Applies To: **2002–06 CR-V** – ALL with 4WD
2007 CR-V – From VIN 5J6RE4...7L000001 thru 5J6RE4...7L019269
2007 CR-V – From VIN JHLRE4...7C000001 thru JHLRE4...7C068888

August 12, 2009

Moan or Groan From the Rear Differential

(Supersedes 07-024, dated May 5, 2009, to revise the information marked by the black bars)

REVISION SUMMARY

In Applies To, the 2007 Japan-produced model VIN range was changed.

BACKGROUND

A moaning or groaning comes from the rear differential when making a sharp or tight turn at low speeds.

PROBABLE CAUSE

Contamination in the rear differential fluid.

CORRECTIVE ACTION

Replace the rear differential fluid, and burnish the rear differential clutches.

REQUIRED MATERIALS

Honda Dual Pump System Fluid II:
P/N 08200-9007, H/C 8632044

2002–04 models: 1.1 quarts per vehicle per replacement (2.2 quarts total)

2005–07 models: 1.3 quarts per vehicle per replacement (2.6 quarts total)

WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

Operation Number:	2191N7
Flat Rate Time:	1.1 hours
Failed Part:	P/N 41011-PNZ-307 H/C 7363658
Defect Code:	08103
Symptom Code:	04216
Skill Level:	Repair Technician

Out of warranty: Any repair performed after warranty expiration may be eligible for goodwill consideration by the District Parts and Service Manager or your Zone Office. You must request consideration, and get a decision, before starting work.

REPAIR PROCEDURE: 2002–04 MODELS

1. Replace the rear differential fluid:
   - Refer to page 15-13 of the *2002–04 CR-V Service Manual*, or
   - Online, enter keywords **REAR DIFF,** and select **Rear Differential Fluid Inspection and Replacement (4WD)** from the list.
2. Raise the vehicle on a lift until all four wheels are completely off the ground and can rotate freely.
3. Start the engine, and let it idle until the radiator fan cycles on and off twice.
4. Burnish the rear differential clutches:

   Automatic transmission models –
   - Set the parking brake, and shift the transmission to D. Let the engine idle for 5 minutes.
   - With the shift lever in D, release the parking brake, keep the wheel speed at 10 mph, and let all four wheels rotate freely for 5 minutes.
   - Apply the brakes to stop the wheels, repeat the bulleted steps one more time, then go to step 5.

   Manual transmission models –
   - With the engine idling and the parking brake released, shift the transmission into 1st, release the clutch, and let the wheels rotate for 5 minutes.
   - Disengage the clutch, and apply the brakes to stop the wheels. Shift the transmission into reverse, release the clutch, and let the wheels rotate for 5 minutes.
   - Shift the transmission into neutral, then apply the brakes to stop the wheels.
   - Repeat the bulleted steps one more time, then go to step 5.
5. Shift the transmission to P (A/T) or neutral (M/T), and turn off the engine.
6. Let the rear differential cool for 10 minutes.

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Skill Level
R
REPAIR

CUSTOMER 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 Honda automobile dealer.

7. Replace the rear differential fluid:
   - Refer to page 15-13 of the service manual, or
   - Online, enter keywords **REAR DIFF** and select **Rear Differential Fluid Inspection and Replacement (4WD)** from the list.

8. To confirm the repair, test-drive the vehicle for 2 miles, making as many turns as possible (at least 20). If the noise is still there, repeat steps 2 thru 8.

REPAIR PROCEDURE: 2005–07 MODELS

1. Replace the rear differential fluid:
   - Refer to the Rear Differential section of the appropriate service manual, or
   - Online, enter keywords **REAR DIFF,** and select **Rear Differential Fluid Inspection and Replacement (4WD)** from the list.

2. Raise the vehicle on a lift until all four wheels are completely off the ground and can rotate freely.

3. Start the engine, and let it idle until the radiator fan cycles on and off twice.

4. Turn off the VSA.

5. Burnish the rear differential clutches:

   Automatic transmission models –
   - Set the parking brake, and shift the transmission to R. Let the engine idle for 5 minutes.
   - Shift the transmission to D. Release the parking brake, and keep the wheel speed at 10 mph for 5 minutes.
   - Apply the brakes to stop the wheels, repeat the bulleted steps one more time, then go to step 6.

   Manual transmission models –
   - With the engine idling and the parking brake released, shift the transmission into 1st, release the clutch, then keep the wheel speed at 20 mph for 5 minutes.
   - Disengage the clutch, and apply the brakes to stop the wheels. Shift the transmission into reverse, release the clutch, then keep the wheel speed at 10 mph for 5 minutes.
   - Shift the transmission into neutral, then apply the brakes to stop the wheels.
   - Repeat the bulleted steps one more time, then go to step 6.

6. Shift the transmission to P (A/T) or neutral (M/T), and turn off the engine.

7. Let the rear differential cool for 10 minutes.

8. Replace the rear differential fluid:
   - Refer to the Rear Differential section of the appropriate service manual, or
   - Online, enter keywords **REAR DIFF** and select **Rear Differential Fluid Inspection and Replacement (4WD)** from the list.

9. To confirm the repair, test-drive the vehicle for 2 miles, making as many turns as possible (at least 20). If the noise is still there, repeat steps 2 thru 9.