



Noisy Rear Differential

SYMPTOM

A squealing or moaning noise is heard from the rear of the vehicle when the front tires are slipping during acceleration or when the vehicle is turning.

PROBABLE CAUSE

Water entered the differential through the breather tube and contaminated the differential fluid.

CORRECTIVE ACTION

Flush the differential with new fluid and/or replace the differential clutch set.

PARTS INFORMATION

Breather Tube Assembly: P/N 41130-P6R-020

Differential Clutch Set: P/N 48010-P6R-305

Rear Differential Mounting Bracket:

P/N 50710-S10-A01

Honda Dual Pump Fluid: P/N 08200-9002

WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

Description	FRT
Flush the differential	0.6
Flush the differential; replace the differential clutch set, the mounting bracket, and the breather tube	3.7
Flush the differential; replace the clutch set and the breather tube	3.0
Flush the differential, and replace the clutch set	2.8

Failed Part: A/T, P/N 41011-P6R-315
M/T, P/N 41011-P6R-316

DIAGNOSIS

1. Test-drive the vehicle on a dirt or gravel road. From a stop, accelerate hard to make the front tires slip.
 - If the rear differential makes noise, go to the REPAIR PROCEDURE.
 - If the rear differential does not make noise, go to step 2.

2. Test-drive the vehicle in a circle on a paved, open parking lot at about 10 mph while holding the steering wheel in a full-lock position.
 - If the rear differential makes noise, go to the REPAIR PROCEDURE.
 - If the rear differential does not make noise, disregard this bulletin and troubleshoot other causes.

REPAIR PROCEDURE

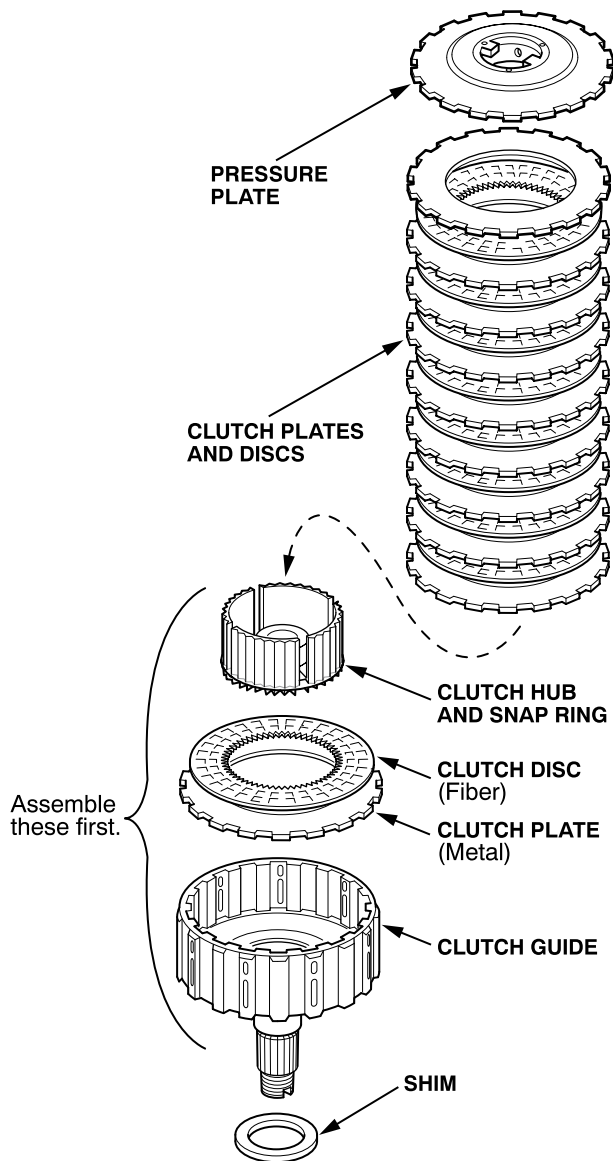
1. Start the engine. Hold the engine at 3,000 rpm with no load (in Park or Neutral) until the radiator fan comes on.
2. Raise the vehicle on a hoist.
3. Circulate the Dual Pump Fluid through the clutch assembly:
 - On A/T models: Apply the parking brake, put the transmission into D₄, and let the vehicle idle for 5 minutes.
 - On M/T models: Put the transmission into 1st gear and engage the clutch. Slowly apply the parking brake until just before the engine stalls. Let the engine run like this for 5 minutes.
4. Engage both differential pumps:
 - On A/T models: Release the parking brake, and let the vehicle idle in D₄ for 5 minutes.
 - On M/T models: Release the parking brake, and let the vehicle idle in 3rd or 4th gear for 5 minutes.
5. Turn the ignition switch OFF, and put the vehicle in Park or Neutral.
6. Drain the rear differential.
 - If the fluid looks and smells burnt, go to step 8.
 - If the fluid looks normal and does not smell, refill the differential, repeat steps 3 thru 6 two more times, then go to step 7.
7. Test-drive the vehicle as you did for DIAGNOSIS.
 - If the differential is still noisy, go to step 8.
 - If the noise is gone, return the vehicle to the customer.
8. Remove and disassemble the rear differential. Refer to section 15 of the 1997 CR-V Shop Manual.
9. Remove and discard the original differential clutch assembly and the shim.

