

August 2, 2014

ATB 51986 (1408)

Noise From the Rear Differential

AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2012-14	CR-V	AWD Only	ALL

SYMPTOM

There is a creak or groan from the rear differential upon light acceleration from a stop.

POSSIBLE CAUSES

The electric oil pump motor on the rear differential has too much internal clearance.

CORRECTIVE ACTION

Replace the rear differential pump motor.

PARTS INFORMATION

Part Name	Part Number	Quantity
Rear Differential Pump Motor Kit (includes O-ring and intermediate drive joint)	41013-R7L-000	1

REQUIRED MATERIAL

Part Name	Part Number	Quantity
Hard Wall PVC Tubing: 12 inch length, ½ inch ID and 5/8 inch OD, 1/16 inch wall thickness.(commercially available, McMaster-Carr)	53945K15	1

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Template ID	Failed Part Number
2191X1	Replace rear differential pump motor.	0.4 hour	14-047A	48900-R7L-033

Defect Code: 06201

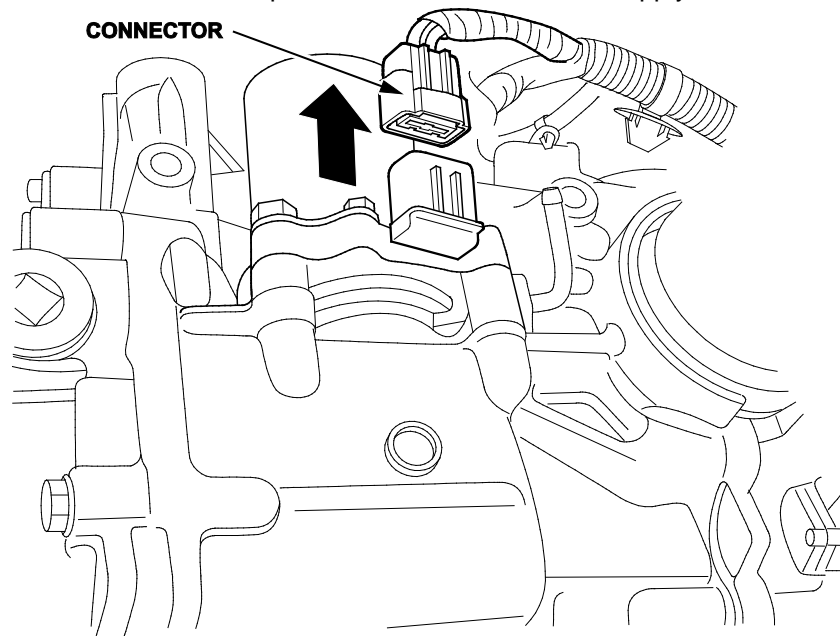
Symptom Code: 04216

Skill Level: Repair Technician

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.

