



**NUMBER:** 05-003-14

**GROUP:** Brakes

**DATE:** July 19, 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                                      Compass / Patriot

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

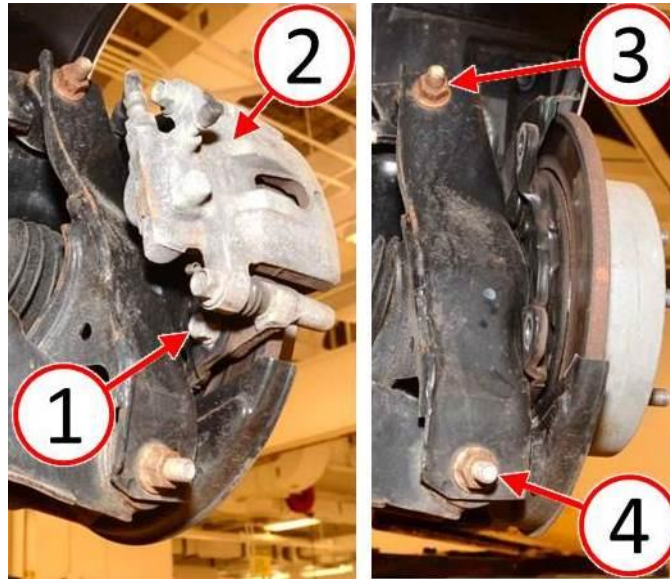
**PARTS REQUIRED:**

Qty.	Part No.	Description
1	68244275AA	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 (2) out of the way (Fig. 1).
5. Remove and discard the nuts (3, 4) securing the upper and lower control arms to the trailing link (Fig. 1).



**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

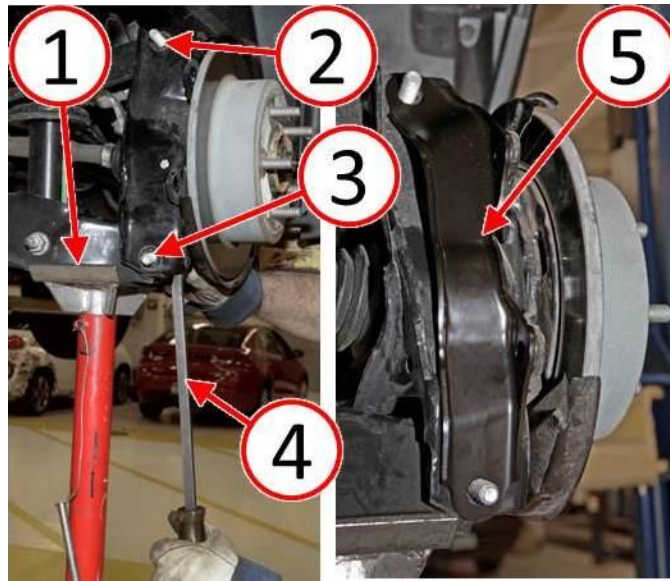
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**WARNING:**To prevent personal injury and vehicle damage, use a suitable stand (1) to properly support suspension components while replacing the bolts (2, 3) securing the control arms to the trailing link (Fig. 2).

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).

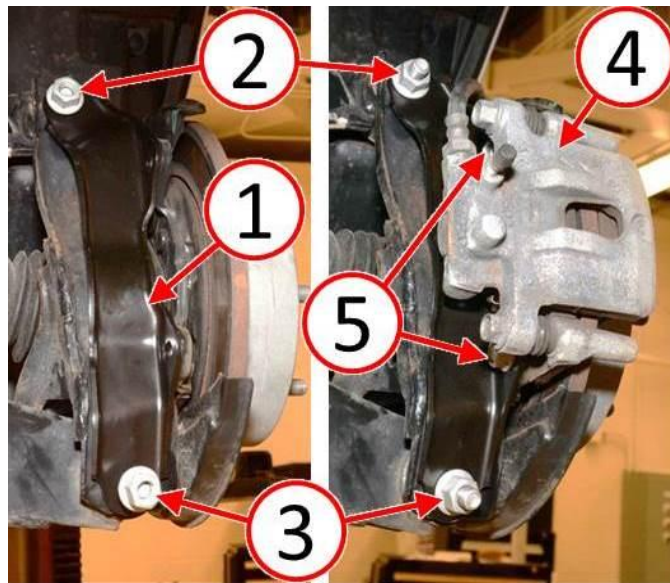
7. Remove and discard the bolt (3) securing the lower control arm to the trailing link (Fig. 2). Install the new bolt included with the anti-vibration bracket service kit.
8. Install the anti-vibration bracket (5) to the upper and lower control arm bolts (Fig. 2).



**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 upper and lower control arm nuts (2, 3) but do not tighten at this time ([Fig. 3](#)).
  10. Install the brake caliper (4) ([Fig. 3](#)).
  11. Align the holes in the anti-vibration bracket with the caliper adapter and brake backing plate, then install the NEW longer caliper anchor mounting bolts (5) included with the anti-vibration bracket service kit ([Fig. 3](#)).
  12. Tighten the caliper anchor mounting bolts (5) to 68 N•m (50 ft. lbs.) ([Fig. 3](#)).
  13. Repeat anti-vibration bracket installation steps for the opposite side. Installation of both right and left anti-vibration brackets requires the same process.
  14. 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.
  15. Lower the vehicle.
  16. With the vehicle resting at curb height, tighten the bolt and nut (2, 3) securing the upper and lower control arms to the trailing link to 105 N•m (77 ft. lbs.) ([Fig. 3](#)).



**Fig. 3 Install Rear Brake Caliper**

- 1 - Anti-Vibration Bracket
- 2 - Upper Control Arm Nut
- 3 - Lower Control Arm Nut
- 4 - Brake Caliper
- 5 - Caliper Anchor Mounting Bolts

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Skill Category	Amount
05-85-05-99	Install Anti-Vibration Bracket Kit (2 - Skilled)	4 - Chassis Systems	0.8 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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