



Revision (6) September 2022

Dealer Service Instructions for:

# Safety Recall V06 / NHTSA 19V-021 Drag Link

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**NOTE: Parts Information section revised.**

## Remedy Available

2014-2018	(DJ) RAM 2500 Pickup
2013-2018	(D2) RAM 3500 Pickup
2014-2018	(DD) RAM 3500 Cab Chassis
2016-2018	(DF) RAM 3500 10K LB. Cab Chassis

*NOTE: Some VINs in 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. 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 drag link on about 795,000 of the above vehicles may have been built with an outboard steering linkage jam nut that could loosen allowing one end of the drag link to separate from the adjuster sleeve. A drag link separation can result in a loss of directional steering control, which can cause a vehicle crash without prior warning.

## **Repair**

Inspect the torque values. If the torque values meet requirement, the nuts will be welded to the adjuster sleeve. If the torque values do not meet requirement, the threads will be measured. If thread engagement is acceptable, the link will be re-assembled, the vehicle will be aligned, and the nuts will be welded to the adjuster sleeve. If the thread engagement is not adequate, the drag link assembly will be replaced.

## **Alternate Transportation**

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

**Parts Information**

No parts will be distributed initially.

**NOTE: Perform Sections A and B before ordering any of the part numbers listed below.**

*Very few vehicles are expected to require drag link replacement.*

<u>Part Number</u>	<u>Description</u>
CSZHV061AA	Assembly, Drag Link
06505623AA	Hex Lock Nut, Tie Rod (2 required)
68317791AA	Paint, Black (MS-PF-1-25) (Each container of paint will repair approximately 25 vehicles)

**Dealers must place order for the Hex Lock Nut and black paint, as necessary. Hex Lock Nut will be shipped from your parts distribution center and the black paint will be shipped SSD.**

## **Parts Return**

No parts return required for this campaign.

## **Special Tools**

**The following special tools are required to perform this repair:**

- NPN Flux Cored Arc Weld (MIG) or equivalent  
GMAW (MIG) welding machine (140-150 amps)
- C-3894-A Puller, Tie Rod
- 2069400190 Crowsfoot Wrench, 41mm (SCOM41)

## Service Procedure

### A. Inspect Drag Link Assembly

1. Inspect the drag link assembly for drag link to turnbuckle separation.
  - If no separation is observed, continue to Step 2.
  - If the vehicle was towed in and separation has occurred, continue to section **D. Replace Drag Link Assembly.**
2. Using a .020” feeler gauge, confirm jam nut contact to drag link turnbuckle. If no contact is noted, proceed to section **B. Measure Drag Link Assembly Threads** (Figure 1). **Jam nut to turnbuckle gap is not considered separation.**
3. Using a paint pen or equivalent, mark both jam nuts and turnbuckle with lines (Figure 1).
4. Hold the drag link turnbuckle with back-up wrench (Figure 2).
5. Using a 41 mm crow'sfoot, such as Special Tool 2069400190 (Snap-on SCOM41) or equivalent, set a torque wrench to 20 N·m (15 ft. lbs.) (Figure 2).