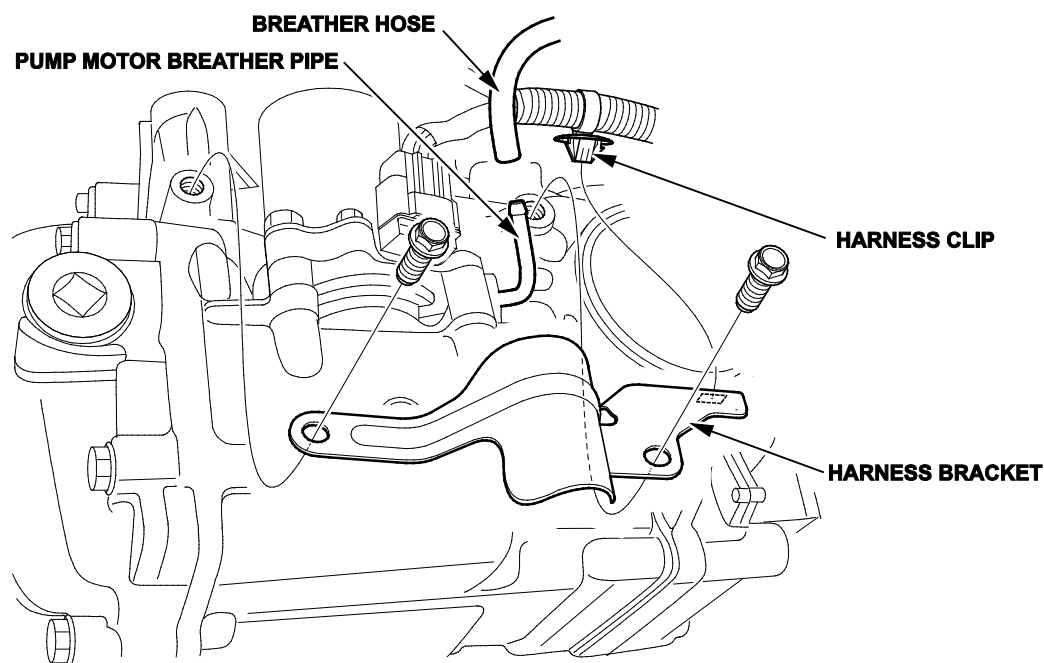
DIAGNOSIS

1. Raise the vehicle on a lift, then disconnect the rear differential oil pump motor 2P connector.
2. Lower the vehicle.
3. Start the vehicle. Apply the brake pedal, put the transmission in gear, and listen for the noise as soon as you release the brake.
 - If there is no noise, go to REPAIR PROCEDURE.
 - If the noise is still present, this bulletin does not apply. Continue with normal troubleshooting.

