



Revision (5) December 2022

Dealer Service Instructions for:

# Emissions Recall U90

## Catalyst Efficiency

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**NOTE: 2015 model year KL, PF, and UF Partial Zero Emission Vehicle (PZEV) vehicles have been added to this campaign.**

### Remedy Available

**2016 (KL) Jeep® Cherokee**

**2015 (KL) Jeep® Cherokee (PZEV only)**

**2016 (PF) Dodge Dart**

**2015 (PF) Dodge Dart (PZEV only)**

**2016 (UF) Chrysler 200**

**2015 (UF) Chrysler 200 (PZEV only)**

**2016 (BU) Jeep® Renegade**

**2016 (FB) Fiat 500X**

**2016 (VM) Ram ProMaster City**

*NOTE: This recall applies only to the above vehicles equipped with a 2.4L Engine (Sales Codes ED6, ED8 or EDD).*

*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. Involved vehicles can be determined by using the VIP inquiry process.**

**Subject**

About 368,504 of the above vehicles may exceed tailpipe emission standards due to a loss of catalyst CO/NOx conversion efficiency resulting from the catalyst operating at high temperatures.

**Repair**

Install a new catalyst and reprogram the Powertrain Control Module (PCM) and Transmission Control Module (TCM) with the latest software.

**Parts Information**

**NOTE: ALL vehicles require campaign kit CEZGU901AA.**

<u>Part Number</u>	<u>Description</u>
CEZGU901AA	Campaign Kit

Each package contains the following components:

<u>Quantity</u>	<u>Description</u>
6	Bolt, Manifold to Engine Cylinder Head M10x1.25x30.00
2	Nut, Manifold to Engine Cylinder Head M10x1.25
2	Nut, Maniverter to Exhaust Pipe Flange M8x1.25
1	O2 Sensor – Mid-bed / Downstream
1	Gasket, Maniverter Outlet
3	Nut, Maniverter Upper Heat Shield
2	Bolt, Maniverter Upper Heat Shield
1	Bolt, Maniverter Bracket to Engine M8x1.25x25.00

**Parts Information [Continued]**

**NOTE: ONLY ONE Upstream O2 Sensor below will be required depending on vehicle application.**

<b><u>Part Number</u></b>	<b><u>Description</u></b>
<b>CEZGU906AA</b>	<b>Upstream O2 Sensor (Except PF)</b> <ul style="list-style-type: none"><li>• (UF) Chrysler 200</li><li>• (KL) Jeep Cherokee</li><li>• (VM) Ram ProMaster City</li><li>• (FB) Fiat 500X</li><li>• (BU) Jeep Renegade</li></ul>

<b><u>Part Number</u></b>	<b><u>Description</u></b>
<b>CEZGU907AA</b>	<b>Upstream O2 Sensor (PF Only)</b> <ul style="list-style-type: none"><li>• (PF) Dodge Dart</li></ul>

<b>Parts Information [Continued]</b>
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**NOTE: ONLY ONE Gasket and Heat Shield Campaign Kit below will be required depending on vehicle model.**

<u>Part Number</u>	<u>Description</u>
<b>CEZGU905AA</b>	<b>Campaign Kit (Gasket and Heat Shield)</b>

- **(UF) Chrysler 200**
- **(KL) Jeep Cherokee**
- **(PF) Dodge Dart**

Each package contains the following components:

<u>Quantity</u>	<u>Description</u>
1	Upper Heat Shield
1	Gasket, Exhaust Manifold

<u>Part Number</u>	<u>Description</u>
<b>CEZGU908AA</b>	<b>Campaign Kit (Gasket and Heat Shield)</b>

- **(VM) Ram ProMaster City**
- **(FB) Fiat 500X**
- **(BU) Jeep Renegade**

Each package contains the following components:

<u>Quantity</u>	<u>Description</u>
1	Upper Heat Shield
1	Gasket, Exhaust Manifold

<b>Parts Information [Continued]</b>
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**NOTE: ONLY ONE Maniverter Campaign Kit below will be required. Either FED or PZEV depending on vehicle emissions.**

<u>Part Number</u>	<u>Description</u>
<b>CEZGU902AB</b>	<b>Campaign Kit (Maniverter)</b>

**Equipped with: Federal (FED) emissions**

- (UF) Chrysler 200
- (KL) Jeep Cherokee
- (PF) Dodge Dart
- (VM) Ram ProMaster City
- (FB) Fiat 500X
- (BU) Jeep Renegade

Each package contains the following components:

<u>Quantity</u>	<u>Description</u>
1	Maniverter
2	Bolts, Maniverter to Outlet Bracket M8X1.25X25.00
1	Bracket, Maniverter to Outlet

<u>Part Number</u>	<u>Description</u>
<b>CEZGU903AB</b>	<b>Campaign Kit (Maniverter)</b>

**Equipped with: Partial Zero-Emissions Vehicle (PZEV)**

- (UF) Chrysler 200
- (KL) Jeep Cherokee
- (PF) Dodge Dart

Each package contains the following components:

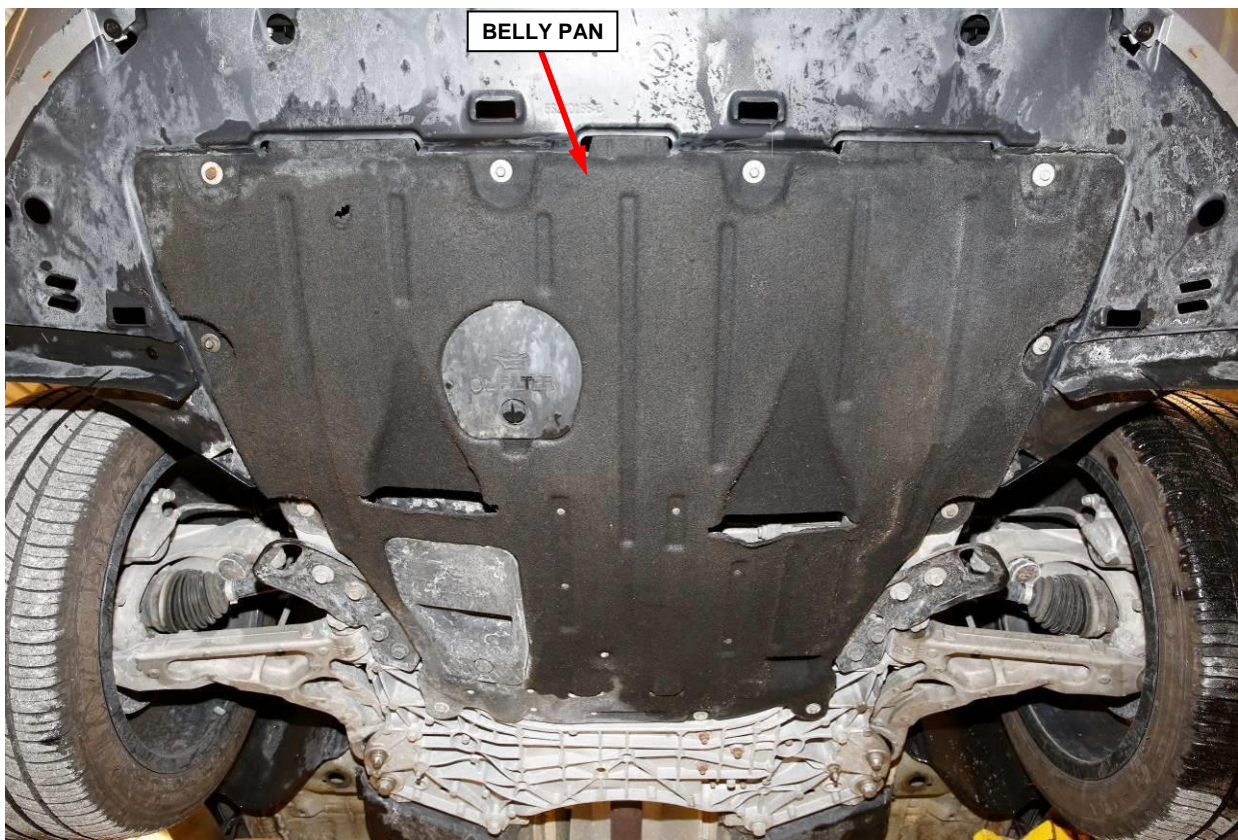
<u>Quantity</u>	<u>Description</u>
1	Maniverter
2	Bolts, Maniverter to Outlet Bracket M8X1.25X25.00
1	Bracket, Maniverter to Outlet



**Service Procedure**

**A. Replace Maniverter (Manifold / Catalytic Converter)**

1. Position the vehicle on a lift.
2. Raise and support the vehicle.
3. If equipped, remove and **SAVE** the fasteners securing the engine belly pan (Figure 1).
4. If equipped, remove and **SAVE** the engine belly pan (Figure 1).



