine compartment after the vehicle is lowered.

33. Lower the vehicle.

34. ***(JC) Dodge Journey and (JS) Dodge Avenger, Chrysler 200 vehicles:*** Connect the downstream oxygen sensor electrical connector (Figure 5).

35. ***All vehicles*:** Connect the upstream oxygen sensor electrical connector (Figures 5 and 6).

36. ***(JC) Dodge Journey and (JS) Dodge Avenger, Chrysler 200 vehicles:*** Connect the negative battery cable terminal to the remote battery post. Tighten the nut to 28 N·m (18 ft. lbs.) (Figure 4).

37. ***(MK) Jeep Patriot, Jeep Compass and (PM) Dodge Caliber vehicles:*** Connect the negative battery cable to the battery. Tighten the cable clamp nut to 5 N·m (45 in. lbs.).

38. Proceed to **Section B. Update the PCM Software Level**.

Service Procedure [Continued]

B. Update the PCM Software Level:

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. 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 micro pod II 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.

Service Procedure [Continued]

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. Cycle the ignition to the "**OFF**" position for 30 seconds then back to the "**RUN**" position before clearing any DTCs that may have been set in any module during the flash process. 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 micro pod II device from the vehicle.

16. Remove the battery charger from the vehicle.

17. ***(MK) Jeep Patriot, Jeep Compass and (PM) Dodge Caliber vehicles:*** Install the air cleaner inlet (Figure 3).

18. Start the engine and inspect for catalytic converter exhaust leaks. Correct any leaks as necessary.

19. Proceed to **Section C. Install the Authorized Modifications Label**.

Service Procedure [Continued]

C. Install the Authorized Modifications Label:

1. Type or print (with a ballpoint pen) the necessary information shown in (Figure 14) onto the authorized modifications Label.

2. Remove the paper backing from the clear film on the front of the authorized modifications label then carefully apply the clear film over the front of the authorized modifications label (Figure 15).

   NOTE: The Authorized Modifications Label should be located near the Vehicle Emission Control Information (VECI) label (Figure 16).

3. Locate the VECI label on the underside of the engine compartment hood (Figure 16).

   NOTE: For vehicles missing a VECI label, locate a flat protected area on the underside of the hood to apply the authorized modifications label.

4. Clean the surface near the VECI label with isopropyl alcohol or equivalent and a soft cloth.

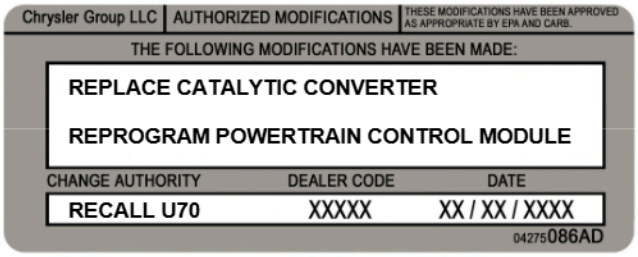


Figure 14 – Authorized Modifications Label

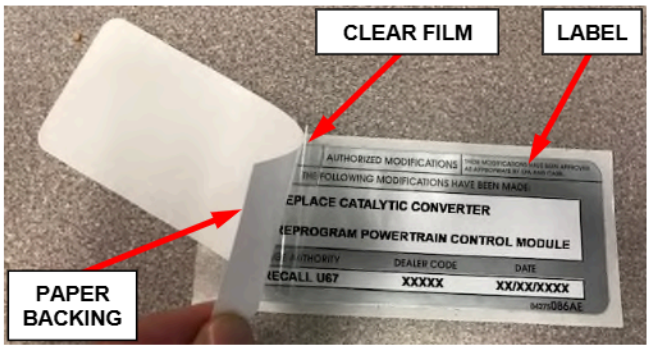


Figure 15 – Apply Clear Film

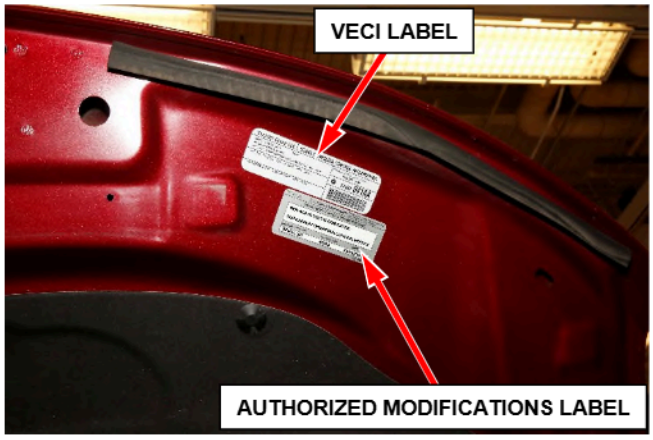


Figure 16 – Apply Authorized Modifications Label Near VECI Label (Specific Vehicle May Look Different)