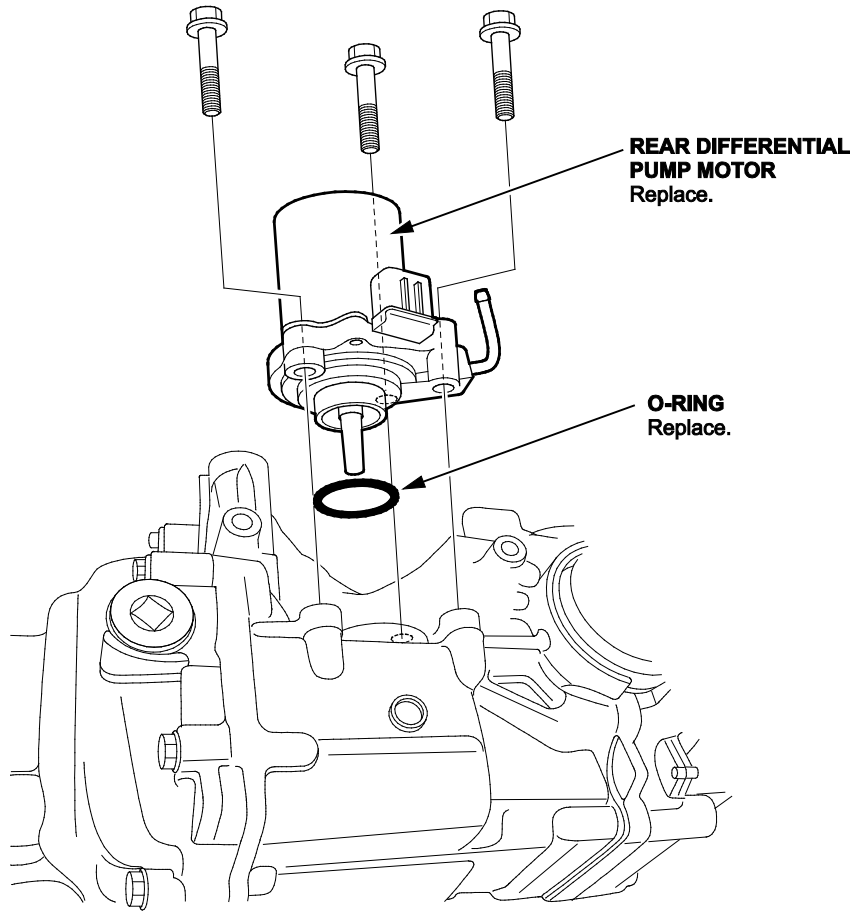


REPAIR PROCEDURE

1. Raise the vehicle on a lift.
2. Disconnect the breather hose from the pump motor breather pipe.



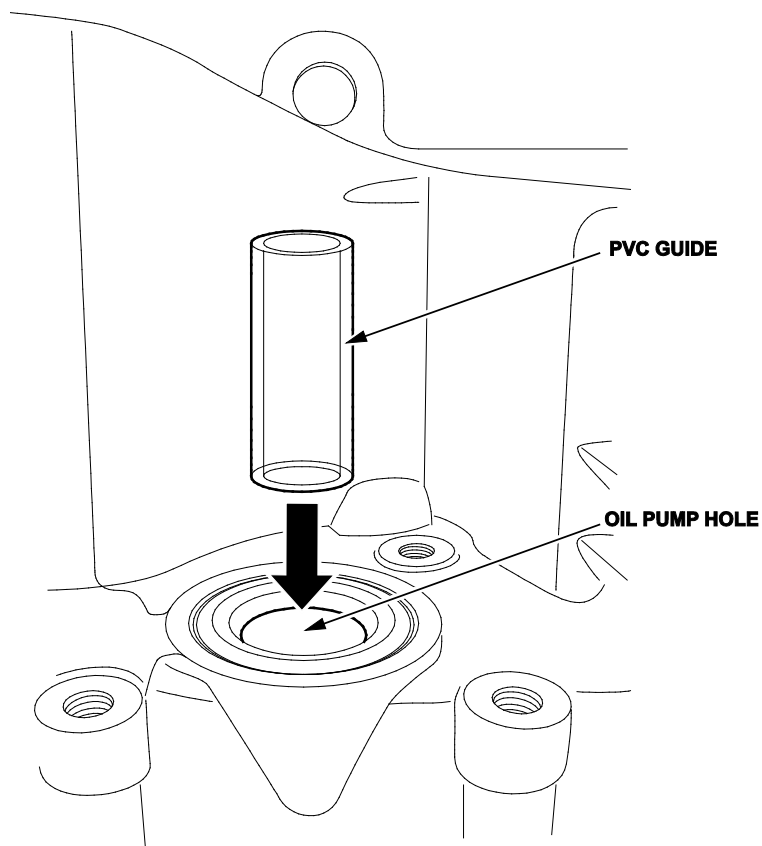
3. Remove the harness clip and the harness bracket.
4. Remove the rear differential pump motor and the O-ring.



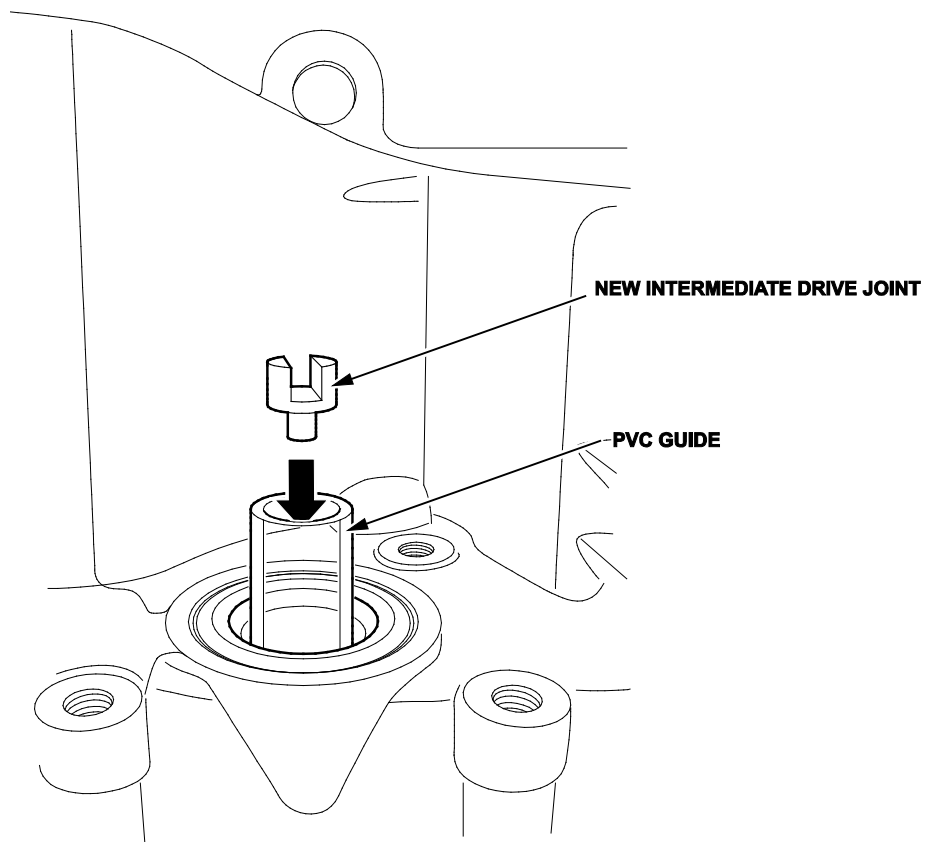
5. Cut a 1 ¾ inch length of the hard wall clear PVC tubing and chamfer the newly cut edges.

