



September 2018

Dealer Service Instructions for:

Safety Recall U88 / NHTSA 18V-556 Rear Axle Fluid Level

Remedy Available

2018-2019 (DS) RAM 1500 Pickup

NOTE: This recall applies only to the above vehicles built from April 23, 2018 through August 08, 2018 (MDH 042318 through 080809).

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. Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

Subject

The rear axle assembly on about 4,100 of the above vehicles may have an inadequate oil level which may cause the axle gears and bearings to generate excessive heat and wear, create a whine or growling noise, and the rear axle may fail prematurely. A rear axle assembly that fails prematurely may result in a loss of motive power, and may cause the rear axle to seize. Operating the truck with an inadequate rear axle oil level will result in rear axle gear noise (whine or growling) as a warning prior to rear axle failure. If this warning is not heeded, vehicle crash can occur.

Repair

Inspect all vehicles affected for rear axle oil level. The rear axle will be replaced on those vehicles found with no, or low, oil.

Alternate Transportation

Dealers should attempt to minimize customer inconvenience by placing the owner in a loaner vehicle if inspection determines that a Rear Axle Assembly is required and the vehicle must be held overnight.

Parts Information

Rear Axle Assembly Replacement Parts:

NOTE: The parts below should be ordered only after the axle fluid level inspection determines that a rear axle replacement is required. *Very few vehicles are expected to require rear axle assembly replacement.*

<u>Part Number</u>	<u>Quantity Required</u>	<u>Description</u>
06502114	4	Gasket, Brake Hose to Caliper
06506497AA	4	Bolt, Propeller Shaft Flange
06509206AA	4	Bolt, Upper and Lower Control Arm
06104720AA	4	Nut, Upper and Lower Control Arm
06104264AA	1	Bolt, Track Bar
06511267AA	1	Nut, Track Bar Flag
06503573	1	Clamp, Axle Vent Hose
04318080AD	1	Fluid, Brake DOT3 (MS-4574)

Service Procedure

A. Inspect Axle Fluid Level

1. Raise and support the vehicle on a hoist (preferred flat drive on hoist) **the axle must remain at normal level for inspection.**
2. Inspect the rear axle fluid level for being within specifications.
3. Clean the area around the fill plug and remove the oil fill plug (Figure 1).
4. Take a piece of wire or (zip tie) and make a 90° bend two inches from the end of the wire. Make a line at 6 mm (.25 in or 1/4 in) from the 90° bend for a lubricant level indicator line.

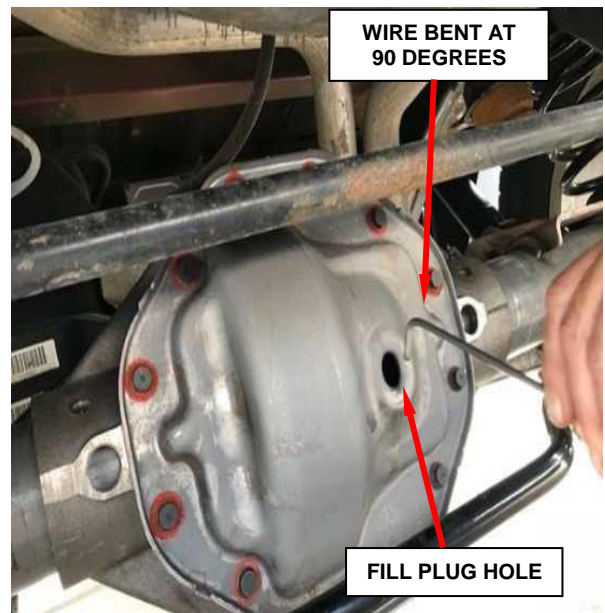


Figure 1 – Fill Plug

5. Insert the wire or (zip tie) perpendicular to the fill plug hole and use it like a dipstick. Measure fill level from the bottom of the fill hole.
6. Remove the wire or (zip tie) and verify the fluid level is within the marked line from the 90° bend to the oil level.
7. Is the rear axle fluid level within specifications?
 - **YES**, no action required. Install the oil fill plug and clean any residual oil from the rear axle cover. Use the inspect LOP to close this recall.
 - **NO, if** equipped with air suspension, proceed to **Section B. Depressurize Air Suspension.**
 - **NO, if not** equipped with air suspension, proceed to **Section C. Replace Rear Axle Assembly.**

Service Procedure (Continued)

B. Depressurize Air Suspension

NOTE: The following procedure is required if the rear axle assembly requires replacement per the inspection in Section “A”. *Very few vehicles are expected to require rear axle assembly replacement.*

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. 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. 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**”, then select “**Finish**” at the bottom of the screen.
6. From the “**Vehicle Selection**” screen, select the appropriate vehicle.
7. From the “**Action Items**” screen, select the “**Topology**” tab.

Service Procedure (Continued)

8. From the “**Topology**” screen, select the “**ASCM**” icon.
9. Select the “**Misc. Functions**” tab.
10. Select “**Disable Level Control**” from the list.
11. Follow the screen prompts.

NOTE: Perform the following steps for the left rear and right rear.

12. Select “**Spring Deflate to Reservoir**” from the list.
13. Follow the screen prompts.
14. Repeat Steps 12 and 13 of this procedure to insure the air suspension is fully deflated.

NOTE: After the rear air springs have the air released, leave the air spring attached to upper spring mount. The air spring does not need to be removed.