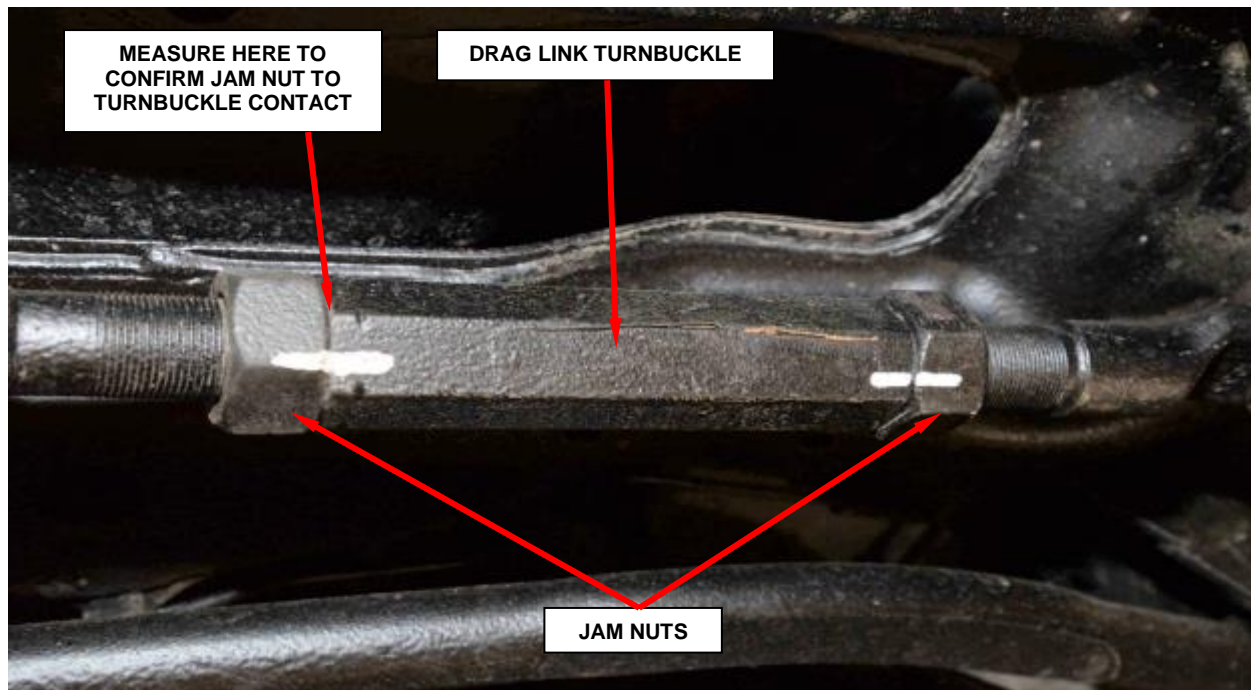


Figure 1 – Mark Jam Nuts and Turnbuckle

**Service Procedure**

**NOTE:** If using a digital torque wrench during the inspection, observe the torque wrench digital reading to determine if minimum torque of 20 N·m (15 ft. lbs.) is achieved.

**NOTE:** Some jam nut movement may occur when tightening from 20 N·m (15 ft. lbs.) to 148 N·m (109 ft. lbs.). **DO NOT** replace the drag link if initial 20 N·m (15 ft. lbs.) is achieved.

6. Rotate each jam nut **in direction as shown** (tightening direction) until wrench clicks or 20 N·m (15 ft. lbs.) is achieved (Figure 2).
  - If paint lines **do not** show nut rotation, continue to section **C. Weld Turnbuckle Jam Nuts.**
  - If either paint line **shows** nut rotation, continue to section **B. Measure Drag Link Assembly Threads.**