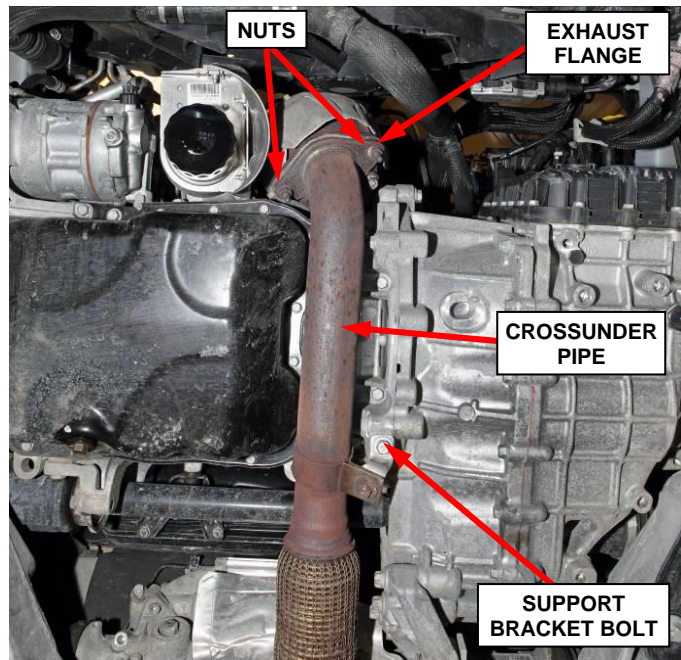
**Figure 1 – Engine Belly Pan**



**Service Procedure [Continued]**

**WARNING:** The maniverter and exhaust pipes become very hot during engine operation. Allow engine to cool before removing exhaust system components. Failure to allow engine to cool before removal may result in personal injury caused by burns.

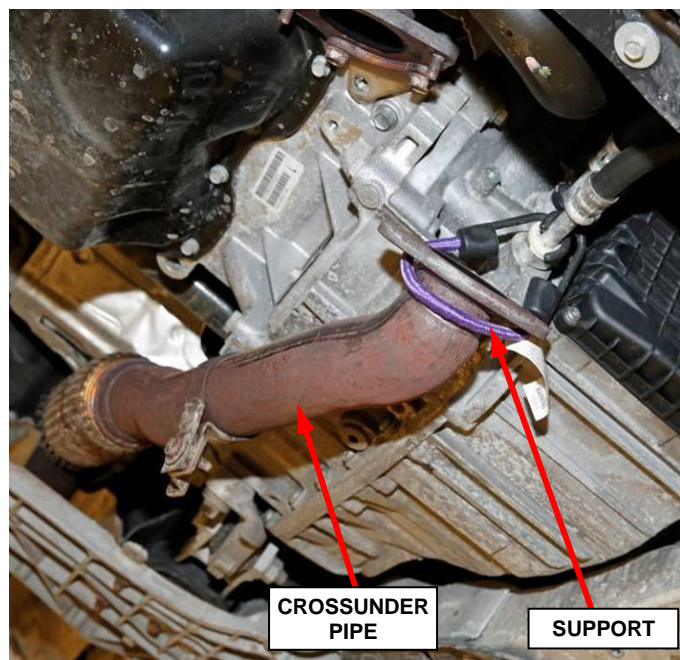
5. Remove and **SAVE** the bolt securing the exhaust crossunder pipe support bracket to the transmission (Figure 2).



**Figure 2 – Crossunder Pipe**

6. Remove the and **DISCARD** the two nuts securing the exhaust flange crossunder pipe to the maniverter (Figure 2).

7. Disconnect the exhaust crossunder pipe from the maniverter and support the exhaust crossunder pipe to prevent damage to the flex joint (Figure 3).

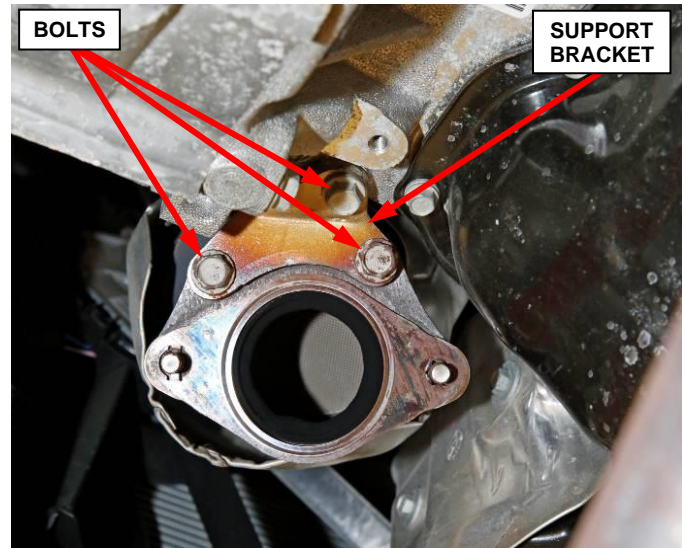


**Figure 3 – Support Crossunder Pipe**

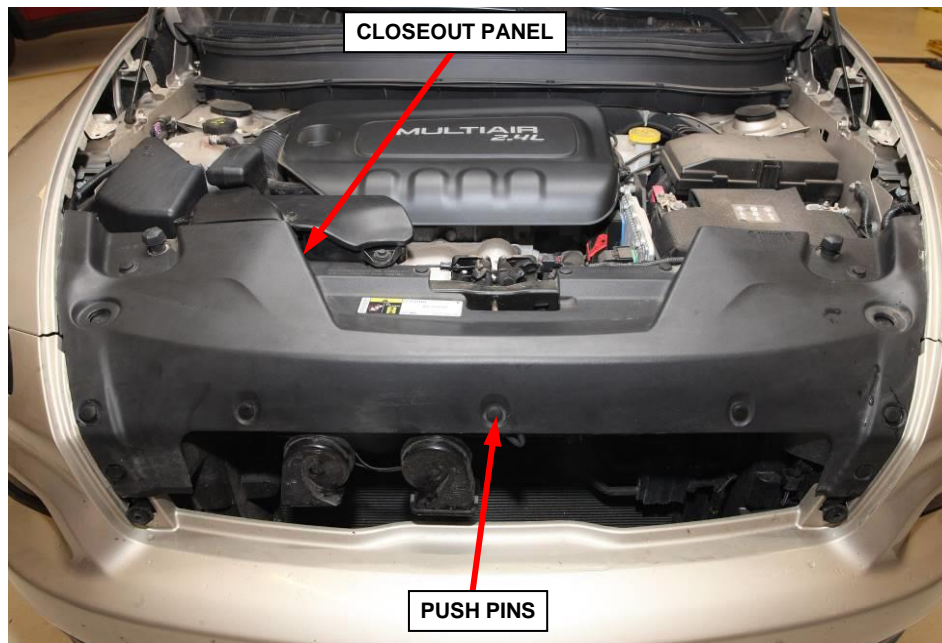


**Service Procedure [Continued]**

8. Remove the and **SAVE** the bolt securing the maniverter lower support bracket to the engine oil pan (Figure 4).
9. Remove the and **DISCARD** the two bolts securing the maniverter lower support bracket to the maniverter and **DISCARD** the support bracket (Figure 4).

**Figure 4 – Maniverter Support Bracket**

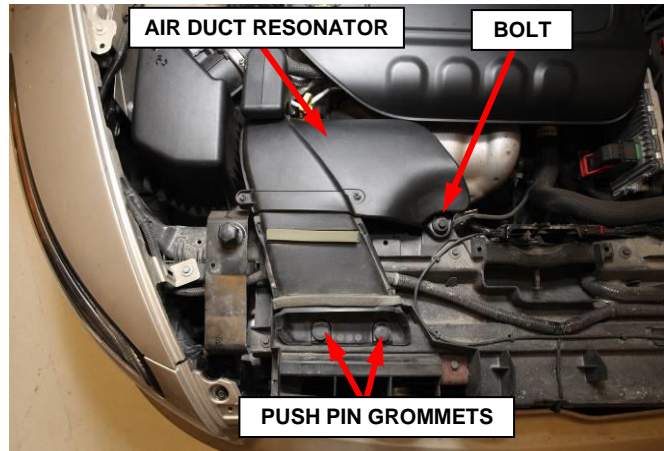
10. Lower the vehicle.
11. **(KL) Jeep Cherokee Only:** Remove push pin fasteners then remove closeout panel (Figure 5).