NOTE: The tubing will be used as a guide to install the new intermediate oil pump drive joint and prevent it from falling into the differential assembly where it cannot be removed.

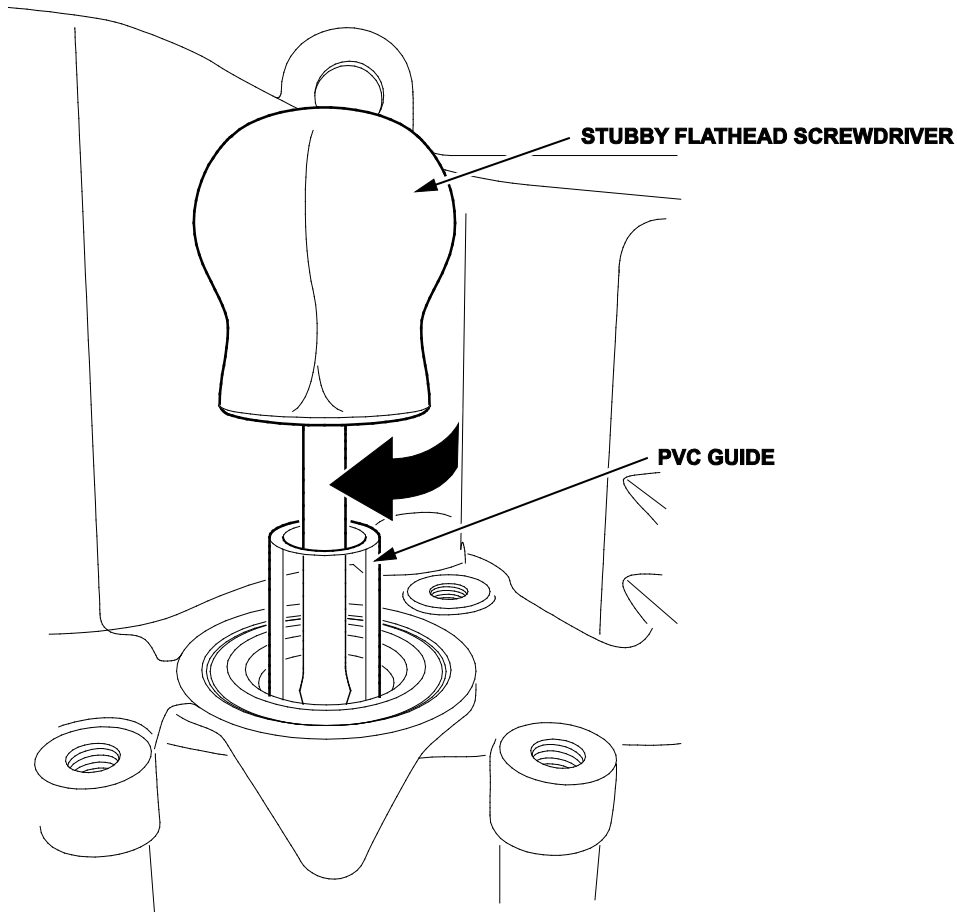
6. Insert the hard wall PVC tube guide you just cut into the oil pump hole and center it over the internal oil pump drive shaft.