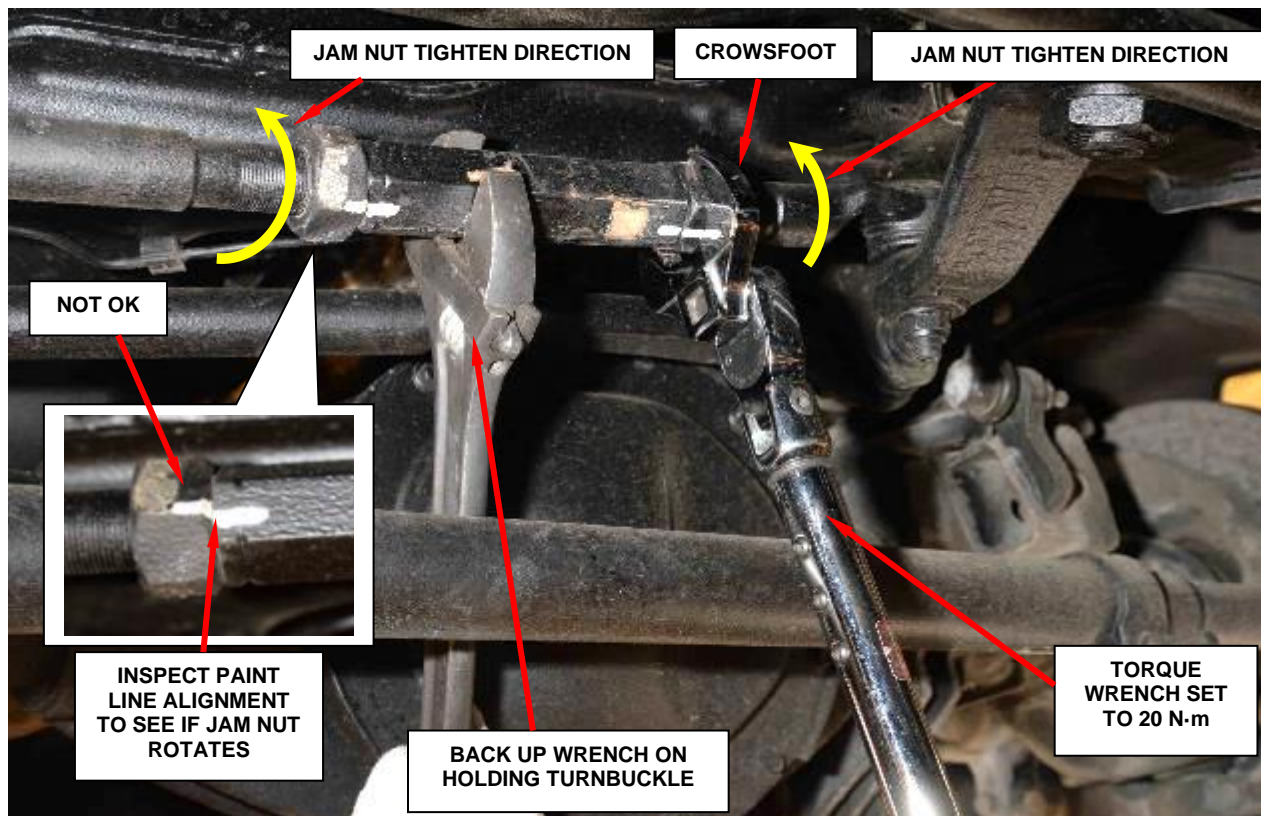


Figure 2 – Inspect for Jam Nut Movement

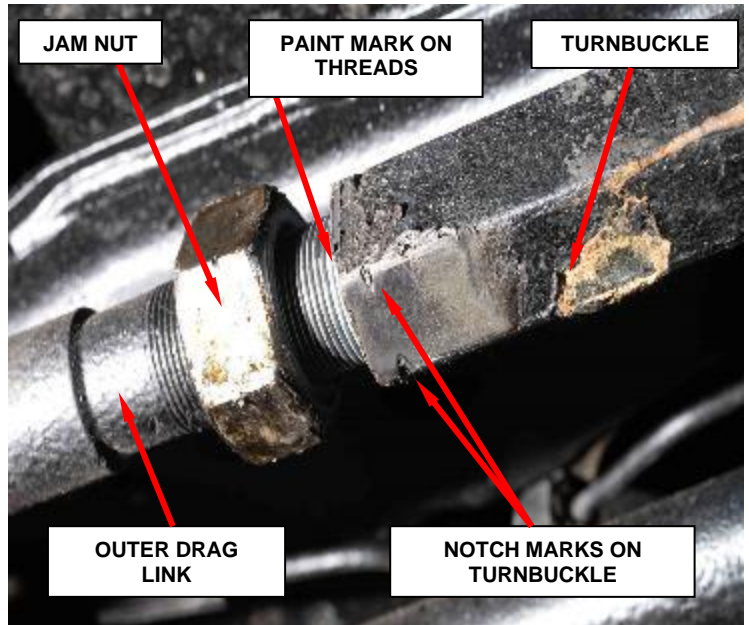
**Service Procedure [Continued]**

**B. Measure Drag Link Assembly Threads**

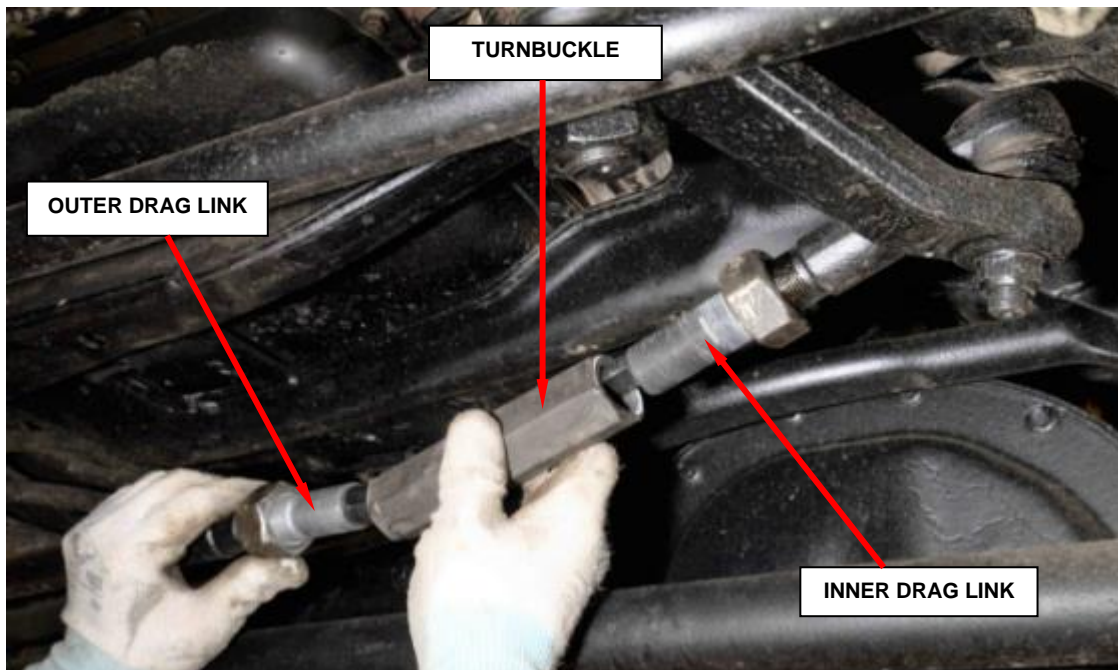
1. Back off both jam nuts enough to paint mark threads.
2. Paint mark threads of outer drag link at turnbuckle (Figure 3).