15. Continue with **Section C. Replace Rear Axle Assembly.**

Service Procedure (Continued)

C. Replace Rear Axle Assembly

1. Use the following procedure to release the transmission manual park release lever:
 - a. Remove and save the transmission manual park release access cover (Figure 2).
 - b. Using a small screwdriver, slide the release lever lock to the right and hold in that position (Figure 3).
 - c. Pull the orange release lever tether to the right until it locks in place (Figure 3).



Figure 2 - Manual Park Release Access Cover



Figure 3 - Transmission Manual Park Release

Service Procedure (Continued)

REMOVAL

2. Disconnect the negative battery cable.
3. With the vehicle in neutral, position vehicle on hoist.
4. Remove both rear tire and wheel assemblies.
5. Remove and save both mounting bolts from the wheel speed sensor (Figure 4).

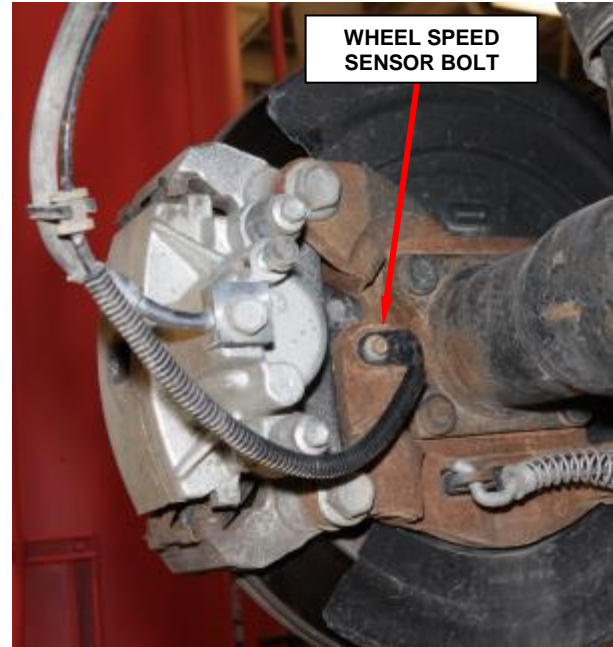


Figure 4 – Wheel Speed Sensor Bolt

6. Remove the wheel speed sensor from the brake caliper adapter (Figure 5).

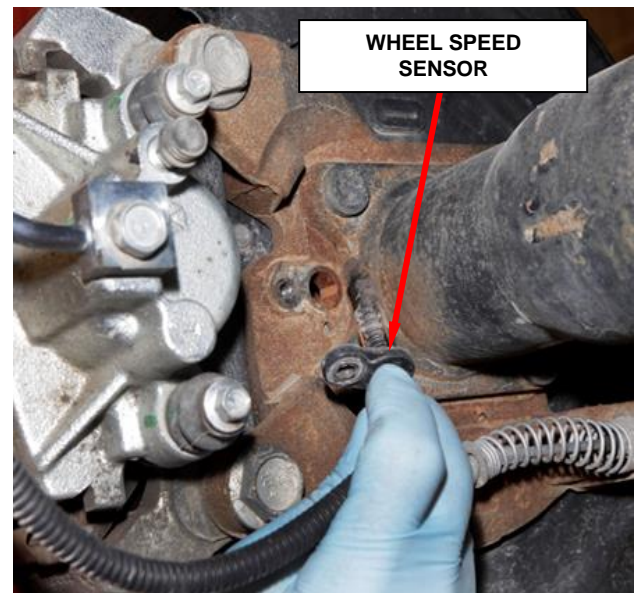


Figure 5 – Wheel Speed Sensor

Service Procedure (Continued)

NOTE: Do not allow brake hose to support caliper assembly.

NOTE: Mechanics wire can be used to support the caliper and adapter plate assemblies.