Service Procedure [Continued]

5. Remove the authorized modifications label from its paper backing.
6. Apply the authorized modifications label next to the VECI label (Figure 16).
7. Firmly press and smooth the authorized modifications label to ensure good adhesion.
8. Close the engine compartment hood.
9. Prepare removed catalyst for core return, **Section E**.

Service Procedure [Continued]

E. Prepare Catalyst for Core Return:

NOTE: Catalytic converter catalyst must be intact and all pipes must be completely removed prior to core return. It is not necessary to remove Oxygen (O2) sensors for catalyst core return.

NOTE: Mopar® will reimburse only 50% of the core deposit on returns that do not comply with the above requirement.

1. Cut the inlet and outlet pipes off of the catalyst as close to the pipe weld as possible (Figure 17).

2. Return only the catalyst section for core deposit credit. Discard / recycle the pipes cut off of the catalyst section (Figure 17).

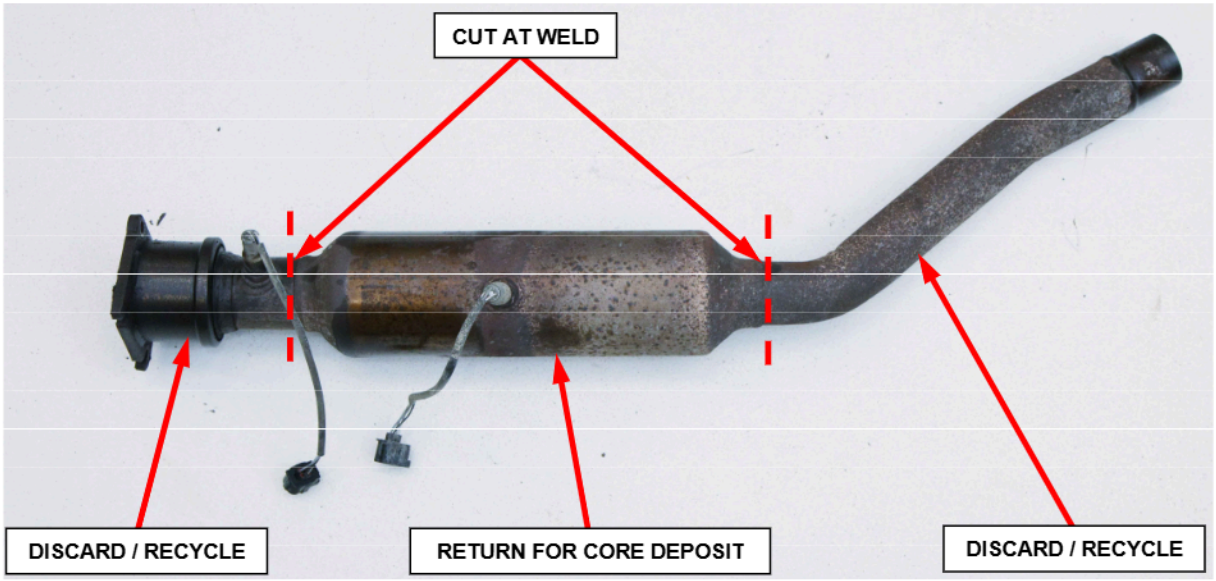


Figure 17 – Remove Pipes from Catalyst for Core Return

For any questions relating to Core Returns

Please call GCRS Customer Service Toll-Free at 866-254-2940

or

Submit your inquiry on Dealer Connect under Parts>Contact Global Core Returns

Completion Reporting and Reimbursement

DealerCONNECT Claim Entry Screen located on the Service tab. Claims submitted will be used by FCA Canada to record recall service completions and provide dealer payments.