**NOTE: Turnbuckle end with notch marks on hex goes toward the outer drag link.**

3. Remove the turnbuckle from the inner and outer drag links (Figure 4).



**Figure 3 – Paint Mark on Threads**

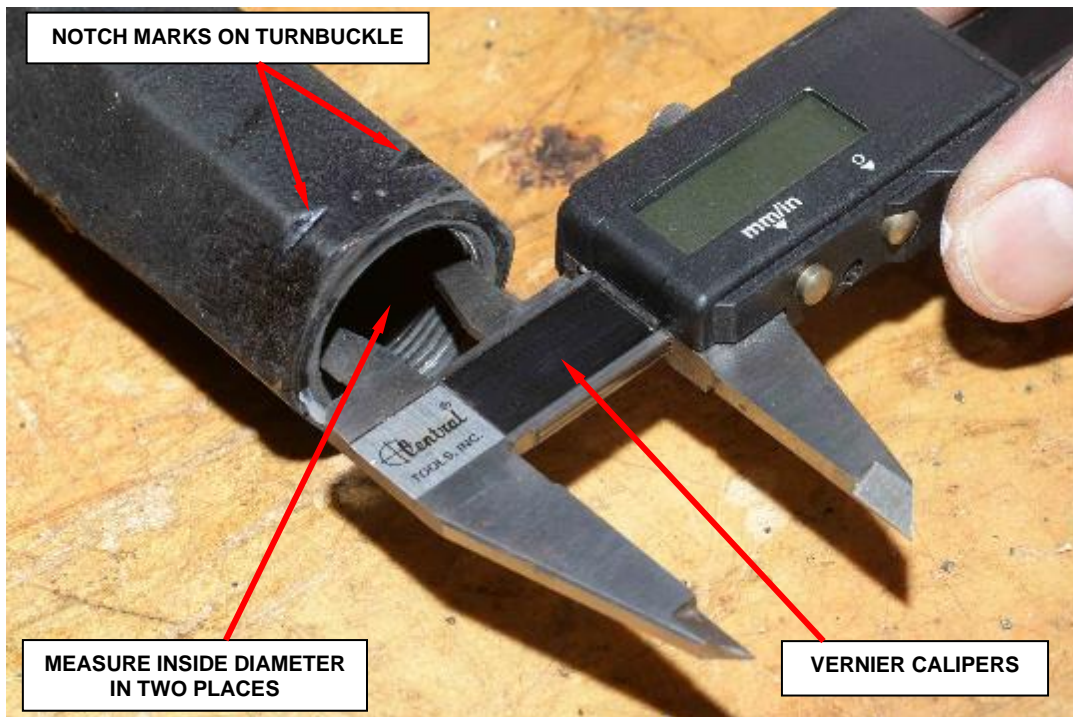


**Figure 4 – Remove Turnbuckle**

**Service Procedure [Continued]**

- Using Vernier Calipers, measure and record the inside diameter of the turnbuckle (end with notch marks on hex) (Figure 5).

**NOTE:** Measure the inside diameter at two different locations (90° from each other). Use the largest measurement.



**Figure 5 – Measure Inside Diameter of Turnbuckle at Notched End**



**Service Procedure [Continued]**

5. Using Vernier Calipers, measure and record the major outside diameter of the outer drag link threads 5mm (0.20 in. - approx 3 threads) from paint mark denoting end of turnbuckle (Figure 6). **Be sure to measure using the flats on the calipers, do not measure inside the thread pitch (Figure 6).**