7. Remove the brake caliper mounting bolts from the right rear and left rear brake calipers (Figure 6).

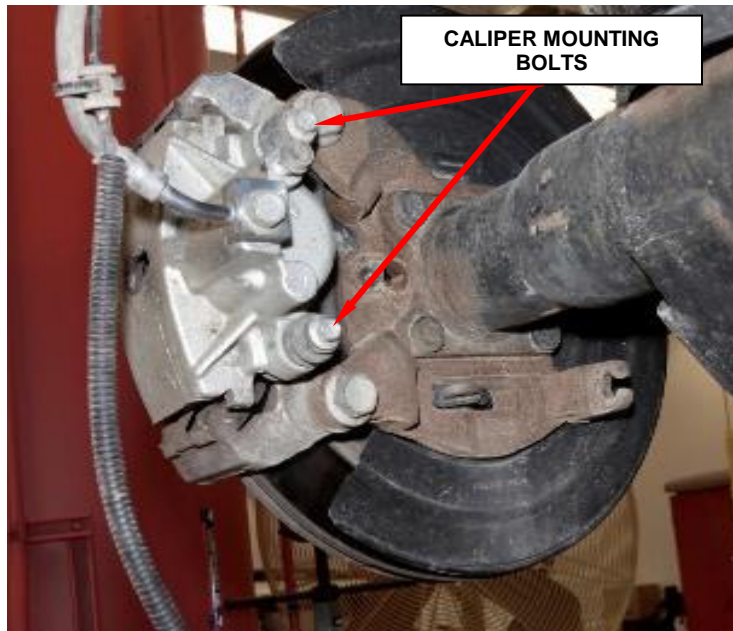


Figure 6 – Brake Caliper Bolts

8. Remove and **DISCARD** the hose clamp and disconnect the axle vent hose from the rear axle (Figure 7).

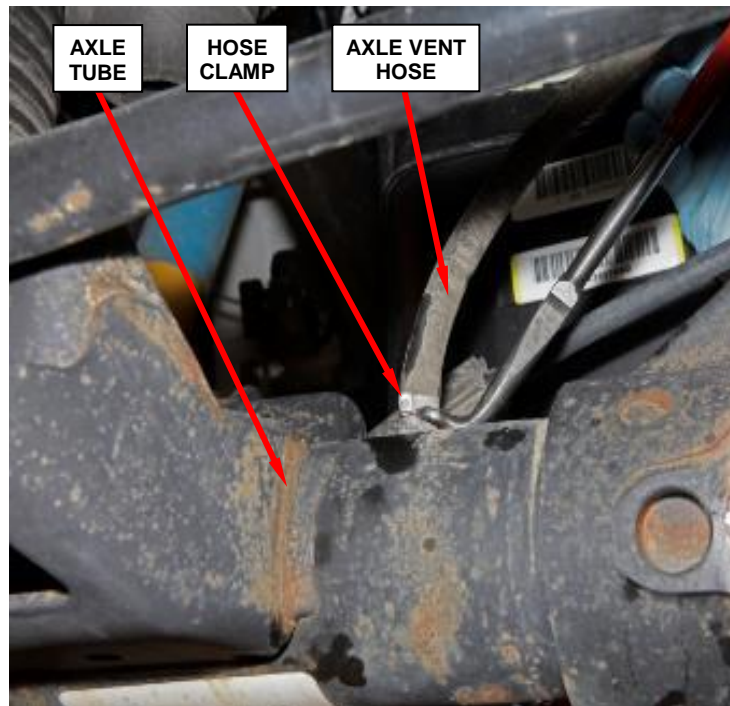


Figure 7 – Axle Vent Hose

Service Procedure (Continued)

9. Remove and **DISCARD** the rear propeller shaft companion flange bolts (Figure 8).

10. Suspend the rear propeller shaft using a bungee cord or equivalent.

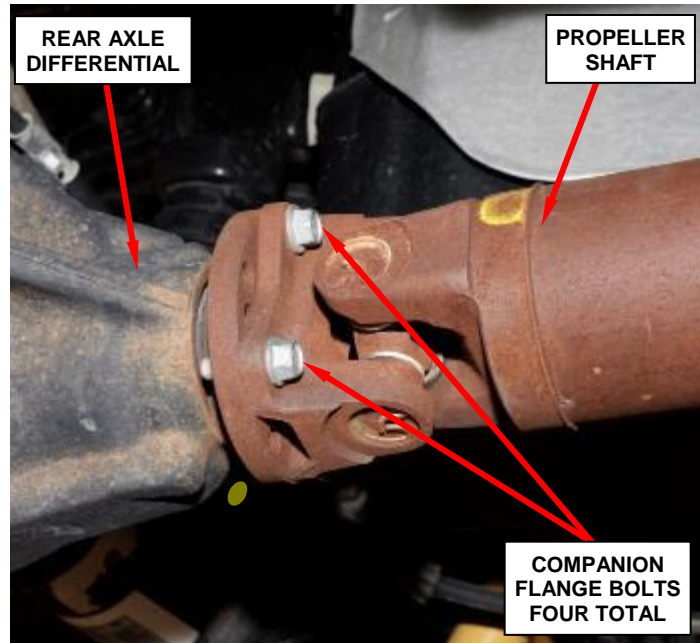


Figure 8 – Propeller Shaft Bolts

11. Disconnect the rear park brake cables from the rear brakes using the following procedure:
 - a. Mark the location of the park brake cable adjuster nut (Figure 9).

 - b. Loosen the park brake cable adjuster nut until the cables are slack (Figure 9).

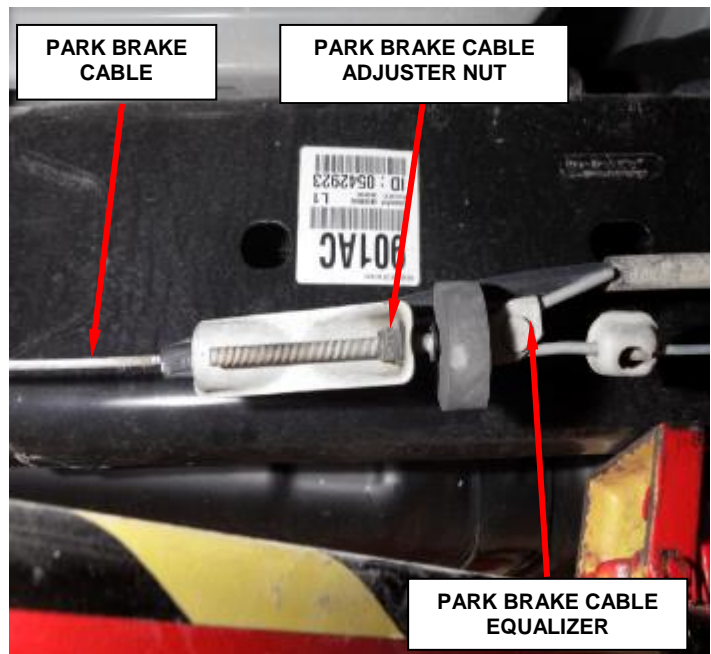


Figure 9 - Park Brake Cable Adjustment

Service Procedure (Continued)

- c. Pull the park brake cable spring back (Figure 10).
- d. Compress the retaining tabs on each park brake cable ferrule at the brake backing plate using a 13 mm line wrench (Figure 10).

