

July 19, 2016

04226 Version 1

Rattle or Clunk from the Rear Suspension

AFFECTED VEHICLES

Year	Model	Trim	VIN range
2014–16	MDX	ALL with 2WD	ALL
2014–16	MDX	ALL with 4WD	ALL

SYMPTOM

Rattle or clunk from the rear suspension.

POSSIBLE CAUSES

The rear dampers and rear upper damper mount bushings have internal damage.

CORRECTIVE ACTION

Replace the both rear dampers and the rear upper damper mount bushings.

PARTS INFORMATION

Part Name	Part Number	Quantity
Damper Unit (2WD)	52611-TZ5-A12	2
Damper Unit (4WD)	52611-TZ6-A12	2
Upper damper Mount Bushings	52631-TZ5-A51	4
Upper Mount Flange Bolts	90172-SJC-A01	6
Lower Damper Flange Bolts	90119-TZ5-A00	2
Lower Arm Bolts	90171-TZ5-A00	4
Center Damper Nut	90364-TZ5-A01	2

CLIENT INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by “do-it-yourselfers,” and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

WARRANTY CLAIM INFORMATION

The normal warranty applies.

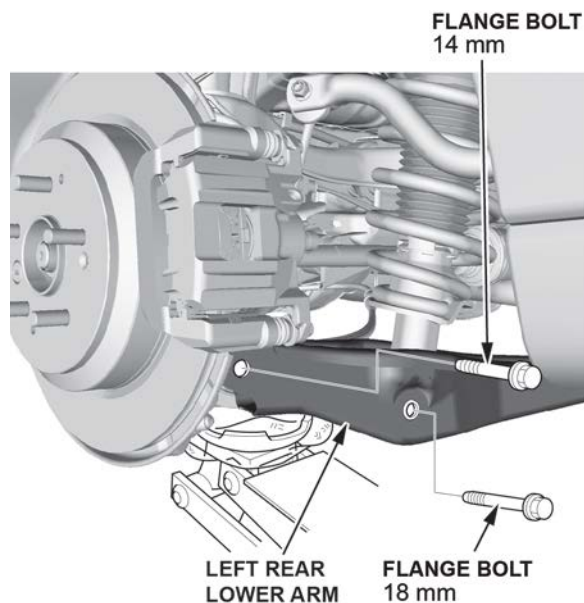
Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
4171C2	Replace both rear dampers and the damper mount bushings. (No alignment-2WD)	1.3 hrs	01101	03214	16-035N	52611-TZ6-A12
4171C2	Replace both rear dampers and the damper mount bushings. (With alignment-2WD)	1.3 hrs	01101	03214	16-035P	52611-TZ6-A12
4165A0	Alignment - add	0.4 hr				

4171C2	Replace both rear dampers and the damper mount bushings. (No alignment-4WD)	1.3 hrs	01101	03214	16-035Q	52611-TZ6-A12
4171C2	Replace both rear dampers and the damper mount bushings. (With alignment-4WD)	1.3 hrs	01101	03214	16-035R	52611-TZ6-A12
4165A0	Alignment - add	0.4 hr				