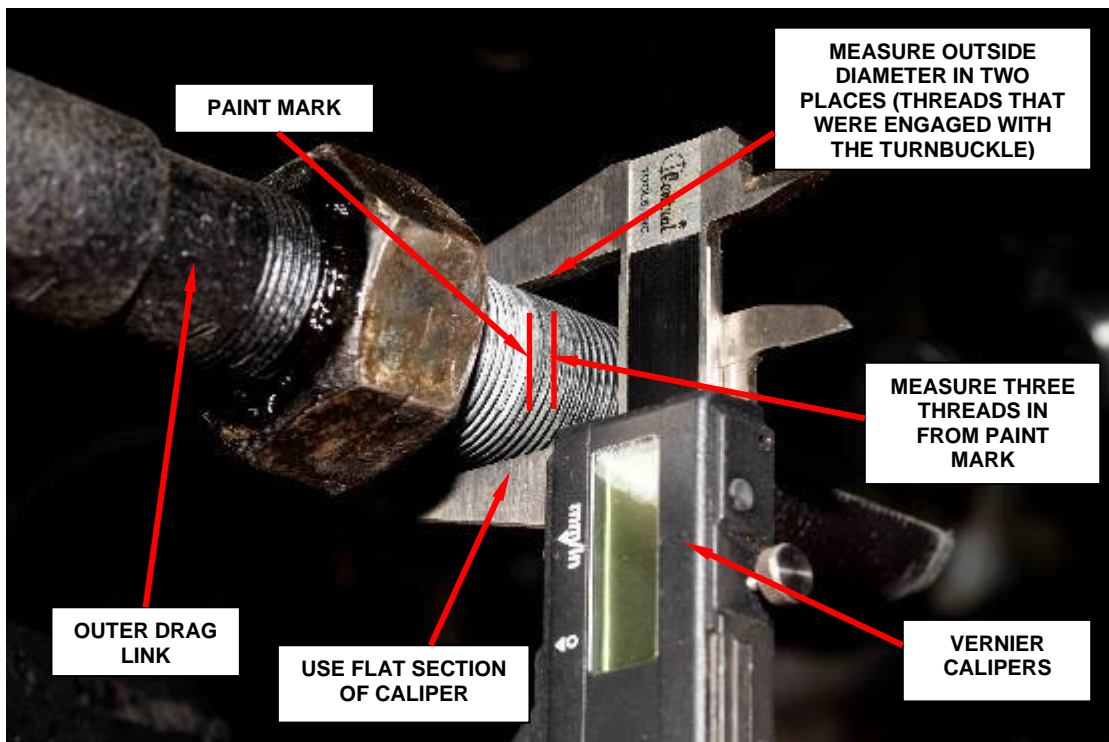
**NOTE: Measure the outside diameter at two different locations (90° from each other). Use the smallest measurement.**

Record smallest outer thread diameter (Step 5): \_\_\_\_\_

Record largest inner thread diameter (Step 4): \_\_\_\_\_

Subtract (smallest outer – largest inner): \_\_\_\_\_

- If the result of the subtraction is 0.6 mm (0.024 in) or less, continue to section **D. Replace Drag Link Assembly.**
- If the result of the subtraction is greater than 0.6 mm (0.024 in), assemble the turnbuckle and continue to section **C. Weld Turnbuckle Jam Nuts.**



**Figure 6 - Measure Outside Diameter of Outer Drag Link**

**Service Procedure [Continued]****C. Weld Turnbuckle Jam Nuts**

**NOTE: DO NOT WELD COLD, allow the parts to warm to room temperature, above 65° F (18° C).**

**NOTE: DO NOT LOOSEN JAM NUTS if steering wheel is centered and toe adjustment is not required.**

1. Adjust the toe **if required** and center the steering wheel.
  - If coming from Section A, the jam nut gap is OK and minimum torque of 20 N·m (15 ft. lbs.) is achieved, then continue to Step 4. **Toe adjustment is not required.**
  - If coming from Section B and the result of the subtraction is greater than 0.6 mm (0.024 in), adjust the toe **if required** and center the steering wheel, then continue to Step 2.
2. After adjustment, using a backer wrench and a 41 mm crow'sfoot, such as Special Tool 2069400190 (Snap-on SCOM41) or equivalent, tighten the drag link turnbuckle jam nuts to 148 N·m (109 ft. lbs.). **Make sure the toe setting does not change during tightening (Figure 2).**
3. Road test to verify the steering wheel is straight prior to welding.
4. Disconnect the battery negative cable(s).

**WARNING:**

- **When Welding or working with Adhesives always wear safety goggles and gloves to prevent contact with chemicals and to prevent weld spatter, sparks, and sharp metal from causing bodily injury.**
- **Wear an approved respirator while welding and during the application of adhesives to prevent inhalation of harmful vapors.**
- **Always remove NVH (Noise Vibration and Harshness) foam from welding repair area, as material is flammable.**

