

# SAFETY RECALL

NORTH AMERICA

## Steering Knuckle

Reference: 07B / NHTSA 24V-131



FCA US LLC



Remedy available for

2024 (WL) Jeep Grand Cherokee

Template Version 1.0

Revision	Edition	Detail
0	April 2024	Initial Version.

### SYMPTOM DESCRIPTION

About 250 of the above vehicles may have been built with a front right steering knuckle that is improperly machined. A steering knuckle without finished machining can cause a ball joint to not be seated correctly and the ball joint nut to not be fully tightened which can cause ball joint to knuckle separation. A ball joint separating from the knuckle results in the wheel falling outboard, which can cause a vehicle crash without prior warning.

### SCOPE

NOTE: Some vehicles above may have been identified as not involved in this recall and therefore have been excluded from this recall.

#### **IMPORTANT:**

- Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery. Violation of this requirement by a dealer could result in a civil penalty of up to \$27,168 per vehicle.
- Some of the involved vehicles may be in dealer used vehicle inventory. Dealers should complete this recall service on these vehicles before retail delivery.
- Dealers should also perform this recall on vehicles in for service.

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

### REPAIR TO BE PERFORMED

Replace the right front steering knuckle by following the directions outlined in the Service Procedure.

### ALTERNATE TRANSPORTATION

Dealers should attempt to minimize customer inconvenience by placing the owner in a loaner vehicle if the vehicle must be held overnight.

### COMPLETION REPORTING / REIMBURSEMENT

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims paid will be used by FCA to record recall service completions and provide dealer payments.

Use the following labor operation numbers and time allowances:

Labor Description	Number	Hrs
Replace Steering Knuckle Right Front (2WD/4WD)	02-07-B1-82	2.6

Labor Description	Number	Allowance
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 02/29/2024 and the remedy was made available on 04/04/2024, therefore, the number of days cannot exceed 35 days.

Vehicle	Average Daily Allowance
(WL) Jeep Grand Cherokee	██████

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.

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### PARTS INFORMATION

Part No.	Qty.	Part Name
CSAR07B1AA	1	Kit Includes
	1	Steering Knuckle Front Right
	1	Spring Handling Link
	1	Strut Link
	1	Tension Link Nut
	1	Spring Handling Link Nut
	1	Outer Tie Rod to Knuckle Nut
	1	Upper Control Arm to Knuckle bolt
	1	Upper Control Arm to Knuckle Nut
	1	Handling Link to Cradle Bolt
	1	Handling Link to Cradle Nut
	1	Clevis to Handling Link Bolt
	1	Tension Strut to Cradle Bolt
	1	Tension Strut to Cradle Nut
	1	Halfshaft to Hub Nut

### PARTS RETURN

No parts return required for this campaign. Discard the suspect steering knuckle.

### SPECIAL TOOLS

Number	Description
NPN	wiTECH MicroPod II / MDP
NPN	Laptop Computer
NPN	wiTECH Software
9360	Remover, Ball Joint
NPN	C-clamp 8" or greater
NPN	Hook for Suspending Brake Caliper

### DEALER NOTIFICATION

To view this notification on DealerCONNECT, select "Global Recall System" on the Service tab, then click on the description of this notification.

### OWNER NOTIFICATION / SERVICE SCHEDULING

All involved vehicle owners known to FCA are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

### VEHICLE LISTS, GLOBAL RECALL SYSTEM, VIP AND DEALER FOLLOW UP

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the "Service" tab and then click on "Global Recall System." Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

**Dealers must perform this repair on all unsold vehicles before retail delivery.** Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

*Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.*

### ADDITIONAL INFORMATION

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations  
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## SERVICE PROCEDURE

### Removal

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

**NOTE: All the following steps apply to the front right side of the vehicle ONLY.**



**Figure 1 – Tire and Wheel Assembly**

1 - Lug Nuts

2 - Tire and Wheel Assembly

2. Remove the lug nuts (Figure 1).
3. Remove the front tire and wheel assembly (Figure 1).
4. **If equipped**, have a helper apply brake pressure then remove and **DISCARD** the halfshaft hub and bearing nut (Figure 2).



