

NUMBER: 05-003-14 REV. A

GROUP: Brakes

DATE: December 20, 2014

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SUBJECT:

Low Frequency Moan Noise Heard During First Brake Apply

OVERVIEW:

This bulletin involves installing an anti-vibration bracket to the rear brake caliper.

MODELS:

2012 - 2015 (MK) Jeep Compass / Patriot

NOTE: This bulletin applies to vehicles equipped with 4-Wheel-Disc Brakes (sales codes BRF or BRG), does NOT apply to Rear Drum Brakes (sales code BRJ).

SYMPTOM/CONDITION:

A low frequency moan noise is heard during the first brake apply when in reverse, while the vehicle is cold or has been parked for several hours.

An audio sound file of the moan noise can be found in DealerCONNECT> TechCONNECT under: Service Info> 05 - Brakes> 05 - Brakes, Base> Diagnosis and Testing.

If the low frequency moan noise can be verified, the addition of the anti-vibration bracket may correct the condition.

DIAGNOSIS:

If the customer describes the symptom, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	68244275AB	Bracket Kit, Anti-Vibration. (Kit includes: 2 brackets, 8 bolts, and 4 nuts)

REPAIR PROCEDURE:

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

2. Remove both rear tire and wheel assemblies for access. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 22 - Tires and Wheels> Removal.
3. Remove and discard the two bolts (1) securing the disc brake caliper adapter to the brake backing plate (Fig. 1).
4. Secure the brake caliper with caliper adapter (2) out of the way (Fig. 1).
5. Remove and discard the nuts (3 and 4) securing the upper and lower control arms to the trailing link (Fig. 1). Do not remove bolts (3 and 4) during this step.



Fig. 1 Remove Rear Brake Caliper

- 1 - Caliper Anchor Mounting Bolts
- 2 - Brake Caliper
- 3 - Upper Control Arm Nut And Bolt
- 4 - Lower Control Arm Nut And Bolt

WARNING:To prevent personal injury and vehicle damage, use a suitable stand (1) to properly support suspension components while replacing the bolts (2 and 3) securing the control arms to the trailing link (Fig. 2).

6. Remove and discard the bolt (2) securing the upper control arm to the trailing link (Fig. 2). Install the **NEW** bolt included with the anti-vibration bracket service kit.

NOTE: It may be helpful to use a pry bar (4) to align the bolt holes in the lower control arm and the trailing link (Fig. 2).

7. Remove and discard the bolt (3) securing the lower control arm to the trailing link (Fig. 2). Install the **NEW** bolt included with the anti-vibration bracket service kit.
8. Install the anti-vibration bracket (5) to the upper and lower control arm bolts (Fig. 2).

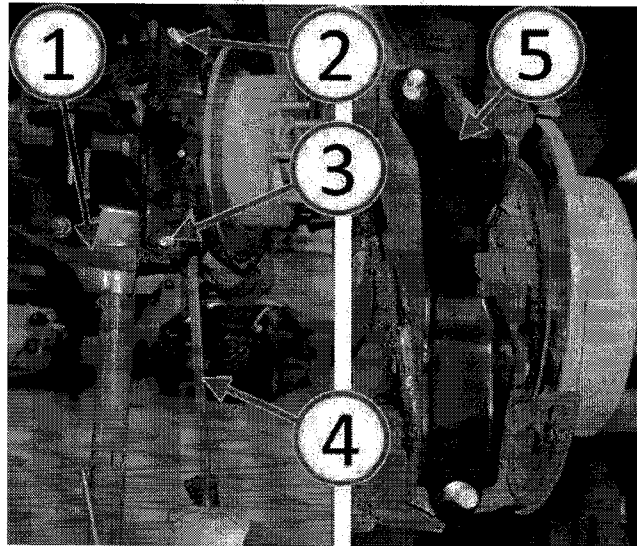


Fig. 2 Install Anti-Vibration Bracket

- 1 - Support Stand
- 2 - Upper Control Arm Bolt
- 3 - Lower Control Arm Bolt
- 4 - Pry Bar
- 5 - Anti-Vibration Bracket

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- 9. Install the brake caliper with caliper adapter (1) (Fig. 3).
 - 10. Install by hand but **do not tighten** both of the **NEW** longer caliper anchor mounting bolts (2) included with the anti-vibration bracket service kit (Fig. 3).
 - 11. Install by hand but **do not tighten** the **NEW** upper and lower control arm nuts (3) included with the anti-vibration bracket service kit (Fig. 3).