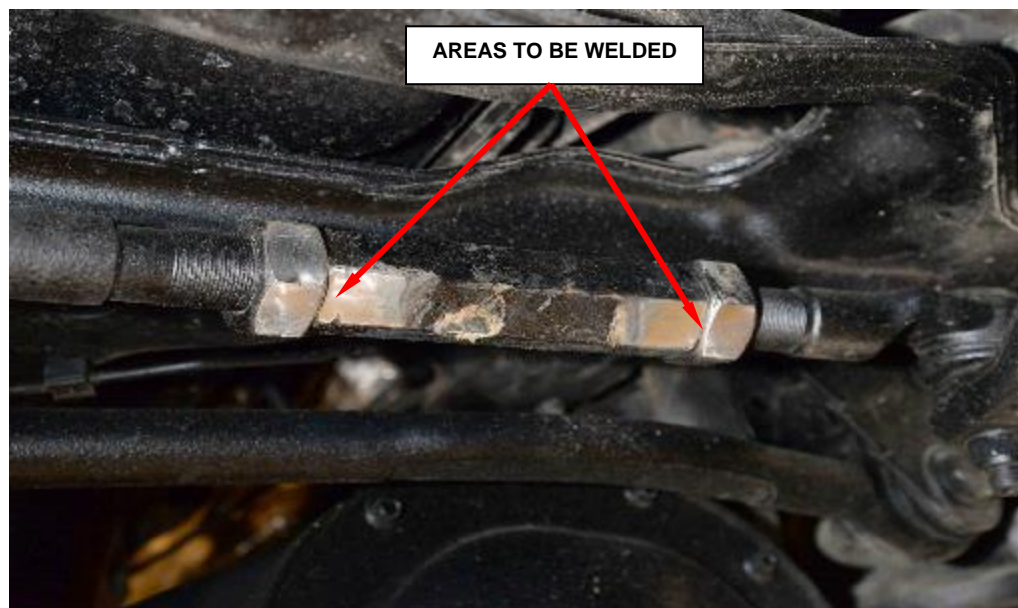
**Service Procedure [Continued]**

**WARNING:** Failure to follow these instructions may result in possible serious or fatal injury.

**Welding**

- Comply with all federal, state and local regulations to avoid any injuries due to shock, fires, fumes, sparks and liquids.
- All flammable materials or liquid should be stored in tightly sealed and labeled containers, and used only in well ventilated areas.
- No spark producing equipment should be permitted in any area where flammable materials are being handled or stored.

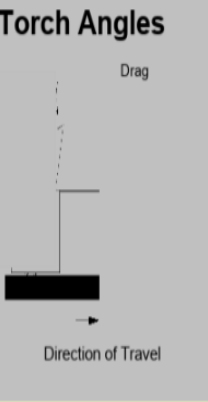
5. Clean the areas to be welded. Areas must be free of dirt, oil, water, salt, undercoating, moisture or any other contaminant that would affect the weld, then wire brush the area (Figure 7).



**Figure 7 – Clean the Areas to be Welded**

**Service Procedure [Continued]**

6. Following the weld procedure values in chart below (Figure 8).

Welding Power Supply:	Lincoln Powerwave 350	Electrode Manufacturer:	Lincoln Electric	<p><b>Torch Angles</b></p>  <p>Drag</p> <p>Direction of Travel</p> <p><b>Travel Angle</b> 5 Degree Drag (+ 5 Degrees - 0 Degrees)</p> <p><b>Work Angle</b> 45 Degrees from Turn Buckle</p>
Program:	Mode # 6 FCAW-S (Standard CV)	Electrode Type:	NR-211-MP (AWS E71T-11)	
Robot Description:	N/A	Electrode Diameter:	0.035"	
Electrical Stickout:	10 - 12 mm	Polarity:	DC Electrode Negative Part Positive	
Purge Time:	N/A	Shielding Gas Mixture:	N/A	
Hot Start:	N/A	Shielding gas flow:	N/A	
Travel Speed:	Manual 8 ipm approx.	Torch Type:	Tregaskies	
Voltage:	19 Volts	Nozzle Dia.:	N/A	
Wirefeed Speed:	200 ipm	Weave Data:	N/A -Stringer Only	
Amperage	140 -150 amps	Joint Design:	2F - 3F	
	N/A	Arc Transfer Type:	Constant Voltage (MIG)	
	N/A	Leg 1 Material Thickness:	N/A	
	N/A	Leg 2 Material Thickness:	N/A	

**Figure 8 – Weld Procedure Values**

7. Using a Lincoln Powerwave 350 Flux Cored Arc Weld (MIG) or equivalent GMAW (MIG) welding machine (140-150 amps), apply a **17mm long weld the length of one turnbuckle flat on each jam nut** (Figure 9).



