



Applies To: **2002–06 CR-V** – ALL with 4WD

April 20, 2007

Moan or Groan From Rear Differential

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 oil.

CORRECTIVE ACTION

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

REQUIRED MATERIALS

Dual Pump Fluid: P/N 08200-9002, H/C 6512644

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

2005–06 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 keyword **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.
7. Replace the rear differential fluid:
 - Refer to page 15-13 of the service manual, or
 - Online, enter keyword **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. If the noise is still there, repeat steps 2 thru 8.

REPAIR PROCEDURE: 2005–06 MODELS

1. Replace the rear differential fluid:
 - Refer to page 15-18 of the *2005–06 CR-V Service Manual*, or
 - Online, enter keyword **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 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 5.
Manual transmission models –
 - With the engine idling and the parking brake released, shift the transmission into 1st, release the clutch. 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 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.
7. Replace the rear differential fluid:
 - Refer to page 15-18 of the service manual, or
 - Online, enter keyword **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. If the noise is still there, repeat steps 2 thru 8.