**Figure 2 – Halfshaft Nut**

1 - Halfshaft Hub and Bearing Nut

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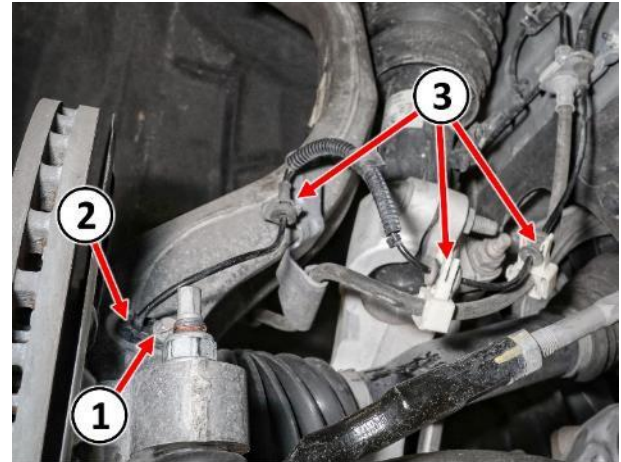
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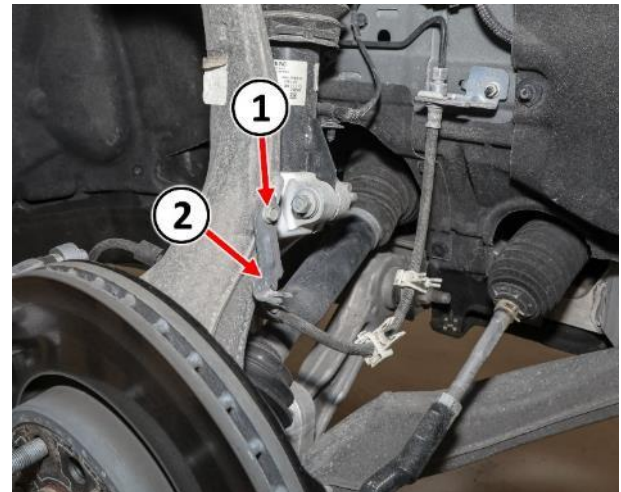
5. Remove the wheel speed sensor bolt (Figure 3).
6. Remove the wheel speed sensor from the steering knuckle (Figure 3).
7. Disengage wheel speed sensor wire harness from the routing clips on the steering knuckle and brake hose (Figure 3).



**Figure 3 – Wheel Speed Sensor**

- 1 - Wheel Speed Sensor
- 2 - Wheel Speed Sensor Bolt
- 3 - Wheel Speed Sensor Wire Harness Retainers

8. Remove the front brake hose bracket bolt (Figure 4).



**Figure 4 – Brake Hose Bracket**

- 1 - Front Brake Hose Bracket Bolt
- 2 - Front Brake Hose Bracket

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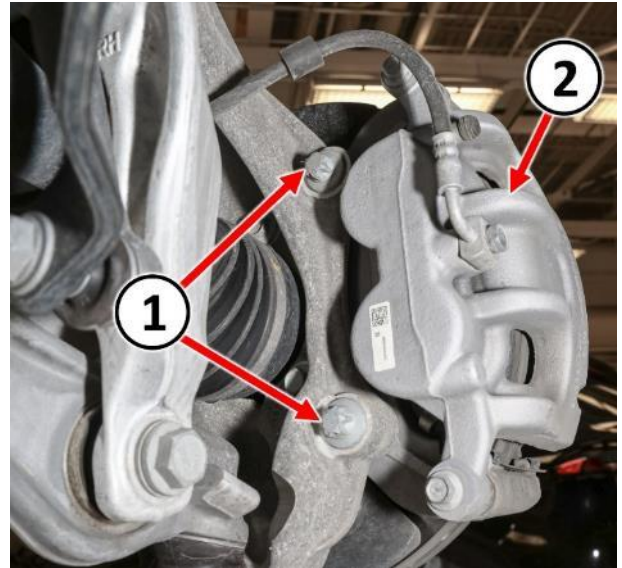
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9. If necessary, use a large C clamp to compress the brake caliper pistons enough to allow for caliper removal.
10. Remove the brake caliper adapter bolts (Figure 5).
11. Remove the brake caliper assembly (Figure 5).
12. Hang the brake caliper assembly using hook or strap.