**Figure 9 – Weld Both Jam Nuts to the Turnbuckle**

**Service Procedure [Continued]**

8. Wire brush the slag from the surface of the welds (Figure 10).
9. Allow to cool to room temperature.



Figure 10 – Prepare areas for Paint

**NOTE: Each jam nut must hold a breakaway torque of 105 N·m (77 ft. lbs.).**

10. Using a backer wrench and a 41 mm crowsfoot, such as Special Tool 2069400190 (Snap-on SCOM41) or equivalent, set a torque wrench to 105 N·m (77 ft. lbs.) and attempt to loosen each jam nut (ref: Figure 2 for set-up).
  - If both jam nuts **do not** rotate (breakaway), continue to step 11.
  - If **either jam nut rotates** (breakaway), **repeat Steps 5 through 10 on a different turnbuckle flat.**
11. Paint the area to prevent rust using MS-PF-1-25 black paint or equivalent.
12. Remove the supports and lower the vehicle.
13. Connect the negative battery cable and return the vehicle to the customer.

**Service Procedure [Continued]****D. Replace Drag Link Assembly**

1. Raise and support the vehicle.
2. Remove the right front tire and wheel assembly.
3. Remove and **DISCARD** the outer drag link to tie rod nut (Figure 11).
4. Remove the outer drag link tie rod from the knuckle using C-3894-A (puller shown in Figure 12).



Figure 11 – Outer Tie Rod

5. Remove and **DISCARD** the inner drag link to pitman arm nut (Figure 12).
6. Remove the inner tie rod end from the pitman arm using special tool C-3894-A (Figure 12).
7. Remove and **DISCARD** the drag link assembly.

**NOTE:** Prior to installing tapered end suspension components, clean male and female surfaces with brake clean.

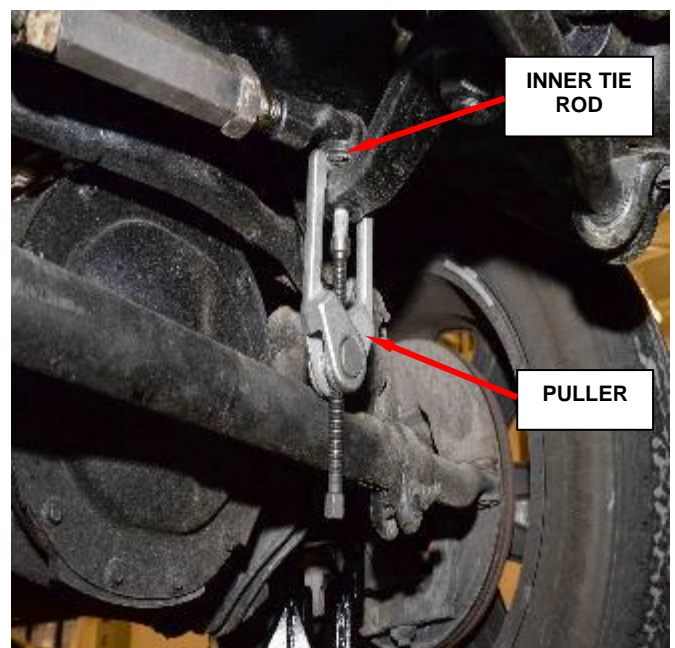


Figure 12 – Inner Tie Rod

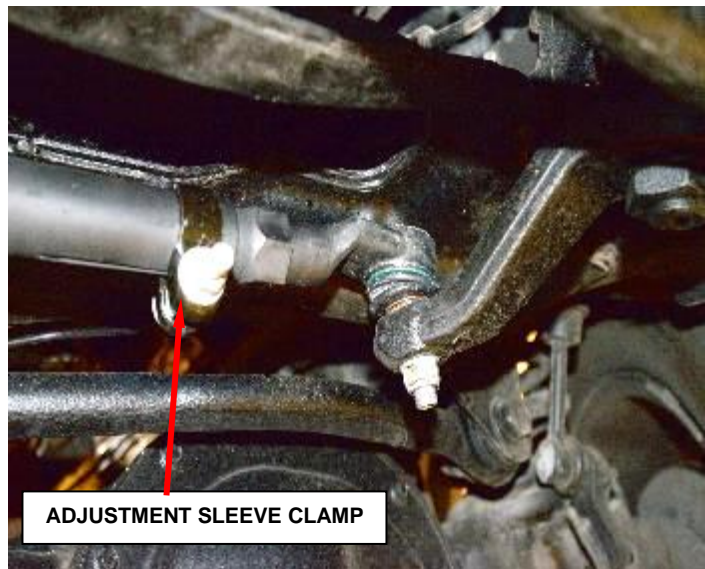
**Service Procedure [Continued]**

8. Position the **NEW** drag link assembly to the vehicle.
9. Install the inner drag link tie rod end to pitman arm using a **NEW** nut and tighten to 37 N·m Plus 180° (27 ft. lbs. Plus 180°).
10. Install outer drag link tie rod end to the knuckle and tighten the **NEW** nut to 60 N·m Plus 105° (44 ft. lbs. Plus 105°).
11. Install the right front tire and wheel assembly and tighten to proper torque specification (Figure 13).