7. Insert the new intermediate drive joint into the PVC guide as shown.

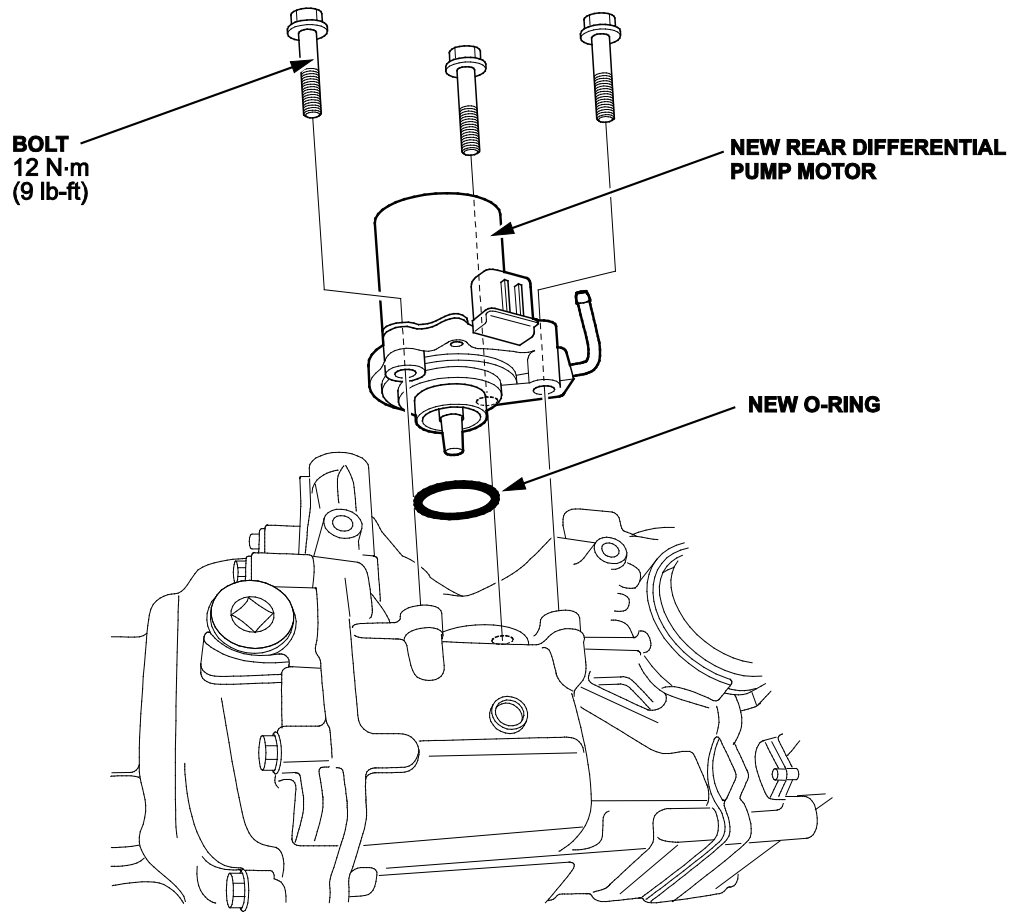


8. With the PVC guide still in place, use a stubby flathead screwdriver to rotate the intermediate drive joint until it fully engages into the internal oil pump drive shaft.