NOTE: A 13mm line wrench can be used to compress the cable ferrule tabs. Insert while spring is pulled back and rotate the wrench to compress the cable ferrule tabs.

- e. Remove the park brake cable from the brake backing plate (Figure 10).
- f. Remove the park brake cable from the park brake actuator lever (Figure 10).
- g. Position the park brake cable away from the rear axle.

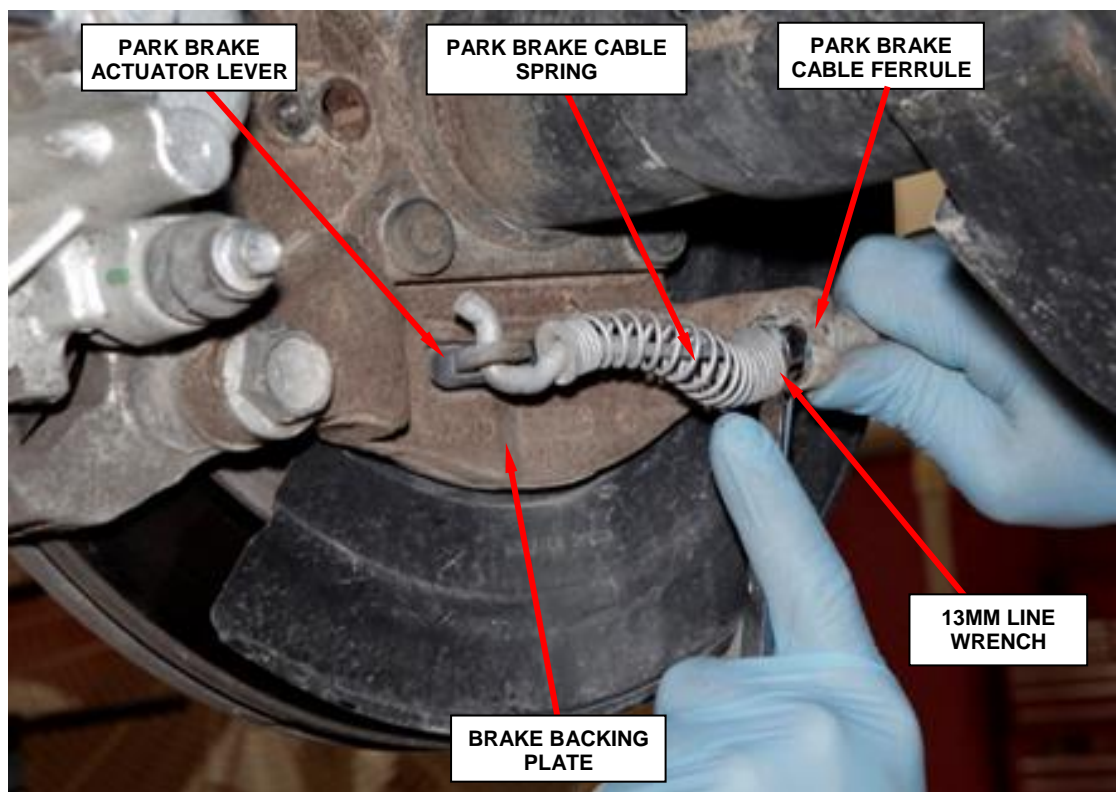


Figure 10 - Park Brake Cable

Service Procedure (Continued)