**Figure 5 – Closeout Panel  
(KL) Jeep Cherokee**

**Service Procedure [Continued]**

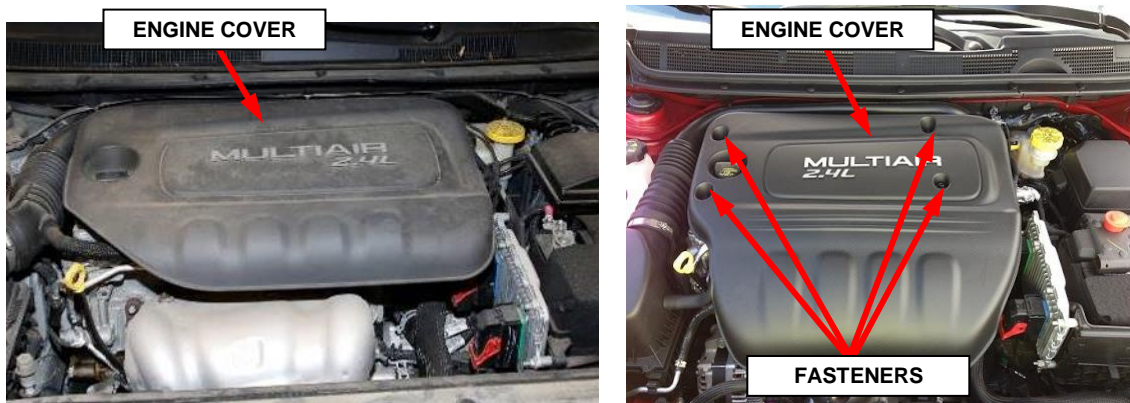
12. **(KL) Jeep Cherokee Only:** Remove one bolt and release air duct resonator assembly from the two push pin grommets, then remove the air duct resonator assembly from the vehicle (Figure 6).

**NOTE:** Air duct resonator assembly is slotted to slide onto the push pin grommets. It is not necessary to remove the push pin grommets.



**Figure 6 – Air Duct Resonator  
(KL) Jeep Cherokee**

13. Release the engine cover from the ball studs if applicable or remove and **SAVE** the four fasteners if applicable, then remove and **SAVE** the engine cover (Figure 7).



**Figure 7 – Engine Cover**

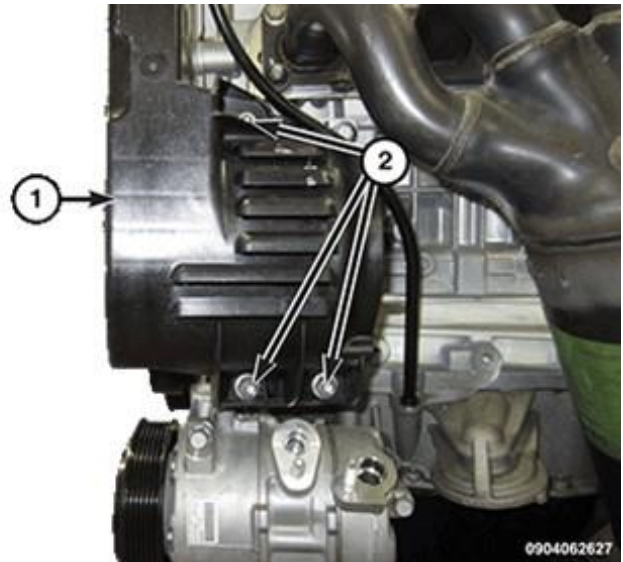
14. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable.

**Service Procedure [Continued]**

15. (VM) **Ram ProMaster City Only:** Remove the bolt (1) securing the top of the accessory drive belt guard (2) (Figure 8).

**Figure 8 – Belt Guard**

16. (VM) **Ram ProMaster City Only:** Remove three nuts (2) and reposition the belt cover (1) (Figure 9).

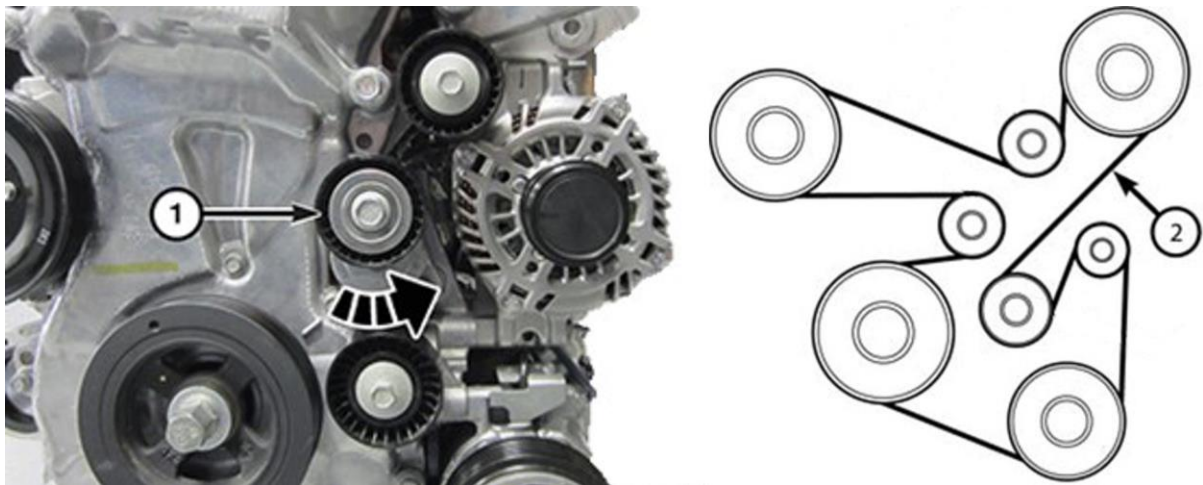
**Figure 9 – Belt Guard**



**Service Procedure [Continued]**

**CAUTION:** Do not let the tensioner arm snapback to the fully extended position, severe damage may occur to the tensioner.

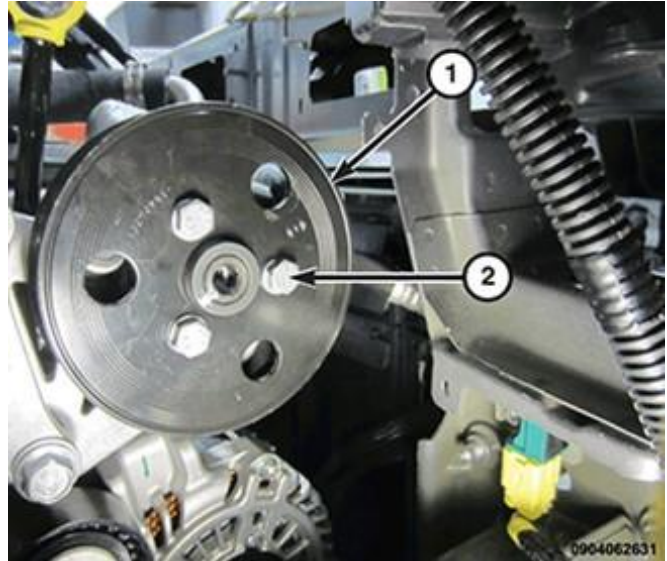
17. **(VM) Ram ProMaster City Only:** Decrease the belt tension by rotating the center bolt of the tensioner pulley (1) counterclockwise, lift the belt (2) off one of the pulleys and reposition the accessory drive belt then slowly release the tensioner to the fully extended position (Figure 10).