Skill Level: Repair Technician

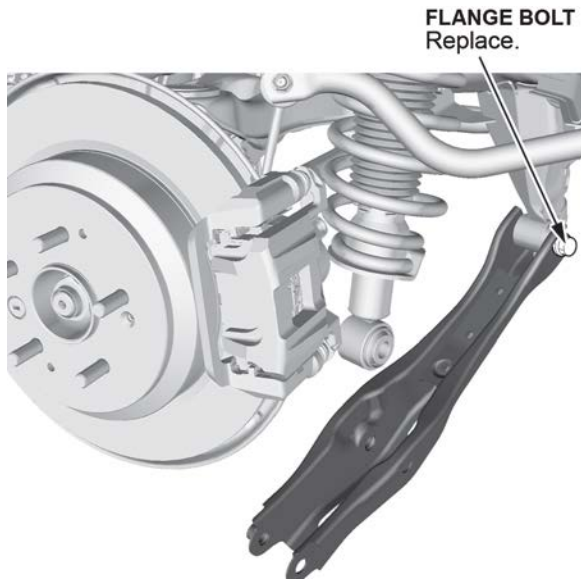
REPAIR PROCEDURE

1. Raise the vehicle on a lift and remove the rear wheels.
2. Position a floor jack under the left rear lower arm.



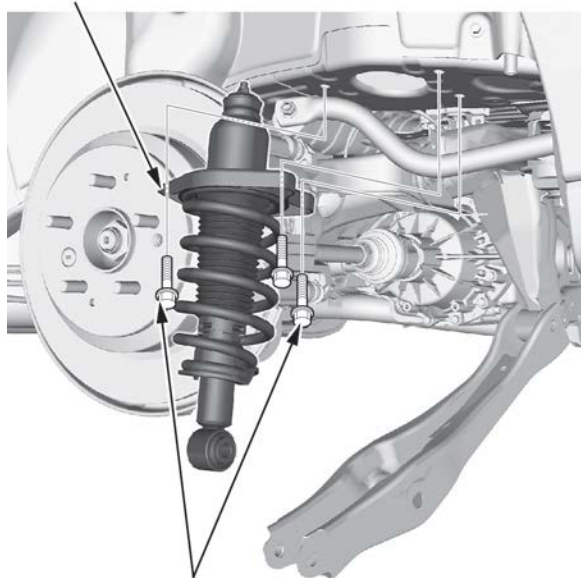
3. Raise the floor jack until the suspension begins to compress.
4. Remove the flange bolt from the bottom of the damper and flange bolt from the knuckle.
5. Lower the floor jack gradually.

6. Loosen the flange bolt.



7. Remove the upper damper mount flange bolts and remove the damper assembly.

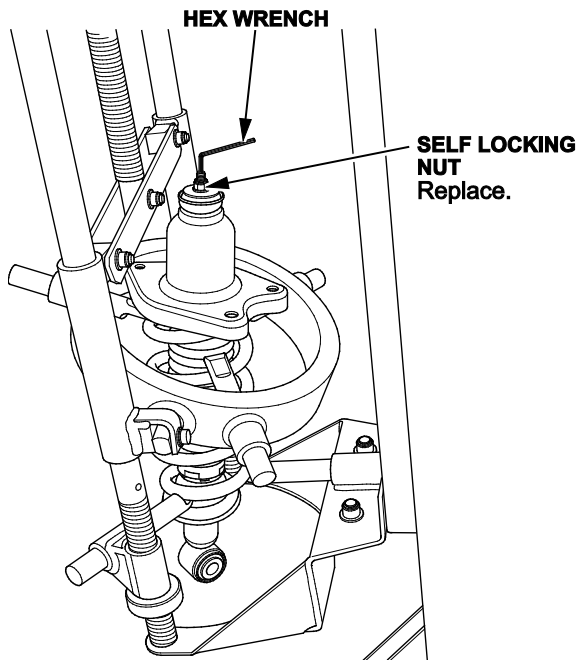
DAMPER ASSEMBLY



8. Compress the damper spring.

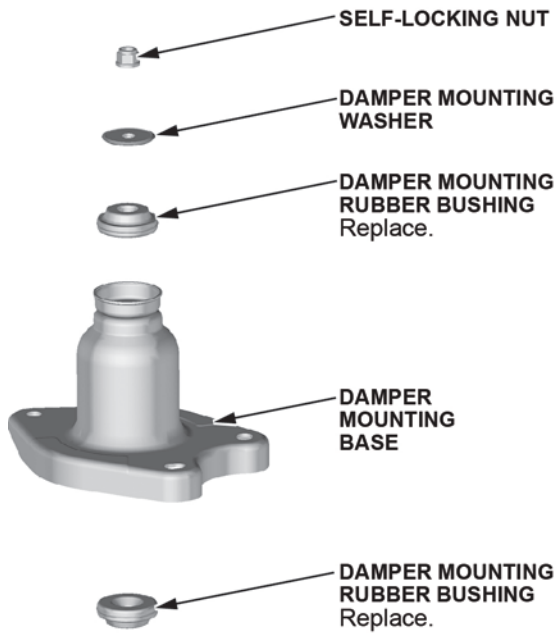
NOTE: Do not compress the spring more than necessary to remove the nut.