12. Remove and save the upper park brake cable bolt from the rear axle (Figure 11).

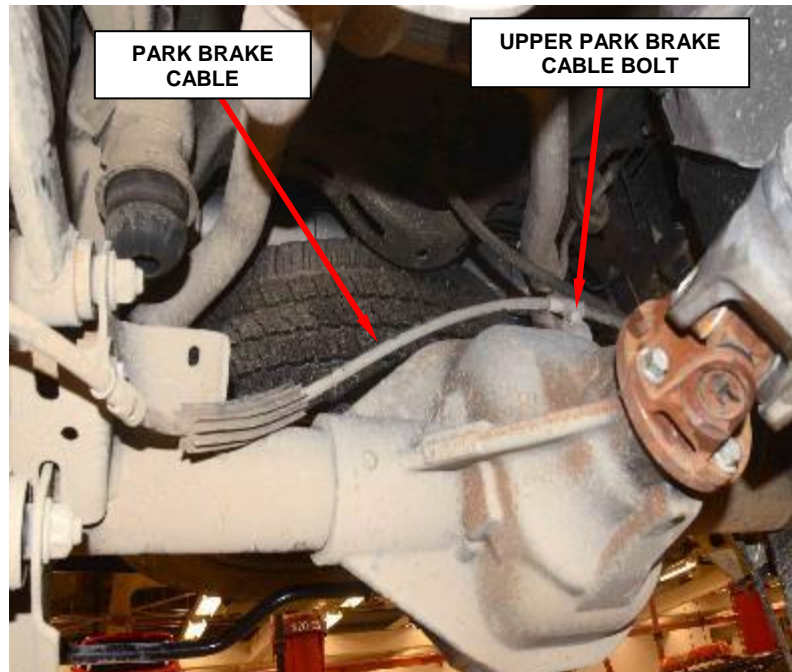


Figure 11 – Park Brake Cable Bolt

13. Remove and save the park brake bolt on the upper control arm bracket (Figure 12).

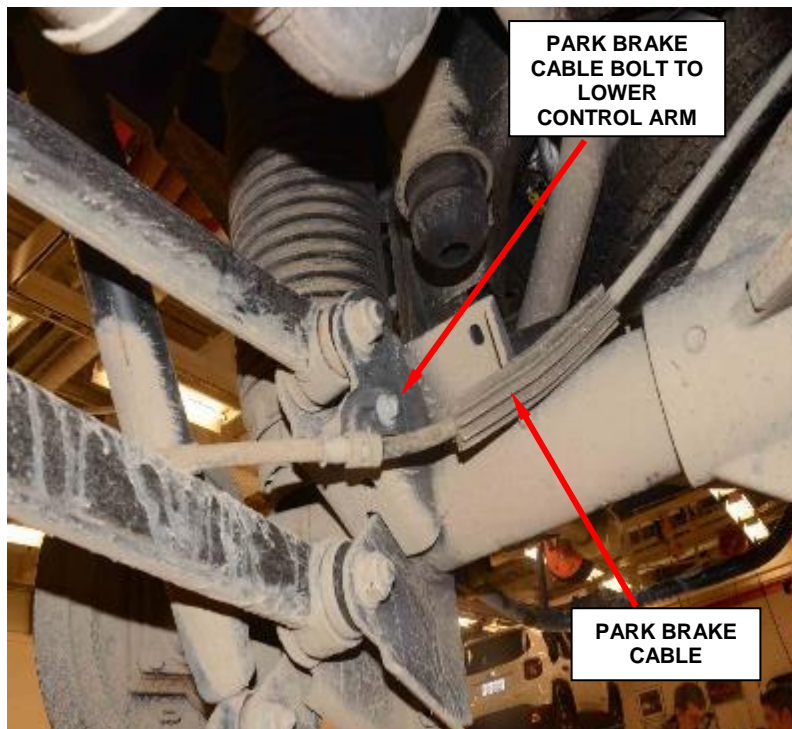


Figure 12 - Park Brake Cable Bolt

14. Position the park brake cable away from the rear axle.

Service Procedure (Continued)

15. Remove and save the stabilizer bar bolts and position the stabilizer bar aside or hang from wire off of the spare tire (Figure 13).

16. Position a lift under the axle and secure the axle to the lift.

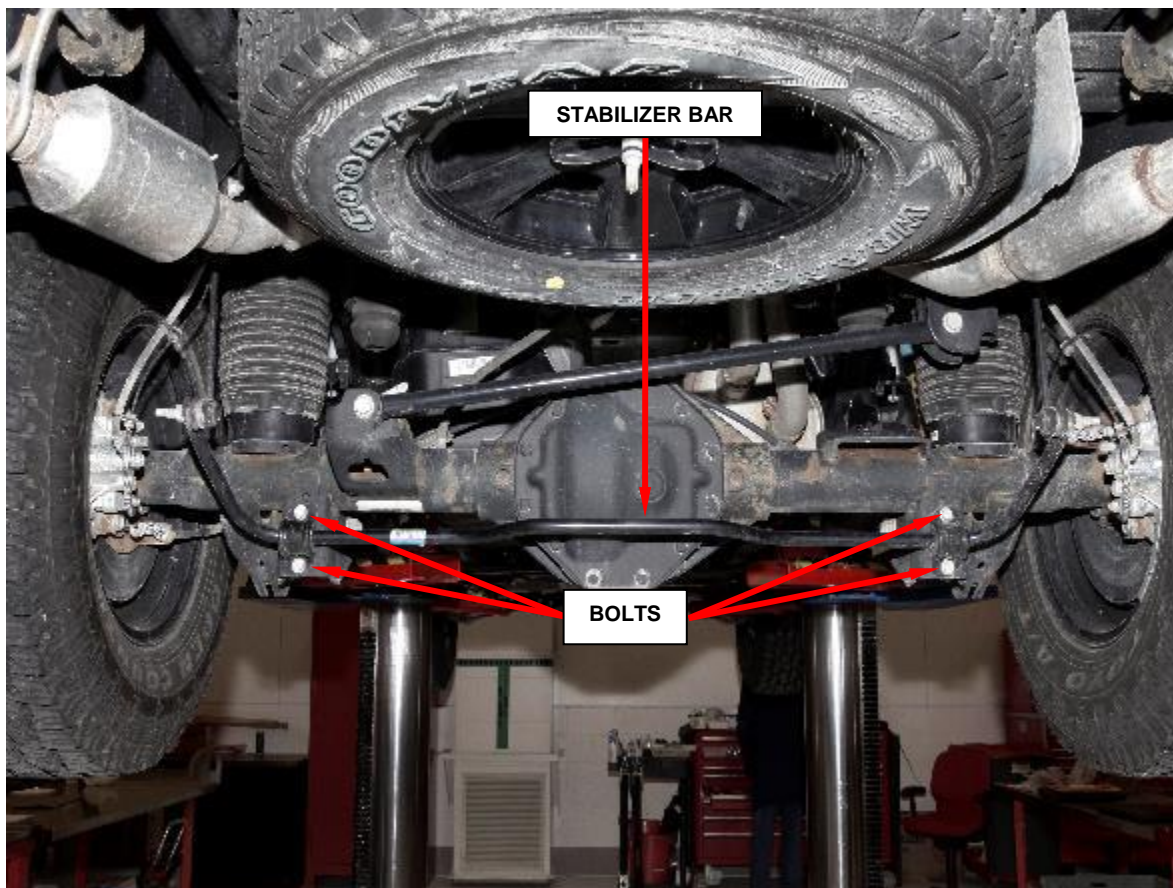


Figure 13 – Stabilizer Bar Bolts

Service Procedure (Continued)

17. Remove and save both lower shock absorber bolts and nuts then position the shock absorbers away from the axle (Figure 14).