**Figure 10 – Accessory Belt**

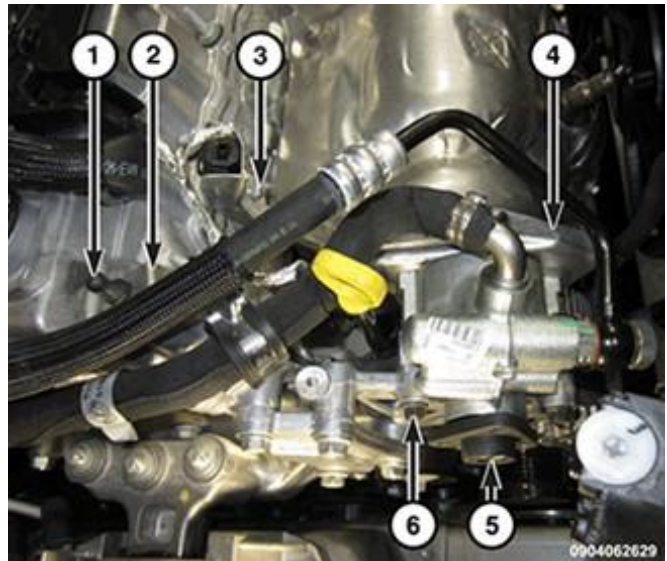
**Service Procedure [Continued]**

18. **(VM) Ram ProMaster City Only:** Remove the three bolts (2) and the power steering pump pulley (1) (Figure 11).



**Figure 11 – Pump Pulley**

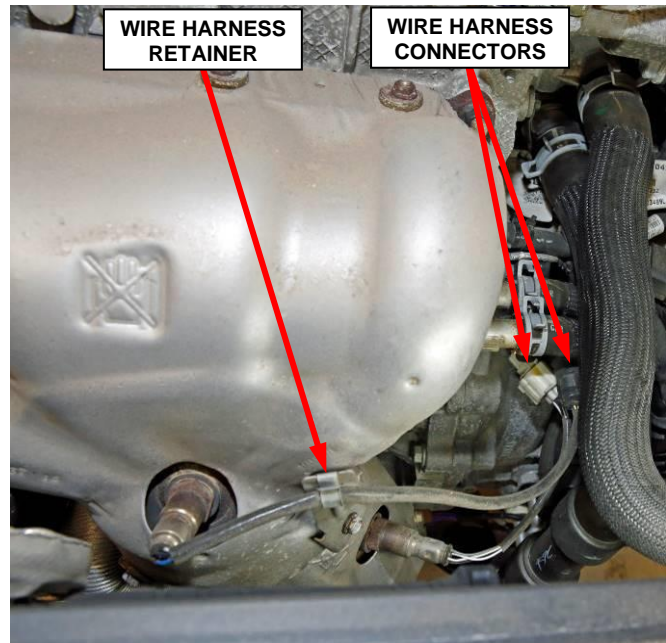
19. **(VM) Ram ProMaster City Only:** Remove the nut (3) from the power steering pump support bracket (4) (Figure 12).
20. **(VM) Ram ProMaster City Only:** Remove the three bolts (6) and reposition the power steering pump (5) (Figure 12).



**Figure 12 – Power Steering Pump**

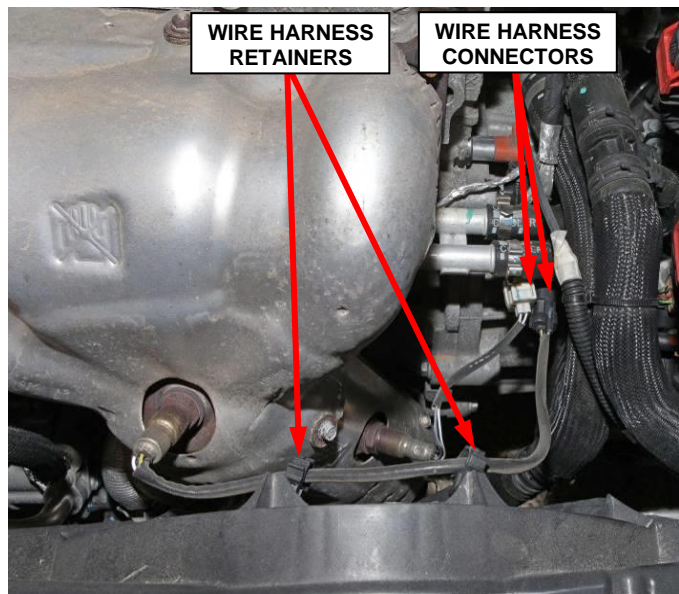
**Service Procedure [Continued]**

21. Disconnect the upstream oxygen sensor and downstream oxygen sensor wire harness connectors (Figure 13 or 14).



**Figure 13 – Oxygen Sensors Electrical (UF) Chrysler 200, (BU) Jeep Renegade, (KL) Jeep Cherokee, (FB) Fiat 500X, (VM) Ram Promaster City**

22. Disengage the upstream oxygen sensor wire harness from the retainer(s) (Figure 13 or 14).

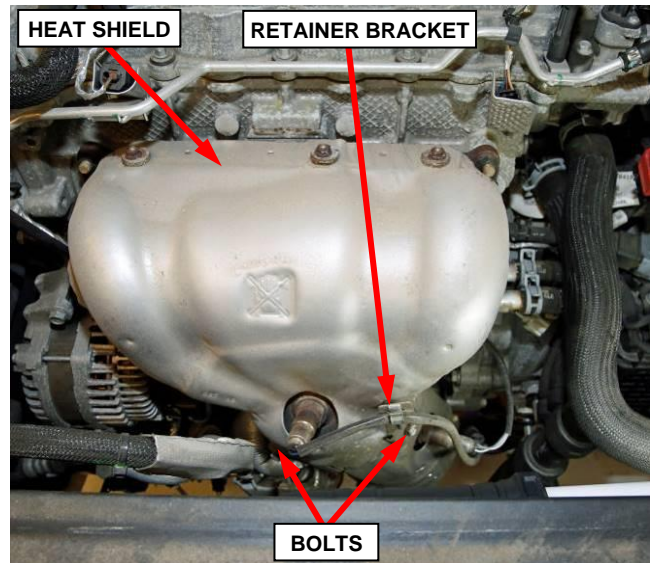


**Figure 14 – Oxygen Sensors Electrical (PF) Dodge Dart**



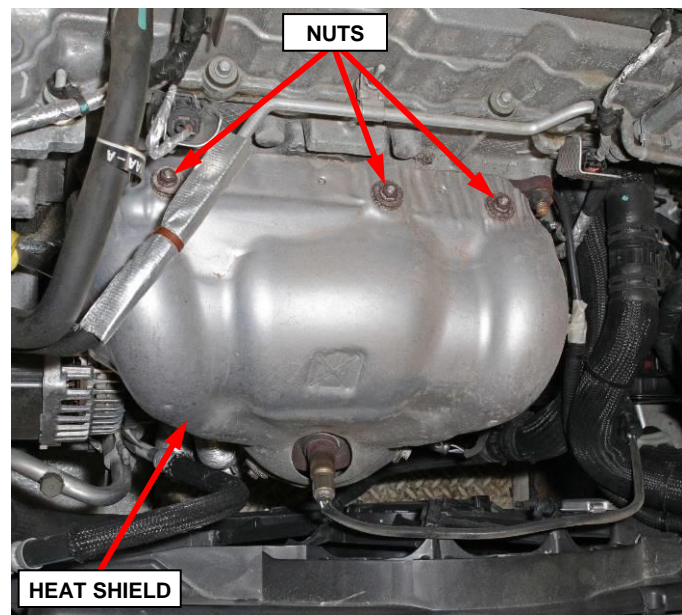
**Service Procedure [Continued]**

23. Remove and **DISCARD** the two upper heat shield bolts and if applicable, **SAVE** the oxygen sensor wire harness retainer bracket (Figure 15 or 16).



**Figure 15 – Maniverter Heat Shield  
(UF) Chrysler 200, (BU) Jeep Renegade,  
(KL) Jeep Cherokee, (FB) Fiat 500X,  
(VM) Ram Promaster City**

24. Remove and **DISCARD** the maniverter upper heat shield nuts, then remove and **DISCARD** the maniverter upper heat shield (Figure 15 or 16).



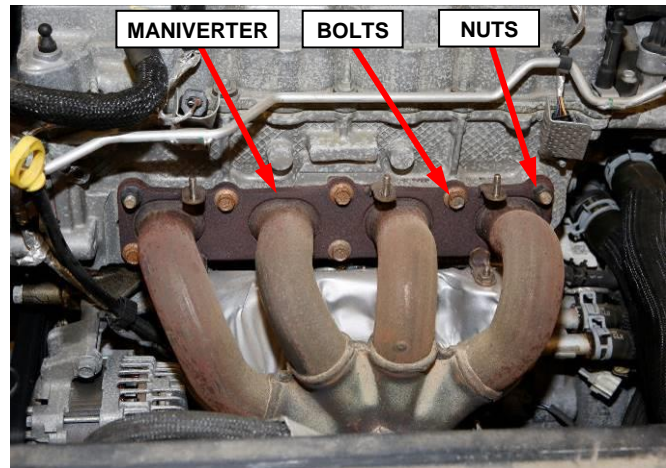
**Figure 16 – Maniverter Heat Shield  
(PF) Dodge Dart**



**Service Procedure [Continued]**

**CAUTION:** Use care when removing the bolts that secure the maniverter to the engine cylinder head. Aluminum cylinder head fastener threads are susceptible to damage if the bolts are not removed with care. Use hand tools **ONLY**.