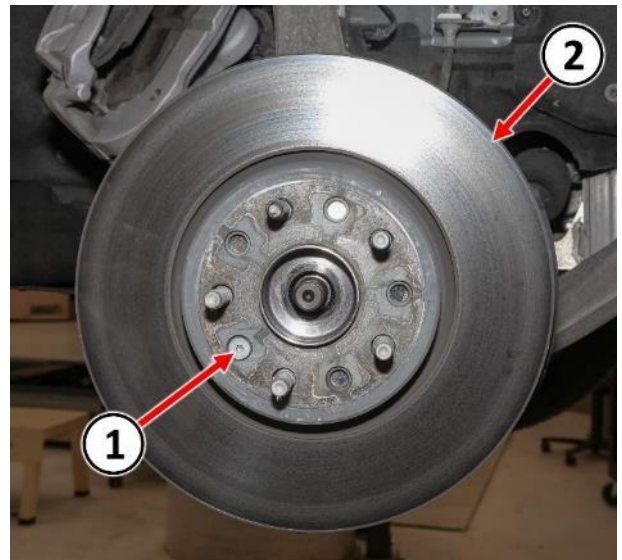
**CAUTION:** Never allow the brake caliper assembly to hang from the brake hose. Damage to the brake hose will result. Provide a suitable support to hang the caliper securely.



**Figure 5 – Brake Caliper**

- 1 - Front Caliper Adapter Bolts
- 2 - Front Brake Caliper Assembly

13. Remove the brake rotor bolt (Figure 6).
14. Remove the brake rotor (Figure 6).



**Figure 6 – Brake Rotor**

- 1 - Brake Rotor Bolt
- 2 - Brake Rotor

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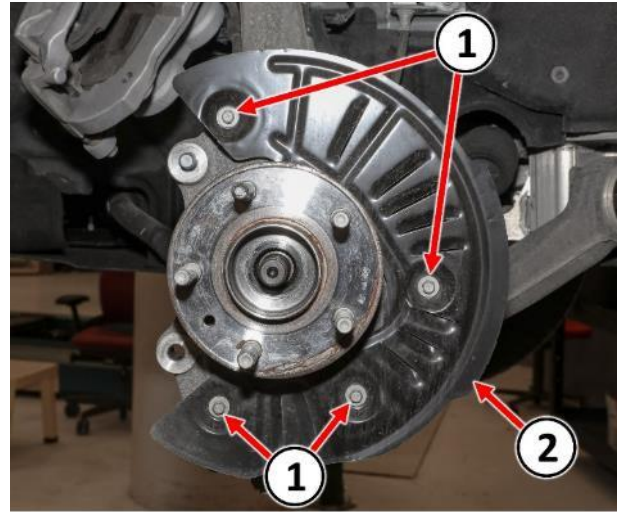


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15. Remove the brake rotor splash shield bolts and remove brake rotor splash shield (Figure 7).

16. Hold the stud, then remove and **DISCARD** the tie rod end nut from the ball stud (Figure 8).

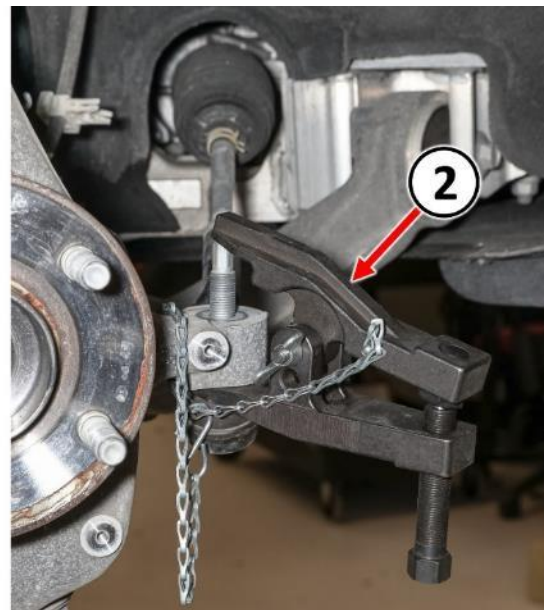
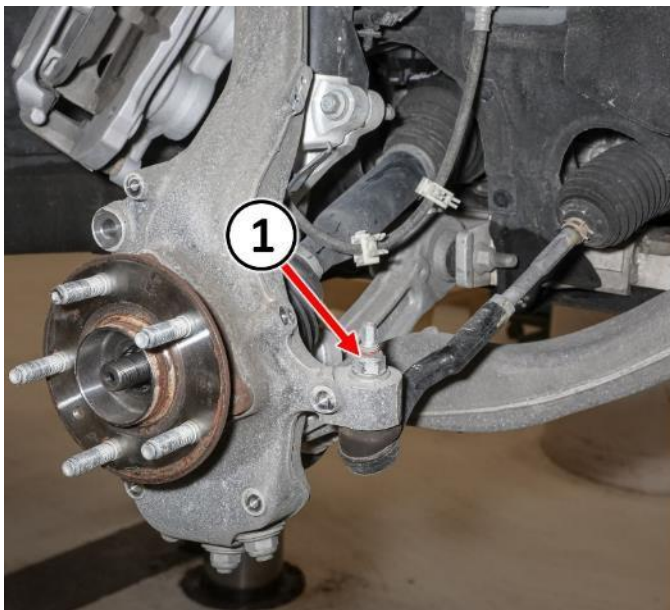
17. Separate the tie rod ball stud from the knuckle using Ball Joint Remover 9360.