9. Remove the self-locking nut while holding the damper with a hex wrench.

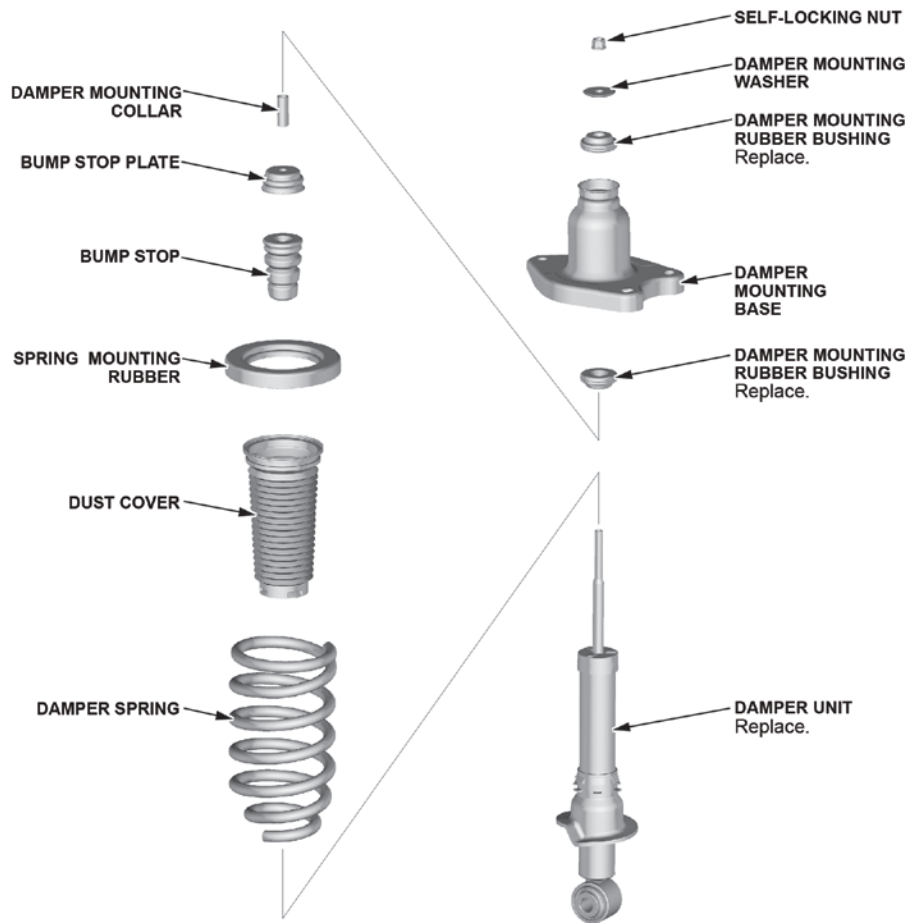


10. Release pressure from the spring compressor slowly.

11. Remove the damper mounting rubber bushings from the damper mounting base and replace them with new bushings.

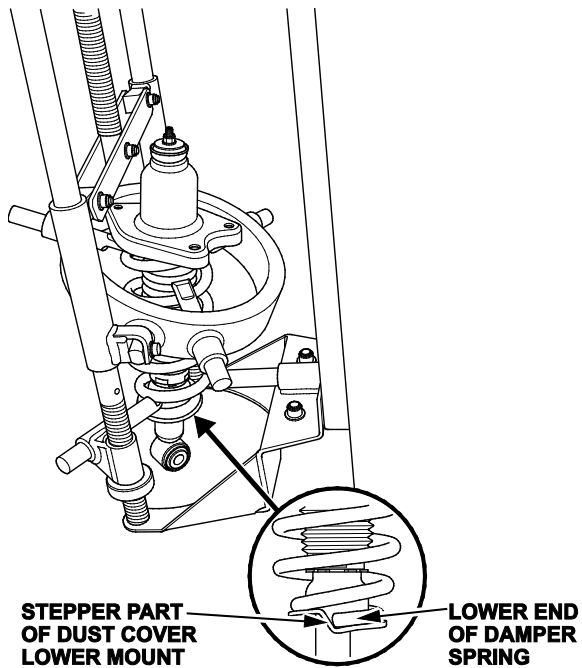


12. Assemble with the new damper unit and damper mounting rubber bushings as shown below. Do not install the mounting washer and self-locking nut at this time.

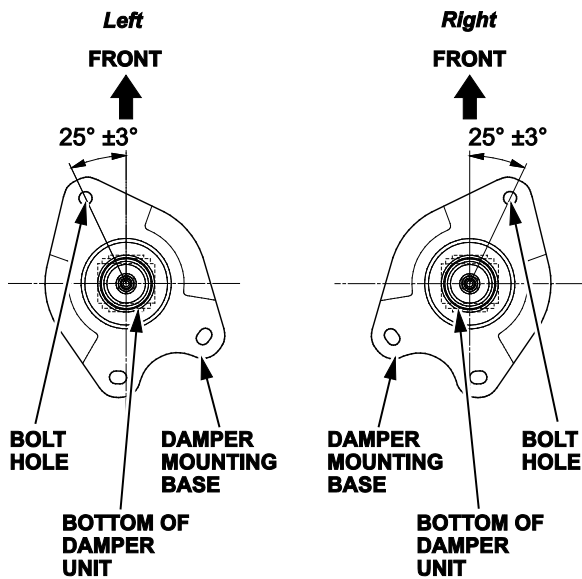