**NOTE:** Use compressed air or other method to clean loose debris away from exhaust manifold before removal.



**Figure 17 – Maniverter to Engine**

25. Remove the fasteners, six bolts and two nuts, securing the maniverter to the engine cylinder head (Figure 17).

**NOTE:** Pay attention to the bolts for signs of thread loss or bolt breakage as they are removed and note which hole they came from (Figure 18).

26. Inspect the bolts and bolt holes for any signs of thread loss then **DISCARD** the bolts (Figure 18).

- If bolt holes do not show signs of thread loss, proceed to **Step 29**.
- If bolt holes show signs of thread loss, continue with **Step 27**.
- If a bolt is broken off in the hole, proceed to **Step 28**.

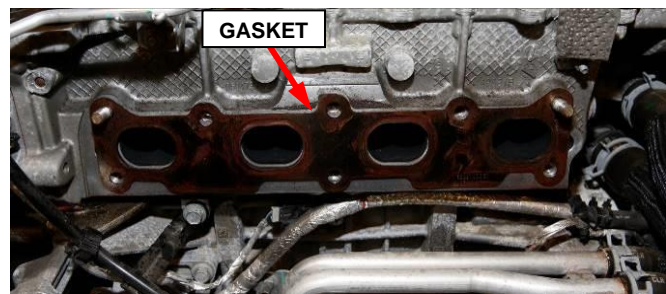


**Figure 18 – Inspect for Thread Loss**

**Service Procedure [Continued]**

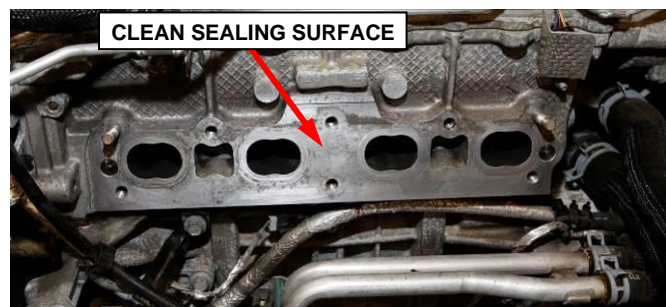
27. If thread loss is suspected, use compressed air to remove any debris from the suspect bolt hole. With the old maniverter and gasket still in place on the engine head, install a **NEW** exhaust manifold bolt in the suspect hole and tighten the bolt to 34 N·m (25 ft. lbs.) to determine if proper torque can be achieved.
- If the bolt is able to be tightened to 34 N·m (25 ft. lbs.), no further action is required. Remove the bolt and proceed to **Step 29**.
  - If the bolt hole threads are stripped allowing the bolt to rotate, unable to achieve proper torque, remove the bolt and continue with **Step 28**.
28. For stripped hole(s) or broken bolt(s), submit a collateral damage claim to obtain authorization for installing a helicoil in the damaged hole(s). Remove the maniverter and gasket following **Steps 29 - 31**. Then use the special tool **2073500090 - Kit, Cylinder Head Thread Repair - 2.4L MAIR** to perform the helicoil thread repair operation by following the service instructions published in **DealerCONNECT / Service Library / Engine, 2.4L Multiair / Standard Procedure / Exhaust Manifold Fastener Hole Repair**. After the damaged bolt hole(s) have been repaired with helicoil(s), proceed with **Step 32**.

29. Remove the maniverter out the top of the engine compartment and retain the maniverter for core return.



**Figure 19 – Maniverter Gasket**

30. Remove and **DISCARD** the exhaust manifold gasket (Figure 19).



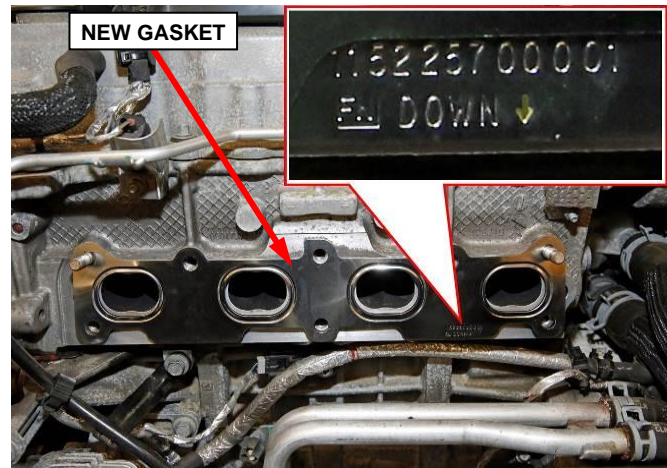
**Figure 20 – Clean Sealing Surface**

31. Clean the exhaust manifold gasket sealing area of the engine cylinder head (Figure 20).



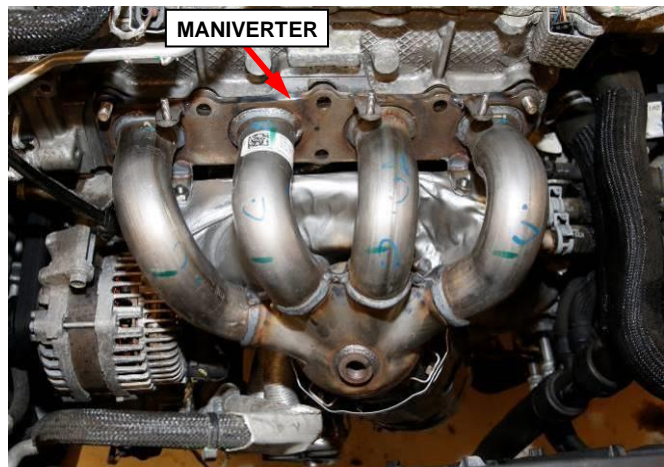
**Service Procedure [Continued]**

32. **DO NOT APPLY SEALER.** Install a **NEW** exhaust manifold gasket onto the cylinder head, taking care that the arrow shown in the figure is pointing downwards (Figure 21).



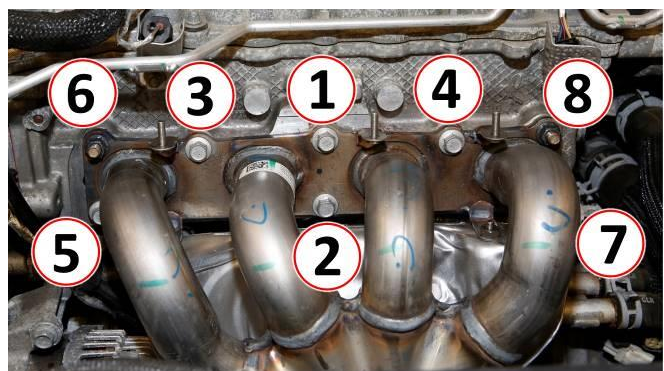
**Figure 21 – Install New Gasket**

33. Install the **NEW** maniverter through the top of the engine compartment. Set the maniverter into position (Figure 22).



**Figure 22 – Install New Gasket**

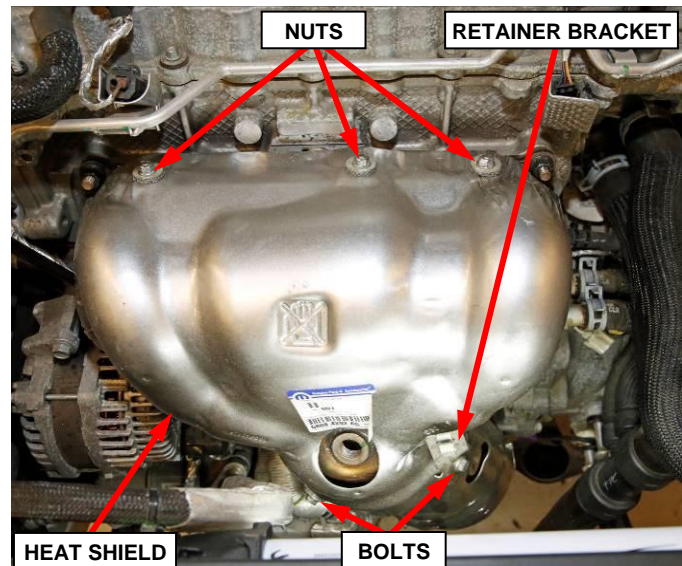
34. Install the **NEW** maniverter bolts and nuts. Following the torque sequence, tighten the maniverter fasteners to 34 N·m (25 ft. lbs.) (Figure 23).