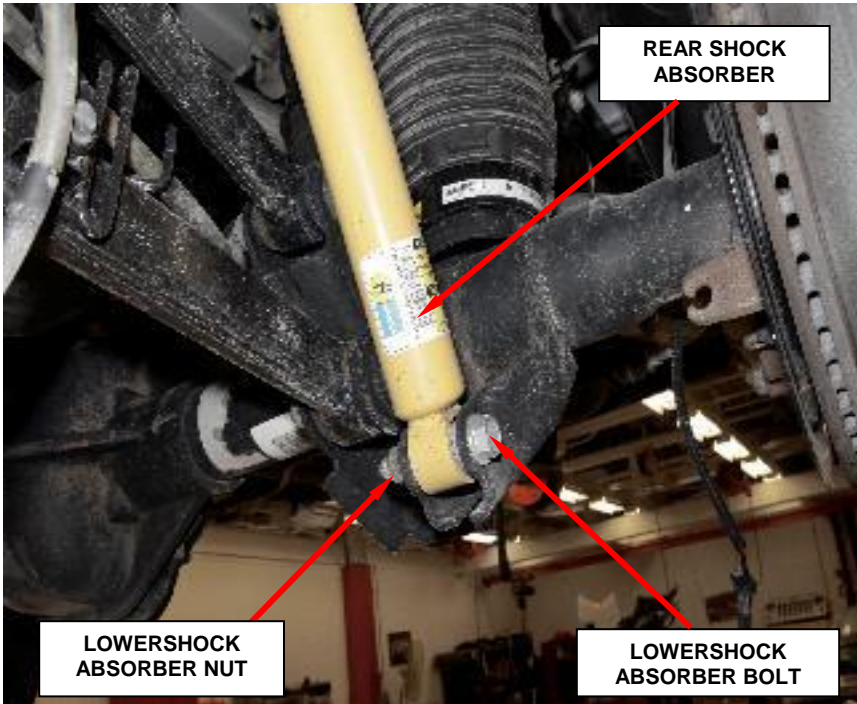


Figure 14 – Shock Absorber Bolts

18. Remove and **DISCARD** the track bar bolt and position the track bar away from the rear axle (Figure 15).

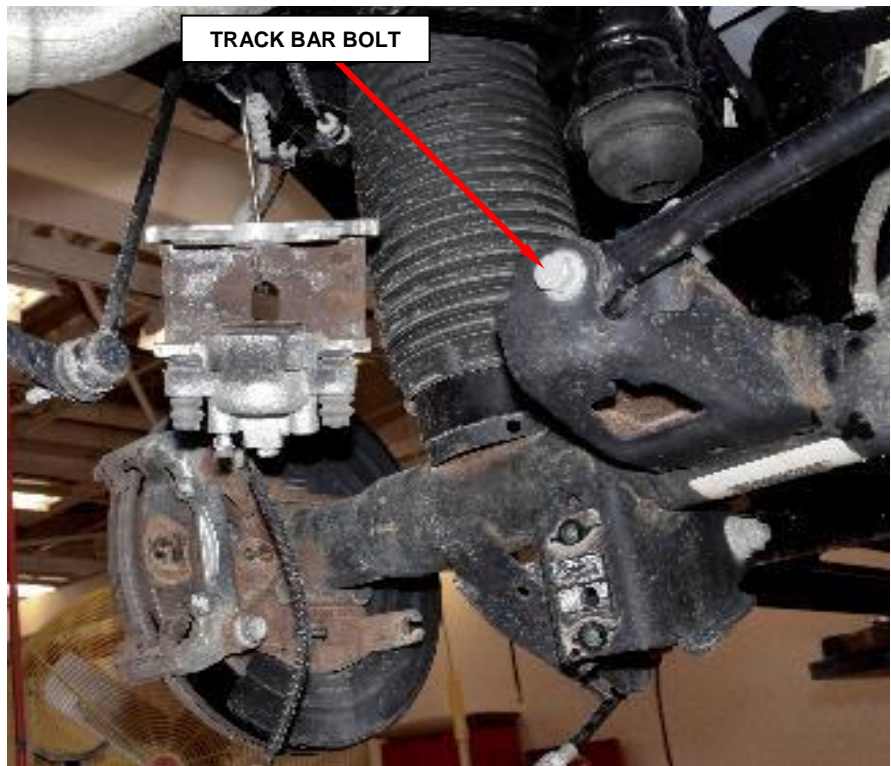
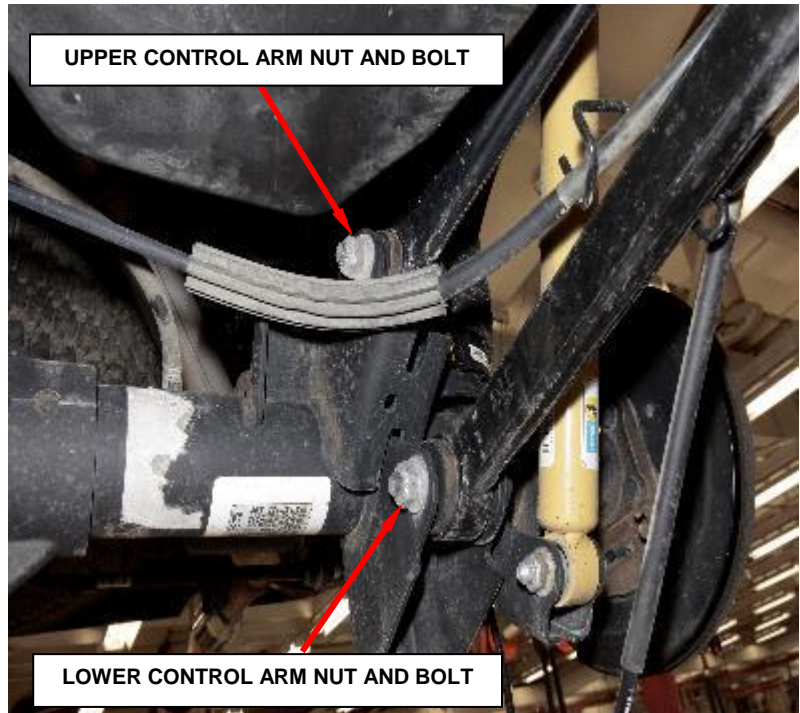