**Figure 7 – Brake Rotor Splash Shield**

1 - Brake Rotor Splash Shield Bolts

2 - Brake Rotor Splash Shield



**Figure 8 – Outer Tie Rod End**

1 - Tie Rod End Nut

2 - Ball Joint Remover 9360

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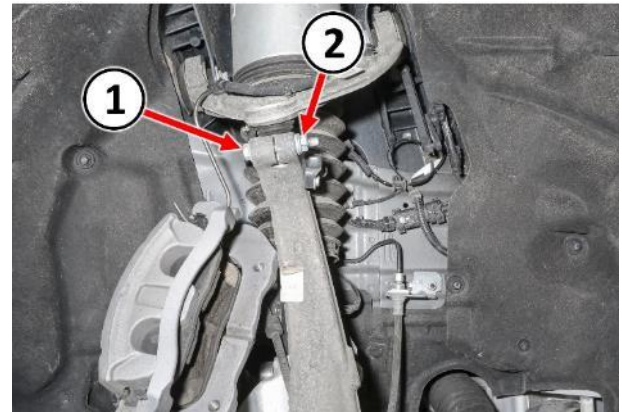
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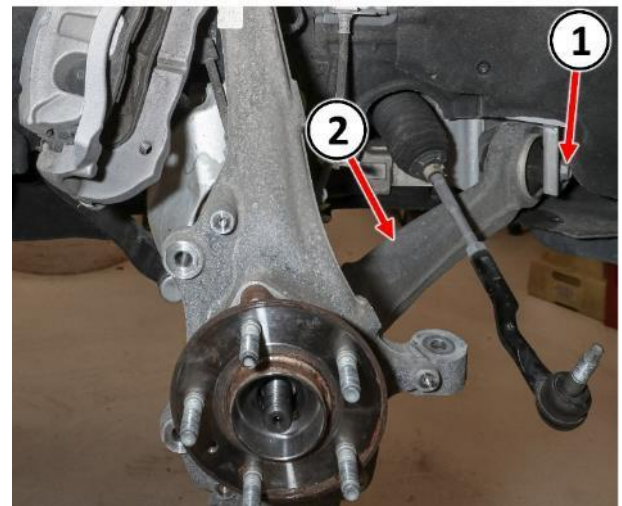
**CAUTION:** The upper control arm must be pulled down slightly so there is no tension drawing the ball joint stud out of the steering knuckle when loosening or tightening the steering knuckle pinch bolt. Steering knuckle pinch bolt damage may occur if the ball joint stud notch is not centered to the steering knuckle pinch bolt.

18. Support the lower control arm spring handling link with a jack stand near the curb height position to avoid steering knuckle pinch bolt damage. Hold the bolt while loosening and removing the nut. **DISCARD** the nut (Figure 9).
19. Apply downward pressure to upper control arm with prybar to remove the steering knuckle pinch bolt then **DISCARD** the bolt (Figure 9).
20. Disengage the upper ball joint stud from the steering knuckle (Figure 9).
21. Remove the jack stand from under the lower control arm spring handling link.
22. Remove and **DISCARD** the tension link bolt (Figure 10).



