

Applies To: **2006–07 Civic – ALL**  
**2006–08 Civic Hybrid – ALL**

**February 26, 2014**

## Uneven or Rapid Rear Tire Wear

(Supersedes 13-047, *Warranty Extension: Uneven or Rapid Rear Tire Wear*, dated June 14, 2013; see REVISION SUMMARY)

### REVISION SUMMARY

This bulletin has expired as a Warranty Extension and is now a bulletin subject to the normal warranty.

### BACKGROUND

The rear suspension geometry (camber) on some models may cause uneven or rapid rear tire wear. This wear may appear as diagonal lines or inner edge tread wear. Tires in an advanced stage of this diagonal or inner-edge wear may vibrate at highway speeds and/or make a roaring noise that sounds like a bad bearing. (See TIRE INSPECTION for information about wear patterns.)

### CORRECTIVE ACTION

Install a rear upper arm kit, including new flange bolts, and do a four-wheel alignment to the new specification listed in REPAIR PROCEDURE.

### PARTS INFORMATION

NOTE: To help clarify where new parts are used in the REPAIR PROCEDURE, the new part is listed in the applicable step with a ">" symbol.

Rear Upper Arm Kit:

P/N 04523-SNA-A01

Includes:

Rear Upper Arm (2)

Flange Bolt (12 x 51 mm) (4)

Flange Bolt (12 x 95 mm) (2)

### WARRANTY CLAIM INFORMATION

The normal warranty applies.

OP#	Description	FRT
4191B6	Install rear upper control arm kit.	0.5
B	Do a four-wheel alignment.	0.8

Failed Part: P/N 04523-SNA-A00

Defect Code: 00504

Symptom Code: 04217

Skill Level: Repair Technician

### DIAGNOSIS

1. Make sure the vehicle's suspension is not modified, and that it has the correct sized tires and wheels (or Honda Genuine accessory wheels, tires, and suspension).

*Are the tires, wheels, and suspension the correct type?*

**Yes** – Go to step 2.

**No** – Disregard this service bulletin, and continue with normal troubleshooting (collision damage, driving habits, alignment, tire pressures, etc.).

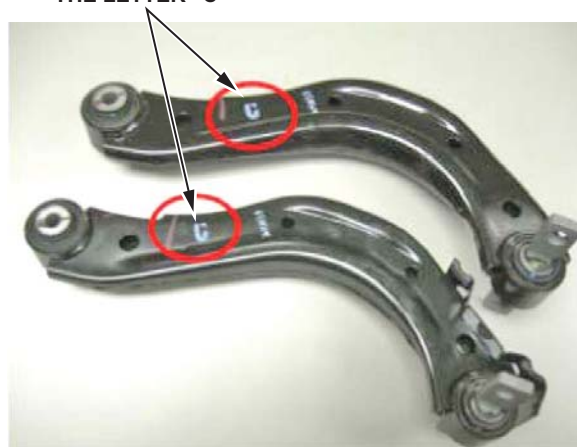
2. Inspect the rear upper arms.

*Do the arms have the letter "C" painted or stamped on them?*

**Yes** – This vehicle already has the revised rear upper arms. Disregard this service bulletin, and continue with normal troubleshooting (collision damage, driving habits, alignment, tire pressures, etc.).

**No** – Go to step 3.

THE LETTER "C"



3. Inspect the tires and/or the documentation from the customer and refer to TIRE INSPECTION.

*Do the tires show diagonal or inner edge wear, or has the customer provided written documentation showing that the tires have experienced diagonal or inner edge wear in the past?*

**Yes** – Go to REPAIR PROCEDURE.

**No** – The wear is not camber related. Disregard this service bulletin, and continue with normal troubleshooting (collision damage, driving habits, alignment, tire pressures, etc.).

## TIRE INSPECTION

### Diagonal Wear Lines

The tire is no longer round. There are high and low spots on the tire worn in a diagonal pattern across the tread.



The tread is worn diagonally across the tire.

### Inner Edge Tread Wear

The inner edge tread is worn more than the outer edge tread.