Figure 15 – Track Bar Bolt

Service Procedure (Continued)

19. Remove both the upper control arm to rear axle bolts, **DISCARD** nut and bolt, and position the upper control arms away from the axle (Figure 16).
20. Remove both the lower control arm to rear axle bolts, **DISCARD** nut and bolt, and position the lower control arms away from the axle (Figure 16).
21. If equipped with conventional coil springs, slightly lower the rear axle assembly and remove the rear springs.

**Figure 16 – Control Arm Bolts**

22. Remove the rear axle from the vehicle.

INSTALLATION

NOTE: All suspension torques should be made with the full vehicle weight on the ground being supported by the tires.

1. Position the spring and isolator on the axle and align into the spring upper pocket.
2. Carefully raise the rear axle into place.
3. Position both the lower control arms into the rear axle brackets and loosely install the **NEW** bolts with **NEW** nuts.
4. Position both the upper control arms into the rear axle brackets and loosely install the **NEW** bolts with **NEW** nuts.

Service Procedure (Continued)

5. Position the rear track bar to the rear axle bracket and loosely install the **NEW** bolt.
6. Position both the rear shock absorbers to the axle brackets and loosely install the rear shock absorber bolts.
7. If equipped, carefully snap the lower end of the left and right height sensor level arms to the ball stud of the lower control arms.
8. Remove the axle lift.

NOTE: The stabilizer bar must be centered with equal spacing on both sides.

9. Position the stabilizer bar to the rear axle and install and tighten the bolts to 50 N·m (37 ft. lbs.).
10. Position the park brake cable back to the rear axle.
11. Install the park brake cable bolt on the upper control arm bracket and tighten to 20 N·m (15 ft. lbs.).
12. Install the upper park brake cable bolt to the rear axle and tighten to 20 N·m (15 ft. lbs.).
13. Install the park brake cable to the park brake actuator lever.
14. Pull the park brake cable spring back and install the park brake cable ferrule to the brake backing plate. Ensure that the cable ferrule retaining tabs lock into place on the brake backing plate.
15. Tighten the park brake cable adjusting nut until the mark made previously is reached.

CAUTION: Be sure to align the factory alignment paint mark on the propeller shaft as closely to the factory alignment paint mark on the **NEW axle companion flange.**

16. Install the rear propeller shaft. Install **NEW** companion flange bolts and tighten to 115 N·m (85 ft. lbs.).

Service Procedure (Continued)

17. Connect the axle vent hose using a **NEW** clamp to the axle.
NOTE: The rear axle comes prefilled with gear lubricant. Check that the gear lubricant level is correct and fill if necessary.
18. Position the rear wheel speed sensors to the brake caliper adapters.
19. Install the mounting bolts to the wheel speed sensor and tighten to 12 N·m (9 ft. lbs.).
20. Connect the rear wheel speed sensor electrical connectors.
21. Partially lower the vehicle from the hoist.
22. Using **NEW** brake hose-to-caliper gaskets, transfer the right rear and left rear brake caliper hoses from the old brake calipers to the **NEW** brake calipers supplied on the **NEW** rear axle assembly. Tighten the brake caliper hose banjo bolts to 20 ft. lbs. (28 N·m). **Discard** the old brake calipers.
23. Use the following procedure to bleed the rear brake calipers:
 - a. Attach a clear plastic hose to the rear brake caliper bleeder screw and feed the hose into a clear jar containing enough fresh brake fluid to submerge the end of the hose.
 - b. Have a helper pump the brake pedal three or four times and hold it in the down position.
 - c. With the pedal in the down position, open the bleeder screw on the rear brake caliper at least one full turn.
 - d. Once the brake pedal has dropped, close the bleeder screw. After the bleeder screw is closed, release the brake pedal.
 - e. Repeat the above steps until all trapped air is removed from the rear brake calipers (usually four or five times for each caliper).