**Figure 9 – Upper Ball Joint**

- 1 - Steering Knuckle Pinch Bolt
- 2 - Steering Knuckle Pinch Bolt Nut



**Figure 10 – Tension Link**

- 1 - Tension Link Bolt
- 2 - Tension Link

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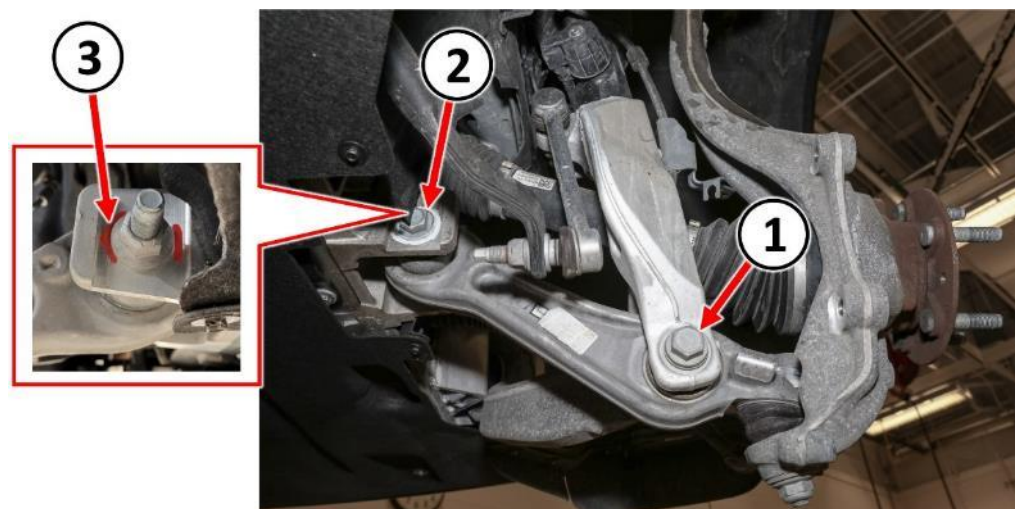
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**CAUTION: DO NOT attempt to rotate the clevis lower nut. The clevis lower nut is pressed in the clevis bracket and damage will occur if the nut is rotated.**

23. Hold the clevis lower nut and remove and **DISCARD** the clevis lower bolt (Figure 11).
24. Mark the relation of the adjustment bolt and nut or eccentric if equipped to the subframe (Figure 11).
25. Remove and **DISCARD** the lower control arm spring handling link adjustment bolt and nut (Figure 11).



**Figure 11 – Spring Handling Link**

- 1 - Clevis Lower Bolt
- 2 - Spring Handling Link Adjustment Bolt
- 3 - Mark Adjustment Bolt/Nut to Subframe Relationship.



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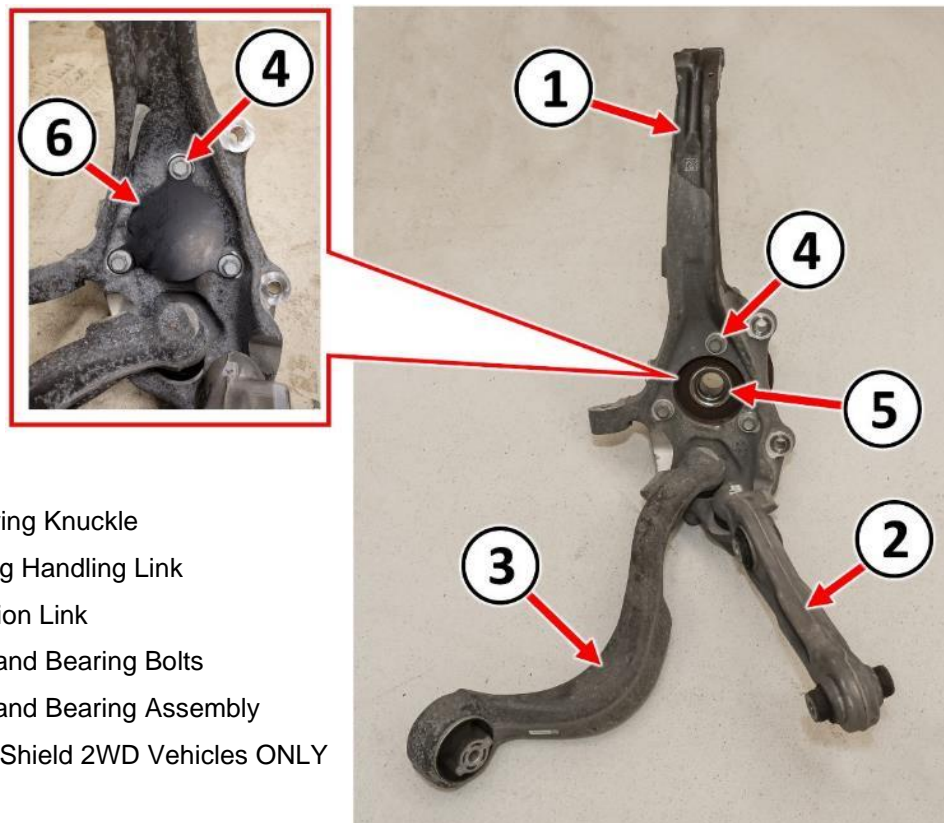
26. Remove the steering knuckle, spring handling link, tension link, hub and bearing as an assembly (Figure 12).