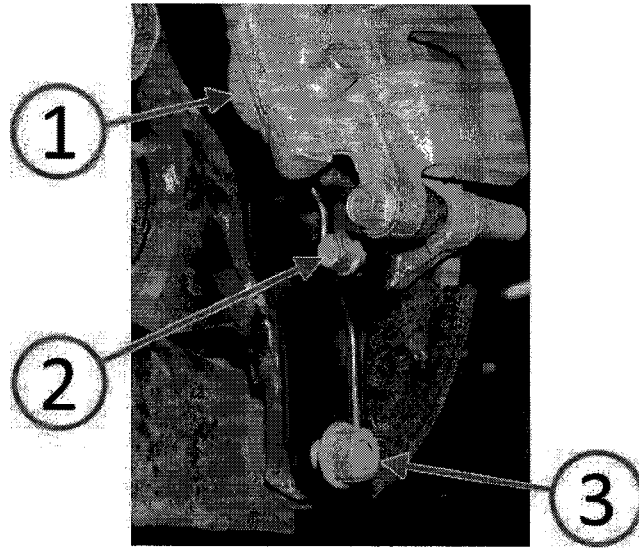


Fig. 3 Install Rear Brake Caliper

- 1 - Brake Caliper
- 2 - Caliper Anchor Mounting Bolts
- 3 - Control Arm Nuts

CAUTION: Ensure there is **NO** gap between the anti-vibration bracket and trailing arm while tightening the control arm nuts and caliper mounting bolts. Any clearance may cause the anti-vibration bracket not to seat properly and may create a brake caliper to anti-vibration bracket clearance concern.

12. Thread the upper and lower control arm nuts (2) fully onto the bolts until no clearance remains between the nuts, anti-vibration bracket, and trailing arm. **Do not tighten the nuts at this time** (Fig. 4).

NOTE: The upper and lower control arm bolts/nuts will be tightened to specification at the end of the service procedure once the vehicle is resting at curb height in order to prevent preloading of the control arm bushings.

13. Tighten the caliper anchor mounting bolts (1) to 68 N•m (50 ft. lbs.) (Fig. 4).
14. Repeat the anti-vibration bracket installation process Step #3 through Step #13 for the opposite side before continuing to Step #15. Installation of both right and left anti-vibration brackets requires the same process.
15. Install both rear tire and wheel assemblies. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 22 - Tires and Wheels> Installation.
16. Lower the vehicle.
17. Position the vehicle on an alignment rack/drive-on lift. Raise the vehicle as necessary to access control arms mounting bolts and nuts.

18. With the vehicle resting at curb height, tighten the bolts and nuts (2) securing the upper and lower control arms to the trailing link to 105 N•m (77 ft. lbs.) (Fig. 4).

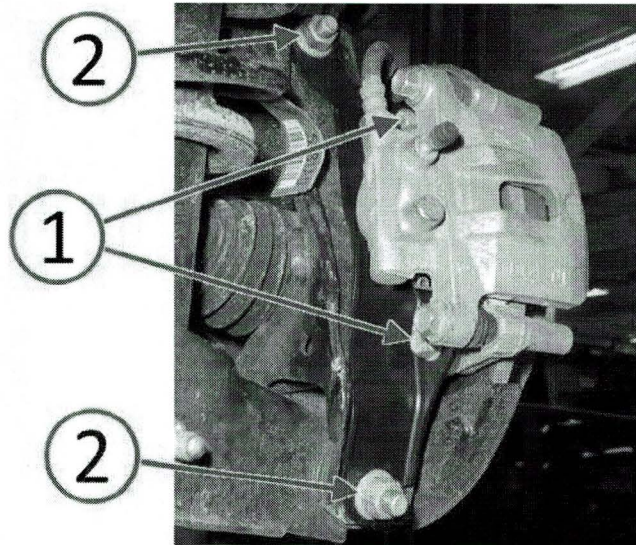


Fig. 4 Brake And Control Arm Fasteners

- 1 - Upper And Lower Control Arm Nuts
- 2 - Brake Caliper Anchor Mounting Bolts

POLICY:
Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
05-85-05-9A	Install Anti-Vibration Bracket Kit (2 - Skilled)	4 - Chassis Systems	0.8 Hrs.

FAILURE CODE:

ZZ	Service Action
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