10. Reassemble the differential using the new clutch assembly and the new shim.

- If the new differential clutch set came apart during shipping, go to step 11.
- If the new differential clutch set did *not* come apart during shipping, go to step 12.

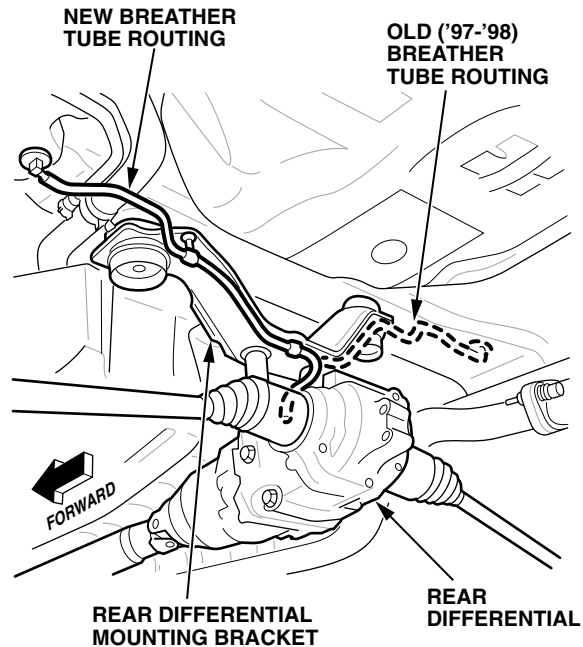
11. Assemble the new differential clutch.

- Apply fresh Dual Pump Fluid to the new clutch plates and the clutch discs.
- Install one clutch plate and one clutch disc in the clutch guide, then install the clutch hub into the clutch guide.
- Make sure the splines of the clutch hub and the clutch discs line up.
- Install the clutch plates and clutch discs alternately until you have installed eleven plates and ten discs.



12. Reinstall the rear differential in the reverse order of removal. Note the following.

- For 1997 models, replace the rear differential mounting bracket. Replace and reroute the breather tube to the driver's side of the vehicle (see Parts Information).
- For 1998 models, replace and reroute the breather tube to the driver's side of the vehicle (see Parts Information).
- For 1999 models, no new parts are required.



13. Fill the rear differential with Dual Pump Fluid.

14. Start the engine. Hold the engine at 3,000 rpm with no load (in Park or Neutral) until the radiator fan comes on.

15. Raise the vehicle on a hoist.

16. Circulate the Dual Pump Fluid through the clutch assembly:

- On A/T models: Apply the parking brake, put the transmission into D₄, and let the vehicle idle for 10 minutes.
- On M/T models: Put the transmission into 1st gear and engage the clutch. Slowly apply the parking brake until just before the engine stalls. Let the engine run like this for 10 minutes.

17. Test-drive the vehicle as you did in the DIAGNOSIS to verify the repair.