27. Remove the hub and bearing bolts (Figure 12).

**NOTE: 2WD vehicles will also have a dust shield retained by the hub and bearing bolts which will need to be removed (Figure 12).**

28. Remove the hub and bearing assembly from the steering knuckle (Figure 12).

29. **DISCARD** the steering knuckle, spring handling link, tension link assembly (Figure 12).



- 1 - Steering Knuckle
- 2 - Spring Handling Link
- 3 - Tension Link
- 4 - Hub and Bearing Bolts
- 5 - Hub and Bearing Assembly
- 6 - Dust Shield 2WD Vehicles ONLY

**Figure 12 – Steering Knuckle, Suspension Links, Hub and Bearing Assembly**

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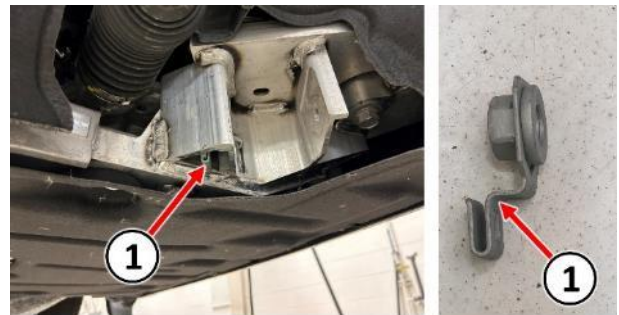
### Installation

30. Install the hub and bearing into the **NEW** steering knuckle then install the bolts. Tighten the bolts to 116 N·m (86 Ft. Lbs.) (Figure 12).

**NOTE: 2WD vehicles will also have a dust shield retained by the hub and bearing bolts which will need to be installed (Figure 12).**

31. Remove and **DISCARD** the tension link nut then install a **NEW** tension Link nut (Figure 13).

**NOTE: In any instance where a bolt is through a rubber bushing, the bolt must be torqued with the vehicle at normal ride height.**



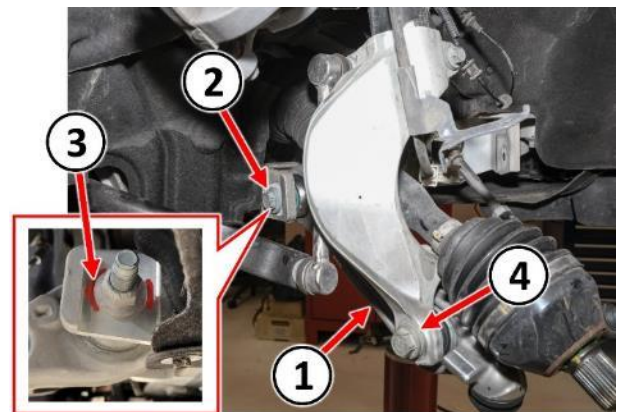
**Figure 13 – Tension Link Nut**

1 - Tension Link Nut

32. Install the **NEW** lower control arm spring handling link (Figure 14).

33. Install the **NEW** lower control arm spring handling link adjustment bolt, **do not tighten at this time** (Figure 14).