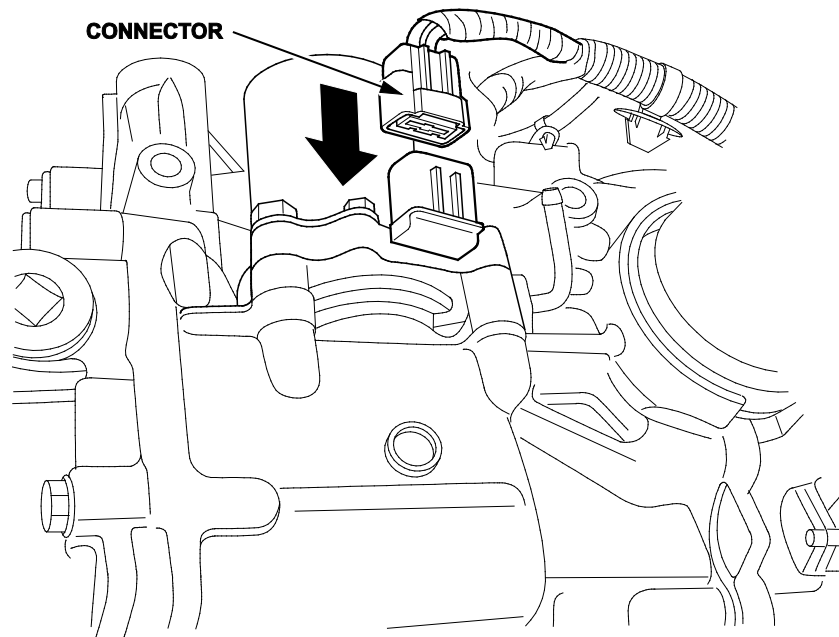


9. Carefully remove the guide from the oil pump hole by slowly pulling it straight out.
NOTE: If the intermediate drive joint pulls out of place, it may fall into an area where it cannot be removed without additional differential disassembly.
10. Use a small telescoping mirror to verify that the new intermediate drive joint is still in place.

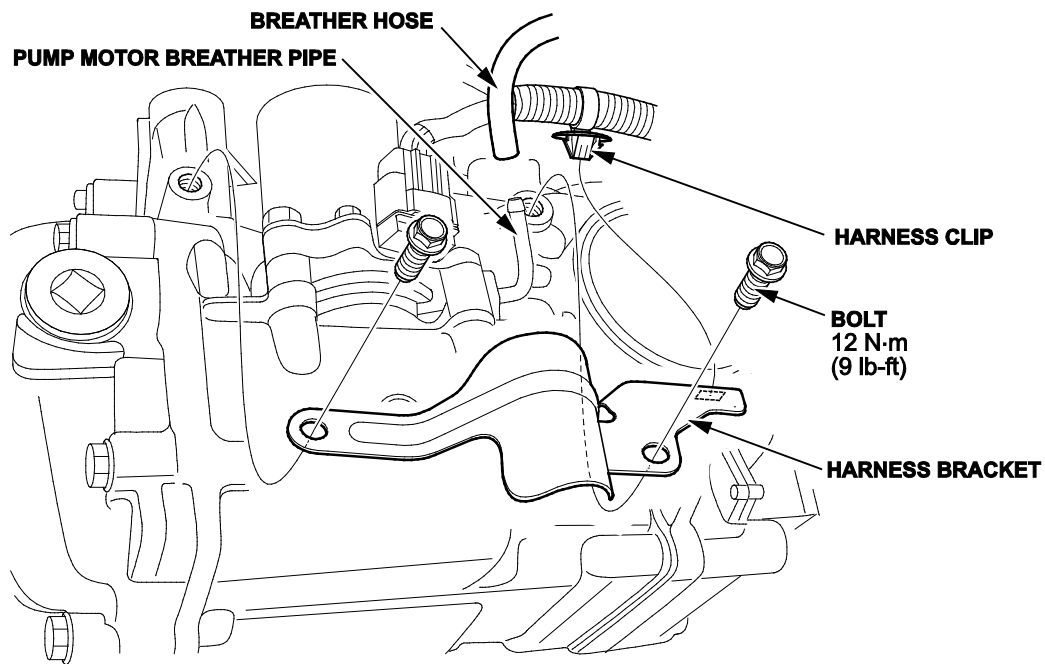
11. Align the pump shaft to the new intermediate drive joint. Then install the new rear differential pump motor with a new O-ring and torque the bolts to **12 N·m (9 lb-ft)**.



12. Connect the connector.



13. Install the harness bracket and torque the bolts to **12 N·m (9 lb-ft)**. Then install the harness clip.



14. Connect the breather hose to the pump motor breather pipe.

END