**Figure 23 – Torque Sequence**

**Service Procedure [Continued]**

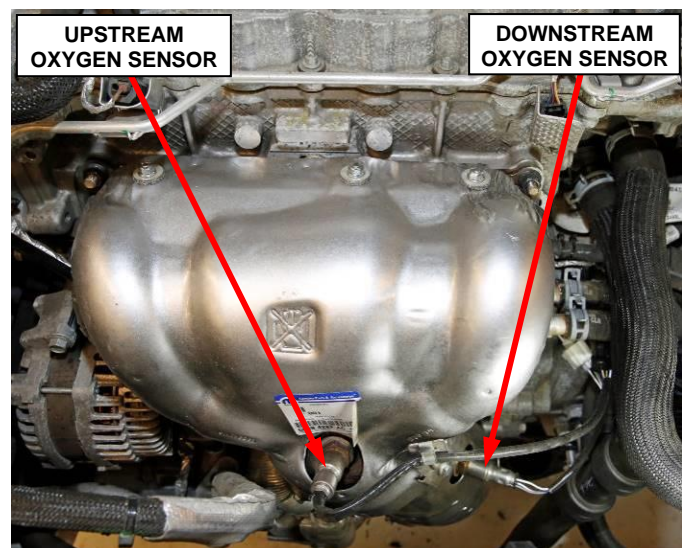
35. Install the **NEW** upper heat shield to the maniverter (Figure 24).
36. If applicable, position the wire harness retainer to the heat shield (Figure 24).
37. Install the two **NEW** heat shield bolts. Tighten the heat shield bolts to 12 N·m (8 ft. lbs.) (105 in. lbs.) (Figure 24).

**Figure 24 – Maniverter Heat Shield**

38. Install the three **NEW** heat shield nuts. Tighten the heat shield nuts to 12 N·m (8 ft. lbs.) (105 in. lbs.) (Figure 24).

**NOTE: Threads of new oxygen sensors are factory coated with anti-seize compound to aid in removal. DO NOT add any additional anti-seize compound to threads of a new oxygen sensor.**

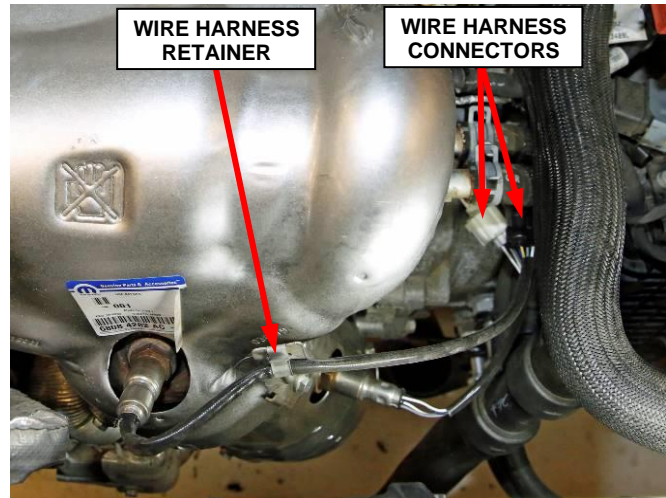
39. Install the **NEW** upstream oxygen sensors with black connector and **NEW** downstream oxygen sensors with white connector to the mainverter. Tighten the oxygen sensors to 49 N·m (36 ft. lbs.) (Figure 25).

**Figure 25 – Oxygen Sensors**



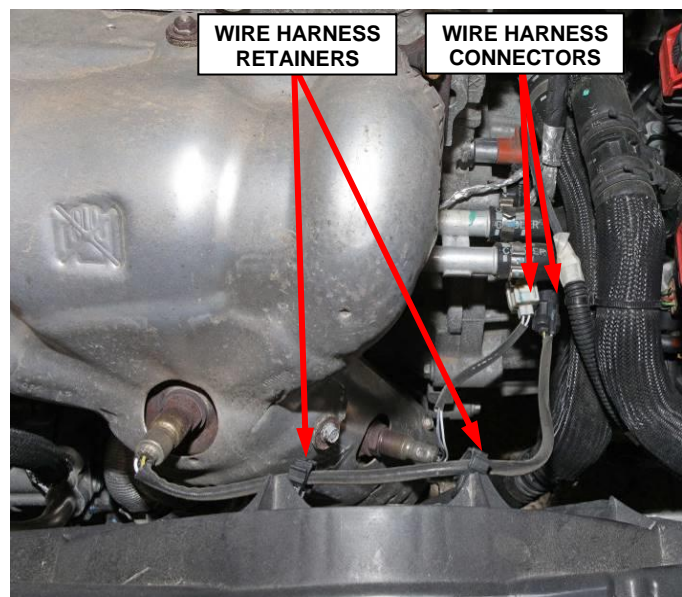
**Service Procedure [Continued]**

- 40. Connect the upstream oxygen sensor and downstream oxygen sensor wire harness connectors (Figure 26 or 27).



**Figure 26 – Oxygen Sensors Electrical (UF) Chrysler 200, (BU) Jeep Renegade, (KL) Jeep Cherokee, (FB) Fiat 500X, (VM) Ram Promaster City**

- 41. Install the upstream oxygen sensor wire harness to retainer(s) (Figure 26 or 27).



**Figure 27 – Oxygen Sensors Electrical (PF) Dodge Dart**

**Service Procedure [Continued]**

42. **(VM) Ram ProMaster City Only:** Position the power steering pump (5) to the support bracket then install the three bolts (6). Tighten the bolts to 44 N·m (32 ft. lbs.) (Figure 12).
43. **(VM) Ram ProMaster City Only:** Install the nut (3) to the power steering pump support bracket (4) and tighten the nut to 10 N·m (89 in. lbs.) (Figure 12).
44. **(VM) Ram ProMaster City Only:** Position the power steering pump pulley (1) then install the three bolts (2) and tighten to 25 N·m (18 ft. lbs.) (Figure 11).
45. **(VM) Ram ProMaster City Only:** Install the accessory drive belt (2) by positioning the belt over all of the pulleys with the exception of the tensioner pulley (1) (Figure 10).

**CAUTION: Do not let the tensioner arm snapback to the fully extended position, severe damage may occur to the tensioner.**

46. **(VM) Ram ProMaster City Only:** Rotate the center bolt of the tensioner pulley (1) counterclockwise, install the accessory drive belt (2) on the tensioner pulley (1) and slowly release the tensioner (Figure 10). Visually inspect the belt to pulley alignment.
47. **(VM) Ram ProMaster City Only:** Install the belt cover (1) with three nuts (2) then tighten the nuts to 8 N·m (71 in. lbs.) (Figure 9).
48. **(VM) Ram ProMaster City Only:** Secure the top of the accessory drive belt guard (2) with the bolt (1) tightened to 8 N·m (71 in. lbs.) (Figure 8).

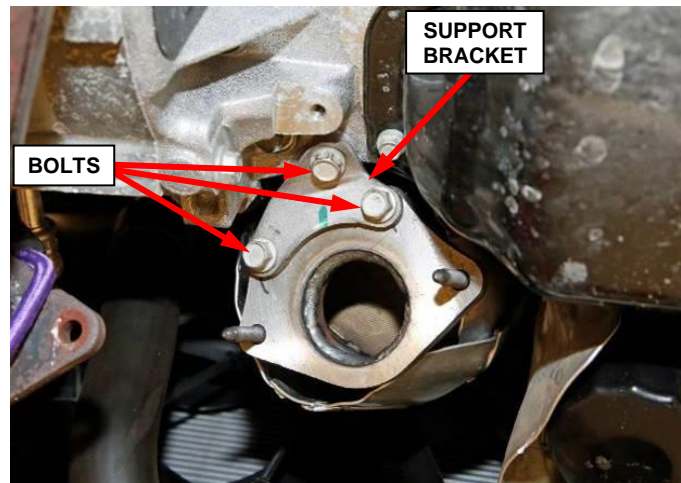
**Service Procedure [Continued]**

49. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), Connect the IBS connector after connecting the negative battery cable.
50. Position the engine cover onto the ball studs. Using hands only, press down on the top of the engine cover to engage the ball studs (Figure 7).
51. **(KL) Jeep Cherokee Only:** Install the air duct resonator assembly to the two push pin grommets on the vehicle (Figure 6).
52. **(KL) Jeep Cherokee Only:** Install the closeout panel and push pin fasteners (Figure 5).