13. Compress the damper spring.

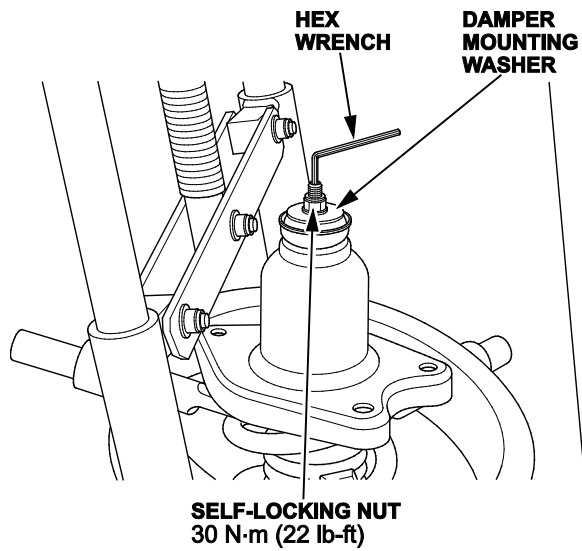
14. Align the lower end of the damper spring with the stepper part of the dust cover lower mount and the lower spring seat on the damper unit.



15. Align the angle of the bolt hole on the damper mounting base with the bottom of the damper unit.



16. Install the damper mounting washer and loosely install the new self-locking nut. Hold the damper shaft with a hex wrench and tighten the self-locking nut to **30 N·m (22 lb-ft)**.