34. Install the **NEW** clevis lower bolt while holding the nut, **do not tighten at this time** (Figure 14).



**Figure 14 – Spring Handling Link**

1 - Spring Handling Link

2 - Spring Handling Link Adjustment Bolt

3 - Bolt/Nut to Subframe Relationship Mark.

4 - Clevis Lower Bolt

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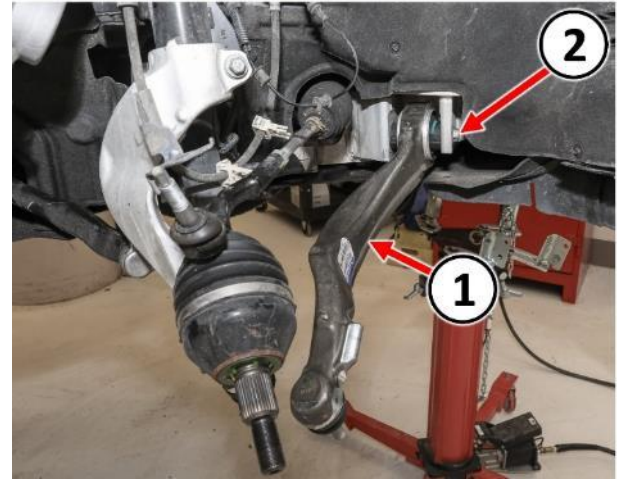
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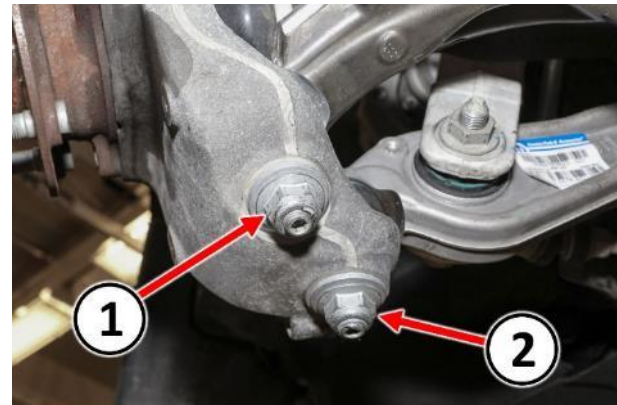
35. Install the **NEW** tension link (Figure 15).
36. Install the **NEW** tension link bolt, **do not tighten at this time** (Figure 15).
37. Support the lower control arm spring handling link with a jack stand near the curb height position.
38. Position the **NEW** steering knuckle to the vehicle.



**Figure 15 – Tension Link**

- 1 – Tension Link
- 2 – Tension Link Bolt

39. Install the lower control arm spring handling link ball joint into the **NEW** steering knuckle. Hold the stud while installing the **NEW** nut. Tighten the nut to 70 + 85° N·m (52 + 85° Ft. Lbs.) (Figure 16).
40. Install the tension link ball joint into the **NEW** steering knuckle. Hold the stud while installing the **NEW** nut. Tighten the nut to 70 + 85° N·m (52 + 85° Ft. Lbs.) (Figure 16).



**Figure 16 – Lower Ball Joints**

- 1 - Tension Link Ball Joint Nut
- 2 - Spring Handling Link Ball Joint Nut

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41. Support the lower control arm spring handling link with a jack stand near the curb height position to avoid steering knuckle pinch bolt damage. Insert the upper ball joint stud into the steering knuckle (Figure 9).

**CAUTION: The upper control arm must be pulled down slightly so there is no tension drawing the ball joint stud out of the steering knuckle when loosening or tightening the steering knuckle pinch bolt. Steering knuckle pinch bolt damage may occur if the ball joint stud notch is not centered to the steering knuckle pinch bolt.**