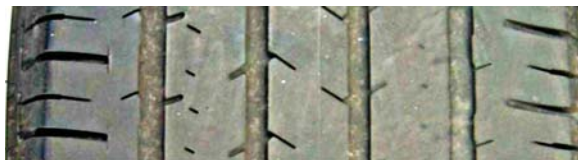
OUTER

INNER



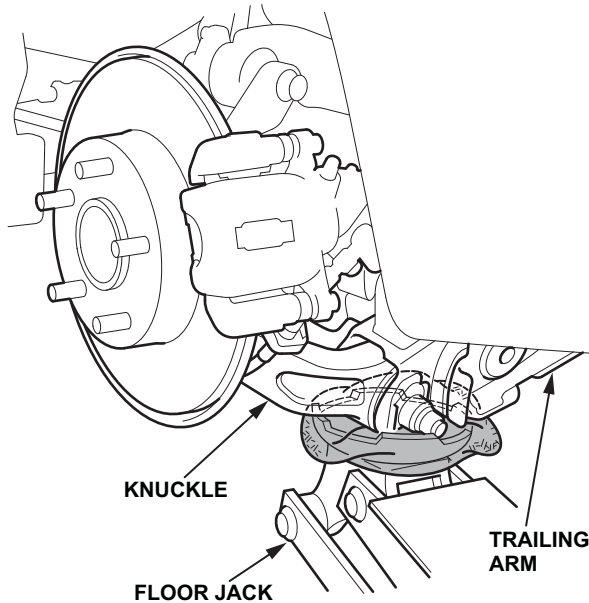
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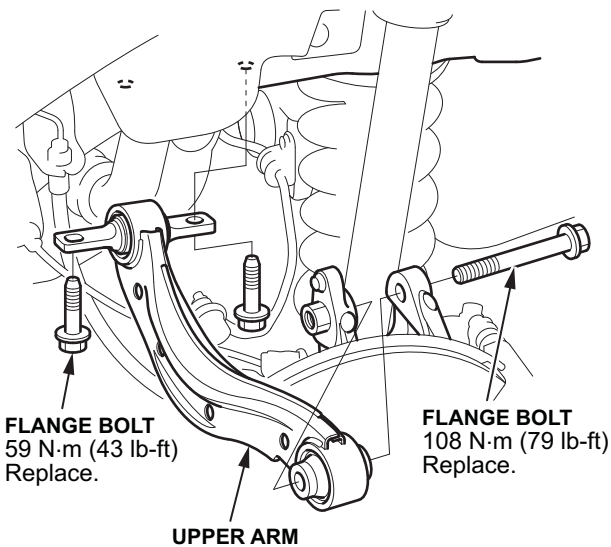


## REPAIR PROCEDURE

1. Raise the vehicle on a lift until the tires are about 6 in. off the ground.
2. Remove the rear wheels.
3. Position a floor jack at the connecting point of the trailing arm and the knuckle. Raise the floor jack until the suspension begins to compress.



4. Remove the two 51 mm flange bolts.



5. Remove the 95 mm flange bolt from the knuckle, and remove the rear upper arm.

6. Install the replacement upper arm using the new flange bolts.
  - > Rear Upper Arm
  - > Flange Bolt (12 x 95 mm)
  - > Flange Bolt (12 x 51 mm) (2)
  - First install all of the components, and lightly tighten the bolts, then raise the suspension to load it with the vehicle's weight before torquing the bolts.
    - Torque the 51 mm bolts to **59 N•m (43 lb-ft)**
    - Torque the 95 mm bolt to **108 N•m (79.6 lb-ft)**
  - Before installing the wheel, clean the mating surfaces between the brake disc or brake drum and the inside of the wheel.

NOTE: Make sure you replace the flange bolts.

7. Repeat steps 3 through 6 for the other side.
8. Set the tire pressures to the specifications on the driver's doorjamb label.
9. Do a four-wheel alignment using the new rear camber specification listed below:

**Rear camber specification range:**

**- 0° 45' ± 45'**

**Front toe: 0 mm (+2 mm/-2 mm)**

**Rear toe: 2 mm (+2 mm/-1 mm)**