Service Procedure (Continued)

- f. Monitor the fluid level in the master cylinder reservoir to make sure it does not run out of brake fluid.

CAUTION: Use only DOT3 brake fluid in the hydraulic brake system.

- g. Check and adjust brake fluid level to the “FULL” mark on the reservoir.
 - h. Check the brake pedal travel. If pedal travel is excessive or has not been improved, some air may still be trapped in the brake hydraulic system. Bleed the rear brakes again as necessary.
24. Install the rear wheels and tighten cone style to 176 N·m (130 ft. lbs.) or tighten flanged style to 190 N·m (140 ft. lbs.).
 25. Lower the vehicle from the hoist.
 26. **For vehicles equipped with air suspension**, use the following procedure to pressurize the air suspension:
 - a. 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. 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. 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.

- b. Connect the wiTECH micro pod II to the vehicle data link connector.
- c. Place the ignition in the “**RUN**” position.

NOTE: The following procedure steps are based on using the wiTECH 2.0 scan tool. If an earlier version of the wiTECH scan tool is used, procedure steps may be different.

Service Procedure (Continued)

- d. Open the wiTECH 2.0 website.
- e. Enter your “**User id**” and “**Password**”, then select “**Finish**” at the bottom of the screen.
- f. From the “**Vehicle Selection**” screen, select the appropriate vehicle.
- g. From the “**Action Items**” screen, select the “**Topology**” tab.
- h. From the “**Topology**” screen, select the “**ASCM**” icon.
- i. Select the “**Misc. Functions**” tab.
- j. Select “**Disable Level Control**” from the list.
- k. Follow the screen prompts.
- l. Select “**Fill Spring from Reservoir**” from the list.
- m. Follow the screen prompts.
- n. Select “**Short Fill**” from the list.
- o. Follow the screen prompts.
- p. Inspect air spring for proper installation.
- q. Select “**Complete Fill**” from the list.
- r. Follow the screen prompts.
- s. Clear all Diagnostic Trouble Codes (DTCs).
- t. Turn the ignition to the “**OFF**” position and then remove the wiTECH micro pod II device from the vehicle.
- u. Remove the battery charger from the vehicle and then close the hood.

Service Procedure (Continued)

NOTE: All suspension torques should be made with the full vehicle weight on the ground being supported by the tires.

27. Tighten the **NEW** upper control arm to axle bolts/nuts to 305 N·m (148 ft. lbs.) plus 90 degrees.
28. Tighten the **NEW** lower control arm to axle bolts/nuts to 305 N·m (205 ft. lbs.).
29. Tighten the **NEW** track bar to axle mounting bolt to 155 N·m (114 ft. lbs.).
30. Tighten shock bolts/nuts to 135 N·m (100 ft. lbs.).
31. Use the following procedure to engage the transmission manual park release lever:
 - a. Pull on the orange tether and hold.
 - b. Using a small screwdriver, slide the release lever lock to the right and then slowly release the orange tether.
 - c. Release the lever lock.
 - d. Tuck the orange tether into the instrument panel.
 - e. Install the transmission manual park release access cover.
32. Test the park brake function. Adjust as necessary.
33. Road test the vehicle to ensure that the rear axle functions properly and that no warning lights are present in the instrument cluster.
34. Return the vehicle to the customer.

NOTE: Advise the customer that with the NEW rear axle to not tow anything with the vehicle for the first 500 miles.

Completion Reporting and 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 one of the following labor operation numbers and time allowances:

	Labor Operation Number	Time Allowance
Inspect Axle Fluid Level	03-U8-81-81	0.2 hours
Inspect Axle Fluid Level and Replace Rear Axle Assembly	03-U8-81-82	2.0 hours
<u>Optional Equipment</u>		
Air Suspension Equipped (only used with 03-U8-81-82)	03-U8-81-60	0.4 hours
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 **08/30/2018** and the remedy was made available on 09/05/2018, therefore, the number of days cannot exceed 6 days.

Vehicle	Average Daily Allowance
2018 (DS) RAM 1500 Pickup	\$5.70
2019 (DS) RAM 1500 Pickup	\$5.70

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

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 and 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

This notice applies to your vehicle,

[Model Year and Model]

VIN XXXXXXXXXXXXXXXXXXXX

U88/NHTSA 18V-556

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 U88.

IMPORTANT SAFETY RECALL

Rear Axle Fluid Level

Dear [Name],

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

FCA has decided that a defect, which relates to motor vehicle safety, exists in certain [2018-2019 MY (DS) RAM 1500 Pickup] 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 rear axle assembly on your truck ^[1] may have an inadequate oil level which may cause the axle gears and bearings to generate excessive heat and wear, create a whine or growling noise, and the rear axle may fail prematurely. A rear axle assembly that fails prematurely may result in a loss of motive power, and may cause the rear axle to seize. **Operating the truck with an inadequate rear axle oil level will result in rear axle gear noise (whine or growling) as a warning prior to rear axle failure. If this warning is not heeded, vehicle crash can occur.**

HOW DO I RESOLVE THIS IMPORTANT SAFETY ISSUE?

FCA will repair your vehicle ^[2] free of charge (parts and labor). To do this, your dealer will inspect all vehicles affected for rear axle oil level. The rear axle will be replaced on those vehicles found with no, or low, oil. In addition, your dealer will require your vehicle for proper check-in, preparation, and check-out during your visit. Your time is important to us; please be aware that these steps may require more time. The estimated repair time is four hours. 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**

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



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.

[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.