42. Apply downward pressure to upper control arm with prybar to install the **NEW** pinch bolt to the steering knuckle. Bolt must be installed from rear towards front of vehicle (Figure 9).
43. Install a **NEW** nut on the upper control arm pinch bolt, **do not tighten at this time** (Figure 9).
44. With suspension supported with a jack stand near the curb height position, tighten the following suspension components:
  - Steering knuckle to upper control arm pinch bolt. Hold bolt and tighten the nut to 40 N·m (30 Ft. Lbs.) (Figure 9).
  - Align the mark on the adjustment bolt or eccentric if equipped to the subframe, then tighten the lower control arm spring handling link bolt and nut to 180 N·m (133 Ft. Lbs.) (Figure 14).
  - Hold the clevis lower nut and tighten the clevis lower bolt to 308 N·m (227 Ft. Lbs.) (Figure 14).
  - Tighten the tension link bolt to 145 N·m (107 Ft. Lbs.) (Figure 15).
45. Remove the jack stand from under the lower control arm spring handling link.
46. Install the tie rod ball stud to the steering knuckle. Hold the tie rod ball stud, then install a **NEW** nut and tighten to 54 + 110° N·m (40 + 110° Ft. Lbs.) (Figure 8).
47. Position the brake rotor splash shield and install the bolts. Tighten the bolts to 11 N·m (8 Ft. Lbs.) (Figure 7).
48. Install the brake rotor (Figure 6).
49. Install the brake rotor bolt and tighten to 20 N·m (15 Ft. Lbs.) (Figure 6).
50. Position the brake caliper assembly to the steering knuckle (Figure 5).
51. Install the caliper adapter bolts and tighten to 170 N·m (125 Ft. Lbs.) (Figure 5).
52. Install the front brake hose bracket bolt and tighten securely (Figure 4).

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53. Engage wheel speed sensor wire harness routing clips to the steering knuckle (Figure 3).
54. Install the wheel speed sensor to the steering knuckle (Figure 3).
55. Install the wheel speed sensor bolt and tighten to 6 N·m (53 In. Lbs.) (Figure 3).
56. Pump the brake pedal several times to eliminate any excessive gap between brake pads and rotor which may have been caused by brake caliper removal.
57. **If equipped**, have a helper apply brake pressure then install a **NEW** halfshaft hub and bearing nut and tighten to 310 N·m (229 Ft. Lbs.) (Figure 2).
58. Install the front tire and wheel assembly (Figure 1).
59. Install the lug nuts and Tighten in a star pattern to 176 N·m (130 Ft-Lbs) (Figure 1).
60. **DTC C0050-00 Brake System Hydraulic Leak** may be active after brake caliper was compressed for removal. If this code is set, pump the brake pedal several times to confirm a firm pedal feel (brake pads fully seated) then use the wiTECH scan tool to clear the code.
  - a) Connect the wiTECH MDP to the vehicle data link connector.
  - b) Place the ignition in the "RUN" position.
  - c) Open the wiTECH 2.0 website.
  - d) Enter your "User id" your "Password" and your "Dealer Code", then select "Finish" at the bottom of the screen.
  - e) Starting at the "Vehicle Selection" screen, select the vehicle.
  - f) Select the "Clear All DTCs" tab, then click "Clear All DTCs" and then select "Close". It may be necessary to cycle the ignition to OFF then back to RUN to clear the codes.
61. Perform a wheel alignment. **Refer to the detailed procedures available in DealerCONNECT > Service Library > under: 02 - Front Suspension / Wheel Alignment / Standard Procedure.**
62. Return vehicle to the customer or inventory.

This notice applies to your vehicle,

[Model Year and Model]

VIN XXXXXXXXXXXXXXXXXXXX

07B/NHTSA 24V-131

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.

# IMPORTANT SAFETY RECALL

## Steering Knuckle

Dear [Name],

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

FCA US LLC has decided that a defect, which relates to motor vehicle safety, exists in certain [2024 model year (WL) Jeep Grand Cherokee] 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?

Your vehicle <sup>[1]</sup> may have been built with a front right steering knuckle that is improperly machined. A steering knuckle without finished machining can cause a ball joint to not be seated correctly and the ball joint nut to not be fully tightened which can cause ball joint to knuckle separation. **A ball joint separating from the knuckle results in the wheel falling outboard, which can cause a vehicle crash without prior warning.**

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

FCA US will repair your vehicle <sup>[2]</sup> free of charge (parts and labor). To do this, your dealer will replace the steering knuckle. The estimated repair time is three 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

### 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

#### DEALERSHIP INSTRUCTIONS

Please reference Safety Recall 07B.



**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.