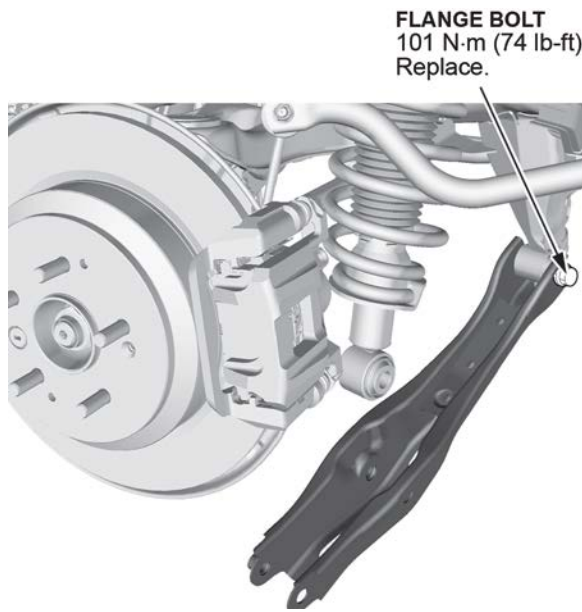


17. Install the damper assembly and loosely install the new upper flange bolts.

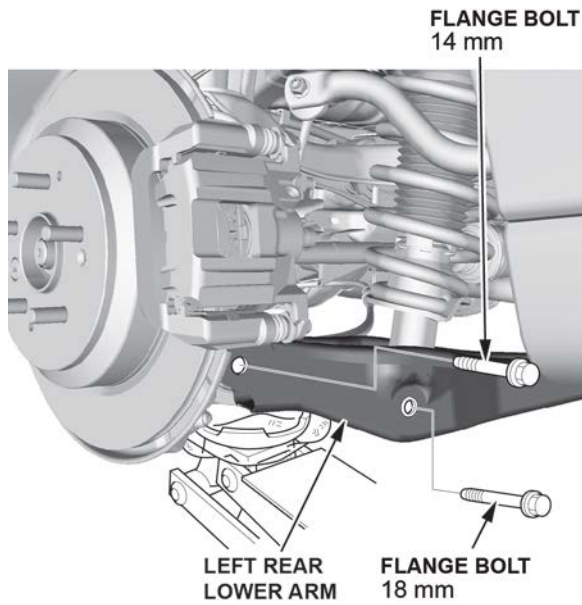
DAMPER ASSEMBLY



18. Install a new flange bolt and torque to **101 N·m (74 lb-ft)**.



19. Position a floor jack under the lower arm. Then gradually raise the arm into place and loosely install new flange bolts.



20. With all the flange bolts loosely installed, load the suspension with the vehicle's weight.

21. Torque the upper damper mount flange bolts to **54 N·m (40 lb-ft)**.

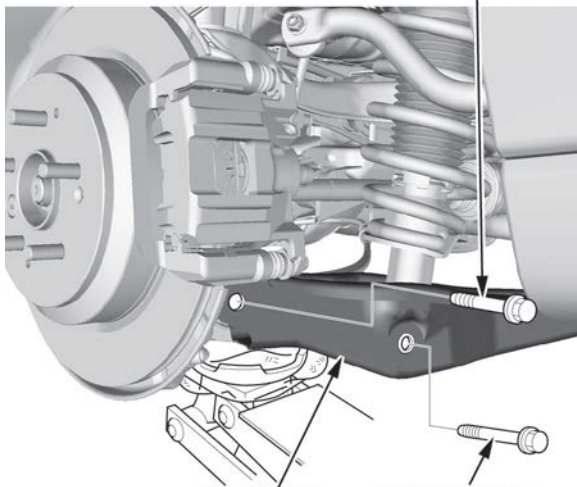
DAMPER ASSEMBLY



**UPPER DAMPER MOUNT
FLANGE BOLTS (3)**
54 N·m (40 lb-ft)
Replace.

22. Torque the lower arm B flange bolt to **101 N·m (74 lb-ft)** and the lower damper flange bolt to **179 N·m (132 lb-ft)**.

FLANGE BOLT
14 mm
101 N·m (74 lb-ft)



**LEFT REAR
LOWER ARM**

FLANGE BOLT
18 mm
179 N·m (132 lb-ft)

23. Repeat steps 2 thru 22 for the opposite side.

24. Do the wheel alignment check.

END