Parts listed on any campaign are required for the repair but may not always be eligible for reimbursement. As stated in the Service Administration Manual; Normal shop supplies, such as general-purpose cleaners, solvents, lubricants, etc. submitted on claims are subject to non-payment or chargeback.

Use the following labor operation numbers and time allowances:

	Labour Operation Number	**Time Allowance**
Inspection: Compare Engine Identification Number to VIN	11-U7-0L-81	0.2 hours
Replace the Catalytic Converter and Inspect PCM Software Level	11-U7-01-82	1.1 hours
Replace the Catalytic Converter and Reprogram PCM with New Software	11-U7-01-83	1.2 hours
Related:		
Remove pipe from catalyst for core return up to $3 reimbursement per vehicle for cutting supplies, bill as NPN	11-U7-01-50	0.1 hours

Owner Notification and Service Scheduling

All involved vehicle owners known to FCA Canada are being notified of the service requirement by mail. They are requested to schedule appointments for this service with their dealers. A 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 studio 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."** The VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, Postal Code, or VIN sequence.

Dealers should 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.

VIN lists may contain confidential, restricted owner name and address information. Use of this information is permitted for this notification 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.

FCA Canada Inc.

J.D. Kiritsis
National Service and Parts Manager

EMISSIONS

URGENT VEHICLE RECALL
Your vehicle has an emissions recall.
RAPPEL URGENT DU VÉHICULE
Votre véhicule a un rappel d'emissions.

FCA
FIAT CHRYSLER AUTOMOBILES

EMISSIONS RECALL U70
CATALYTIC CONVERTER EFFICIENCY

Dear Vehicle Owner:

This Notice is sent to you in accordance with the Canadian Environmental Protection Act.

FCA CANADA INC. HAS DETERMINED THAT CERTAIN 2011-2016 MODEL YEAR (JC) DODGE JOURNEY, 2011-2014 MODEL YEAR (JS) DODGE AVENGER, CHRYSLER 200, 2011-2016 MODEL YEAR (MK) JEEP COMPASS, JEEP PATRIOT, 2011 AND 2012 MODEL YEAR (PM) DODGE CALIBER VEHICLES EQUIPPED WITH A 2.0L OR A 2.4L ENGINE MAY RELEASE AIR POLLUTANTS WHICH EXCEED THE CANADIAN ENVIRONMENTAL PROTECTION ACT EMISSION STANDARDS.

Your vehicle must be repaired because:

The Catalytic Converter on your vehicle may exceed NOx (Oxides of Nitrogen) emission level standards due to loss of Catalytic Converter efficiency due to the combination of precious metal usage, washcoat technology and sulfur levels in the fuel.

We apologize for any inconvenience and thank you for your attention to this **very important** matter.

FCA Canada Inc.
National Service and Parts Manager

What You Must Do To Ensure Your Safety:

Contact an authorized FCA Canada dealer to schedule a service appointment.

What Your Dealer Will Do:

FCA will repair your vehicle free of charge. To do this, your dealer will replace the Catalytic Converter and update the software level on the Powertrain Control Module (PCM).

FREQUENTLY ASKED QUESTIONS

WHERE CAN I FIND MORE INFORMATION ON THIS RECALL OR ANY OTHER RECALL AFFECTING MY VEHICLE?

By Web:	recalls.mopar.ca
By Phone:	(800) 465-2001
By Email:	www.fcacanada.ca/en/contact_us.php
By Mail:	FCA Canada Customer Care Centre P.O. Box 1621, Windsor, ON N9A 4H6

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 will still be required to have the campaign performed by an authorized FCA Canada dealer at no charge to you. Once completed, please send your original receipts and/or adequate proof of payment along with the campaign invoice to the following address for **further review of possible reimbursement**: FCA Canada Customer Care Centre, P.O. Box 1621, Windsor, ON N9A 4H6.

HOW DO I UPDATE MY NAME AND ADDRESS OR IF I NO LONGER OWN THIS VEHICLE?
Contact the Customer Name & Address Call Centre at 1-800-373-1474 to update your information.

FCA IS THE MANUFACTURER OF THE FOLLOWING

ALFA ROMEO · CHRYSLER · DODGE · FIAT · Jeep · RAM · MOPAR