53. Close the hood.

51. Raise and support the vehicle.

55. Install the **NEW** catalytic converter lower support bracket to the engine oil pan using the bolt saved from the removal step. Do not tighten the bolt at this time (Figure 28).



**Figure 28 – Maniverter Outlet Bracket**

56. Install two **NEW** bolts securing the lower support bracket to the catalytic converter. Tighten all three catalytic converter lower support bracket bolts to 20 N·m (15 ft. lbs.) (Figure 28).



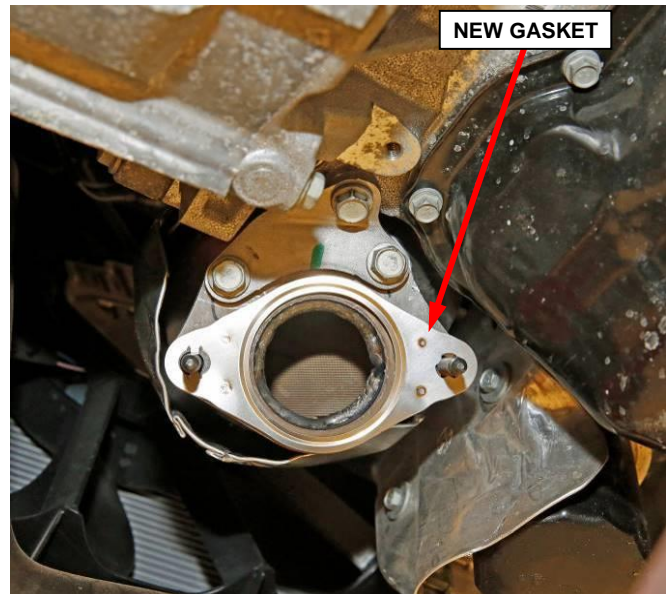
**Service Procedure [Continued]**

57. Clean the exhaust crossunder pipe flange sealing surface (Figure 29).



**Figure 29 – Crossunder Pipe Flange**

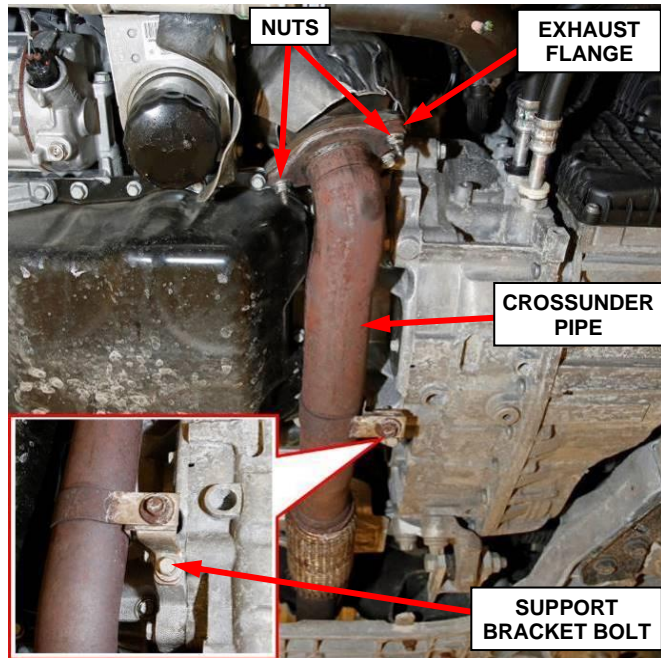
58. Install the **NEW** exhaust flange gasket to the maniverter (Figure 30).



**Figure 30 – Exhaust Flange Gasket**

**Service Procedure [Continued]**

59. Position the exhaust crossunder pipe to the catalyst flange (Figure 31).
60. Install the two **NEW** nuts securing the exhaust flange crossunder pipe to the maniverter. Tighten the nuts to 19 N·m (14 ft. lbs.) (Figure 31).
61. Install the bolt securing the exhaust crossunder pipe support bracket to the transmission. Tighten the bolt to 20 N·m (15 ft. lbs.) (Figure 31).

**Figure 31 – Crossunder Pipe**

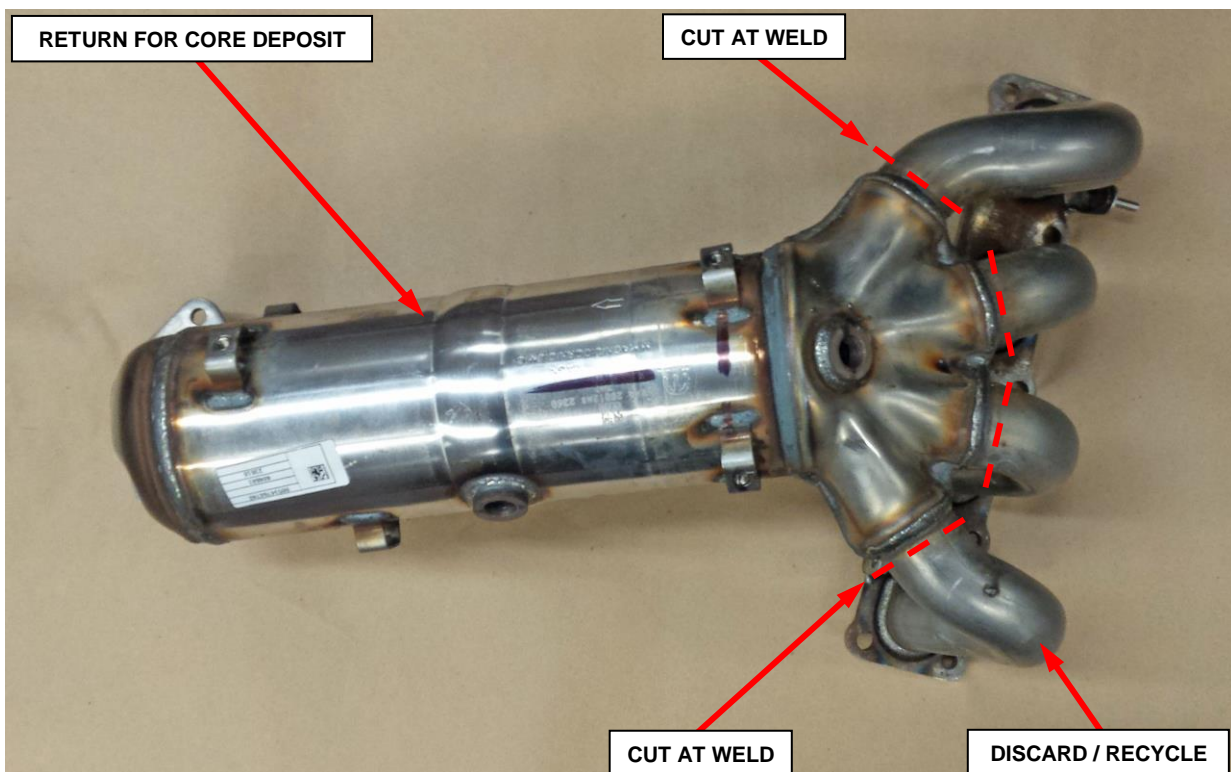
62. If equipped, position the engine belly pan to the underside of the vehicle (Figure 1).
63. If equipped, install the fasteners securing the engine belly pan. Tighten the fasteners securely (Figure 1).
64. Lower the vehicle.
65. Initialize the steering. Start the engine, then turn the steering wheel from one lock to the other and then turn it back into the center position. Turn the engine off.

**Service Procedure [Continued]**

66. **Ram ProMaster City:** Set the clock within the Uconnect radio/information center:
  - a. Press the “**Settings**” button on the faceplate to display the menu.
  - b. Select “**Clock & Date**” from the settings menu.
  - c. Set the “**date**” and “**time**” or select “**Sync Time**” if available.
  - d. Exit the “**Settings**” menu.
  