Description	N·m	Ft. Lbs
Flanged Lug Nut (1500, 2500, 3500 – SRW)	175	129
Cone Lug Nut (1500, 2500, 3500 – SRW)	176	130
Flanged Lug Nut (3500, 4500, 5500 – DRW)	175	129
Cone Lug Nut (3500, 4500, 5500 – DRW)	160-200	120-150

**Figure 13 – Wheel Assembly Torque Specifications**

12. Remove the supports and lower the vehicle.
13. Adjust the toe and center the steering wheel.
14. After adjustment tighten tie rod adjustment sleeve clamp bolt to the 75 N·m (55 ft. lbs.) (Figure 14).
15. Return the vehicle to the customer.



**Figure 14 - Adjustment Sleeve Clamp**

<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 one of the following labor operation numbers and time allowances:

	<b>Labor Operation Number</b>	<b>Time Allowance</b>
Inspect Drag Link for Separation, Replace Drag Link and Set Toe	19-V0-61-82	1.1 hours
Inspect Drag Link and Jam Nut Gap ( <b>Not OK</b> ), Measure Drag Link Assembly ( <b>Not OK</b> ), Replace Drag Link and Set Toe	19-V0-61-83	1.5 hours
Inspect Drag Link and Jam Nut Gap ( <b>Not OK</b> ), Measure Drag Link Assembly ( <b>OK</b> ), Set Toe and Weld Jam Nuts (weld time not included, see related LOP)	19-V0-61-84	1.1 hours
Inspect Drag Link and Jam Nut Gap ( <b>OK</b> ), Jam Nut Torque ( <b><u>Achieved 20 N·m (15 ft./lbs.)</u></b> ), Weld Jam Nuts (weld time not included, see related LOP)	19-V0-61-85	0.2 hours
Inspect Drag Link, Jam Nut Torque ( <b><u>20 N·m (15 ft./lbs.) Not Achieved</u></b> ), Measure Drag Link Assembly ( <b>OK</b> ), Set Toe and Weld Jam Nuts (weld time not included, see related LOP)	19-V0-61-86	1.2 hours
Inspect Drag Link, Jam Nut Torque ( <b><u>20 N·m (15 ft./lbs.) Not Achieved</u></b> ), Measure Drag Link Assembly ( <b>Not OK</b> ), Replace Drag Link and Set Toe	19-V0-61-87	1.5 hours



**Completion Reporting and Reimbursement (Continued)**

**Related LOP:**

Weld Jam Nuts 19-V0-61-50 0.5 hours

**NOTE: If your dealer is not equipped with the proper welding equipment to complete this recall, please refer to the Warranty Administration Manual (WAM) for standard sublet procedure and sublet LOPs to utilize in addition to the recall specific LOPs listed above.**

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 **02/01/2019** and the remedy was made available on **03/20/2019**, therefore, the number of days cannot exceed **47** days.

Vehicle	Average Daily Allowance
2017 (DJ) RAM 2500 Pickup	██████
2017 (D2) RAM 3500 Pickup	██████
2017 (DD) RAM 3500 Cab Chassis	██████
2017 (DF) RAM 3500 10K LB. Cab Chassis	██████

**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

V06/NHTSA 19V-021

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 1-866-220-6747. 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 V06.

# IMPORTANT SAFETY RECALL

## Drag Link

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 [2014-2018 (DJ) RAM 2500 Pickup, 2013-2018 (D2) RAM 3500 Pickup, 2014-2018 (DD) RAM 3500 Cab Chassis and 2016-2018 (DF) RAM 3500 10K LB. Cab Chassis] trucks.

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 drag link on your truck <sup>[1]</sup> may have been built with an outboard steering linkage jam nut that could loosen allowing one end of the drag link to separate from the adjuster sleeve. **A drag link separation can result in a loss of directional steering control, which can cause a vehicle crash without prior warning.**

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

FCA will repair your vehicle <sup>[2]</sup> free of charge (parts and labor). To do this, your dealer will inspect the torque values. If the torque values meet requirement, the nuts will be welded to the adjuster sleeve. If the torque values do not meet requirement, the drag link assembly will be replaced. 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 two hours. We recommend that you schedule a service appointment to minimize your inconvenience. Please bring this letter with you to your dealership.

#### VISIT RECALLS.MOPAR.COM/HELP FOR MORE INFORMATION AND ANSWERS TO FREQUENTLY ASKED QUESTIONS

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

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

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

Customer Assistance/Field Operations  
FCA US LLC



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

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

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

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

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