67. Proceed to **Section B. Prepare Maniverter for Core Return.**

**Service Procedure [Continued]****B. Prepare Maniverter For Core Return**

1. Removal of upper rear heat shield may improve access for cutting of runner pipes. Removal of heat shields and oxygen sensors are not required for catalyst recycling core return credit.
2. Cut the four runner pipes from the maniverter as close to the weld seam as possible (Figure 32).
3. Separate the manifold portion from the catalyst. Discard/recycle the manifold portion and return the catalyst portion for core return credit (Figure 32).
4. Proceed to **Section C. Reprogram the ECM and TCM with the Latest Software**

**Figure 32 – Maniverter Cut/Remove Pipes**

<b>Service Procedure</b>
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### **C. Reprogram the ECM and TCM with the Latest Software**

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

**CAUTION:** Both the PCM and TCM software must be at the latest software calibration level after completing this recall. Failure to do so may result in undesirable transmission shift quality. First the PCM must be reprogrammed; second the TCM must be programmed.

**NOTE:** (PF) only, TCM software is not coordinated to PCM software, so TCM software flash is not applicable to (PF) vehicles for this campaign.

1. Open the hood and install a battery charger. 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 MicroPod 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.

**Service Procedure [Continued]**

7. From the “**Action Items**” screen, select the “**Topology**” tab.
  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**”.
- NOTE: (PF) only, TCM software is not coordinated to PCM software, so TCM software flash is not applicable to (PF) vehicles for this campaign. For (PF) vehicles skip to Step 25.**
15. From the “**Action Items**” screen, select the “**Topology**” tab.
  16. From the “**Topology**” tab, select the “**TCM**” module icon.

**Service Procedure [Continued]**

17. 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 22**.
  - If the “**Current ECU part Number**” is NOT the same as the “**New Part Number**”, continue with **Step 18**.
  
18. From the TCM tab, select the TCM flash part number. Read the flash special instructions page. Select “**OK**” to continue.
  
19. From the flash ECU agreement page, agree to terms by checking the box.
  
20. Select “**Flash ECU**” and then follow the wiTECH screen instructions to complete the flash.
  
21. Confirm the software is at the latest available calibration level.
  
22. Click “**View DTCs**”, select “**Clear All DTCs**”, click “**Continue**” and then click “**Close**”.
  
23. Using wiTECH, navigate to the TCM data and locate the transmission fill and fast fill counters.
  - **If all counters have a value greater than zero**, proceed to **Step 25**.
  - **If all counters have a value equal to zero**, continue with “**Quick Learn**” **Step a**.



**Service Procedure [Continued]**

- a. Select the “**Quick Learn**” procedure then follow the on-screen instructions to reset and learn the clutch adaptive values.

**NOTE: If the “Quick Learn” option does not appear on wiTECH and both the TCM and PCM were just updated, restart the wiTECH application which should now be populated with the “Quick Learn” option.**

**NOTE: If the vehicle is equipped with the start/stop feature (sales code XBU) it must be disabled prior to performing the quick learn procedure. To disable, press the on/off switch located on the center switch bank near the HVAC controls.**

- b. Click “**View DTCs**”, select “**Clear All DTCs**”, click “**Continue**” and then click “**Close**”.
- 
25. All vehicles equipped with Electronic Power Steering (ESP) perform the ESP verification test.
    - a. Start the engine and allow it to run for two minutes.
    - b. Turn the steering wheel from stop to stop, holding at each stop position for one second.
  26. Turn the ignition off and wait five minutes.
  27. Turn the ignition on then read any DTCs.
    - If DTCs are present, determine if they are related to the repair and correct if caused by repair before proceeding.
    - No DTCs present, proceed to next step.

**Service Procedure [Continued]**

28. Place the ignition in the “**OFF**” position and then remove the wiTECH MicroPod II device from the vehicle.
  
29. Remove the battery charger from the vehicle.
  
30. Road test the vehicle for at least five minutes to confirm repair was performed properly.
  
31. Proceed to **Section D. Complete Proof of Correction Form for California Residents.**
  
32. Return the vehicle to the customer or inventory.

**Service Procedure (Continued)****D. Complete Proof of Correction Form for California Residents:**

This recall is subject to the **State of California Registration Renewal/Emissions Recall Enforcement Program**. Complete a Vehicle Emission Recall Proof of Correction Form (**Form No. 81-016-1053**) and **supply it to vehicle owners residing in the state of California** for proof that this recall has been performed when they renew the vehicle registration.

Process Steps to obtain the California Proof of Correction form:

- a. Access the “**DealerCONNECT**” website.
- b. Select the “**Service**” tab.
- c. Under the “**Publications**” heading, select the “**ePublishing**” link.
- d. Sign in using your **Dealer Code** and **Password**.
- e. Select the “**Proof of Correction form**”.

<b>Completion Reporting and Reimbursement</b>
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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:

	<b><u>Labor Operation Number</u></b>	<b><u>Time Allowance</u></b>
Replace the Catalyst, Inspect that the PCM and TCM Software is currently at the Latest Released Level.		
(KL), (BU), (FB) ONLY	09-U9-01-82	1.3 hours
(UF) ONLY	09-U9-01-82	1.4 hours
(VM) ONLY	09-U9-01-82	1.6 hours
(PF) PCM ONLY (TCM not applicable)	09-U9-01-82	1.6 hours
Replace the Catalyst, Inspect the PCM and TCM Software, Reprogram PCM Only.		
(BU), (FB) ONLY	09-U9-01-83	1.4 hours
(KL), (UF) ONLY	09-U9-01-83	1.5 hours
(VM) ONLY	09-U9-01-83	1.7 hours
(PF) PCM ONLY (TCM not applicable)	09-U9-01-83	1.7 hours
Replace the Catalyst, Inspect the PCM and TCM Software, Reprogram TCM Only.		
(BU), (FB), (KL) ONLY	09-U9-01-84	1.4 hours
(UF) ONLY	09-U9-01-84	1.5 hours
(VM) ONLY	09-U9-01-84	1.7 hours
Replace the Catalyst, Inspect and Reprogram PCM and TCM with Latest Released Level Software		
(BU), (FB) ONLY	09-U9-01-85	1.5 hours
(KL), (UF) ONLY	09-U9-01-85	1.6 hours
(VM) ONLY	09-U9-01-85	1.8 hours

<b>Completion Reporting and Reimbursement [Continued]</b>
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<u>Related Operations</u>	<u>Labor Operation Number</u>	<u>Time Allowance</u>
Perform Transaxle Quick Learn	09-U9-01-50	0.4 hours
Remove pipe from catalyst for core return up to \$3 reimbursement per vehicle for cutting supplies, bill as NPN	09-U9-01-52	0.2 hours

Add the cost of the recall parts package plus applicable dealer allowance to your claim.

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

<b>Dealer Notification</b>
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To view this notification on DealerCONNECT, select “Global Recall System” on the Service tab, then click on the description of this notification.

<b>Owner Notification and Service Scheduling</b>
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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

This notice applies to your vehicle,

[Model Year and Model]

VIN XXXXXXXXXXXXXXXXXXXX

U90

LOGO

VEHICLE PICTURE

#### YOUR SCHEDULING OPTIONS

- 1. RECOMMENDED OPTION**  
Call your authorized Chrysler / Dodge / Jeep® / RAM / BusinessLink / 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 Emissions Recall  
U90

# IMPORTANT EMISSIONS RECALL

## Catalyst Efficiency

Dear [Name],

FCA US LLC, has determined that certain [2015 - 2016 Model Year (KL) Jeep® Cherokee, 2015 - 2016 Model Year (PF) Dodge Dart, 2016 Model Year (VM) RAM ProMaster City, 2015 - 2016 Model Year (UF) Chrysler 200, 2016 Model Year (BU) Jeep® Renegade, and 2016 Model Year (FB) FIAT 500X] vehicles equipped with a 2.4L engine may release air pollutants which exceed tailpipe emission standards.

#### WHY DOES MY VEHICLE NEED REPAIRS?

Your vehicle <sup>[1]</sup> may exceed tailpipe emission standards due to a loss of catalyst CO/NOx conversion efficiency resulting from the catalyst operating at high temperatures.

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

FCA will repair your vehicle <sup>[2]</sup> free of charge (parts and labor). To do this, your dealer will reprogram the Powertrain Control Module (PCM) and Transmission Control Module (TCM) with the latest software. In addition, your dealer will install a new catalyst. The estimated repair time is 2 hours. 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 serviced as soon as possible. Failure to do so could be determined as lack of proper maintenance of your vehicle.

#### 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>[2]</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 satisfaction. 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] 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.