

PINGING, RATTLING, OR SQUEALING DURING LIGHT ACCELERATION

TECHNICAL SERVICE BULLETIN

Reference Number(s): 07-028, Date of Issue: May 25, 2007

HONDA: See VEHICLES AFFECTED

CATEGORY: Engine

APPLIES TO: See VEHICLES AFFECTED

SYMPTOM

While driving under light acceleration, you hear an intermittent pinging, rattling, or squealing from the engine compartment. The noise can easily be mistaken for an engine ping or spark knock. In some cases, the noise happens only during engine warm up.

PROBABLE CAUSE

The intermediate shaft heat shield is loose in its mounting bushings.

CORRECTIVE ACTION

Replace the intermediate shaft heat shield and, if needed, any specified nuts or gaskets.

VEHICLES AFFECTED

2003-06 Accord V6 A/T 2-door and 4-door: ALL

2007 Accord V6 A/T 2-door:

From VIN 1HGCM82..7A000001 thru 1HGCM82..7A001041

2007 Accord V6 A/T 4-door:

From VIN 1HGCM6...7A000001 thru 1HGCM6...7A023040

2006 Accord V6 M/T 2-door and 4-door: ALL

2007 Accord V6 M/T 2-door:

From VIN 1HMCM81..7A000001 thru 1HGCM81..7A001161

2007 Accord V6 M/T 4-door:

From VIN 1HGCM65..7A000001 thru 1HGCM65..7A024862

2007 Honda Pilot EX

PINGING, RATTLING, OR SQUEALING DURING LIGHT ACCELERATION

2005 Accord Hybrid: ALL

2006 Accord Hybrid:

From VIN JHMCN3...6C000001 thru JHMCN3...6C003948

2005-06 Odyssey: ALL

2007 Odyssey:

From VIN 5FNRL3...7B000001 thru 5FNRL3...7B007592

From VIN 5FNRL3...7B400001 thru 5FNRL3...7B405900

2003-06 Pilot: ALL

2007 Pilot 2WD:

From VIN 5FNYP2...7B000001 thru 5FNYP2...7B006445

2007 Pilot 4WD:

From VIN 5FNYP1...7B000001 thru 5FNYP1...7B002578

2006-07 Ridgeline: ALL

PARTS INFORMATION

Intermediate Shaft Heat Shield:

All except Pilot - P/N 44517-SDB-A00, H/C 7247851

Pilot - P/N 44517-S9V-A00, H/C 8159105

Exhaust Pipe A Front Gasket (2 required): P/N 18212-SA7-003, H/C 1462290

Exhaust Pipe A Rear Gasket: P/N 18393-SDB-A00, H/C 7245194

Self-Locking Nut (9 required): P/N 90212-SA5-003, H/C 1169812

Spindle Nut:

Pilot, Ridgeline only - P/N 90305-S3V-A11, H/C 7196116

WARRANTY CLAIM INFORMATION

many waters gallery

Sunday, October 19, 2008 1:36:47 PM

Page 2

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In warranty: The normal warranty applies.

WARRANTY CLAIM INFORMATION

Operation Number:	2191N6	
Flat Rate Time:	Accord Hybrid	- 1.1 hours
	Accord V6	- 1.1 hours
	Odyssey	- 0.9 hour
	Pilot	- 1.6 hours
	Ridgeline	- 1.6 hours
Failed Part:	P/N 44517-SDB-A00 H/C 7247851	
Defect Code:	07405	
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.

DIAGNOSIS

NOTE: If you're viewing this service bulletin on ISIS and the computer has sound, click on the image below to hear an example of how the noise may sound and see the rpm levels it occurs at.



Fig. 1: View Of Gauges

Courtesy of AMERICAN HONDA MOTOR CO., INC.

1. Drive the vehicle at low speeds (25 mph or less) under light throttle.
 - If you hear a ping, rattle, or squeal, go to step 3.
 - If you don't hear a ping, rattle, or squeal, go to step 2.
2. While driving the vehicle and applying the throttle, lightly press the brake pedal for a short time.
 - If you hear a ping, rattle, or squeal, go to step 3.
 - If you do not hear a ping, rattle, or squeal, this service bulletin does not apply. Ask the customer more questions to determine the cause of the problem and how to repair it.
3. Do the appropriate repair procedure, based on the model:
 - For Accord Hybrid, Accord V6, and Odyssey, go to REPAIR PROCEDURE A: ACCORD

HYBRID, ACCORD V6, ODYSSEY.

- For Pilot and Ridgeline, go to **REPAIR PROCEDURE B: PILOT, RIDGELINE.**

REPAIR PROCEDURE A: ACCORD HYBRID, ACCORD V6, ODYSSEY

1. Raise the vehicle on a lift, and make sure it is securely supported.
2. Remove exhaust pipe A:
 - Remove the three nuts between exhaust pipe A and each warm-up catalytic converter (six nuts total).
 - Disconnect exhaust pipe A from its rubber hanger.
 - Remove the three nuts between exhaust pipe A and the TWC.

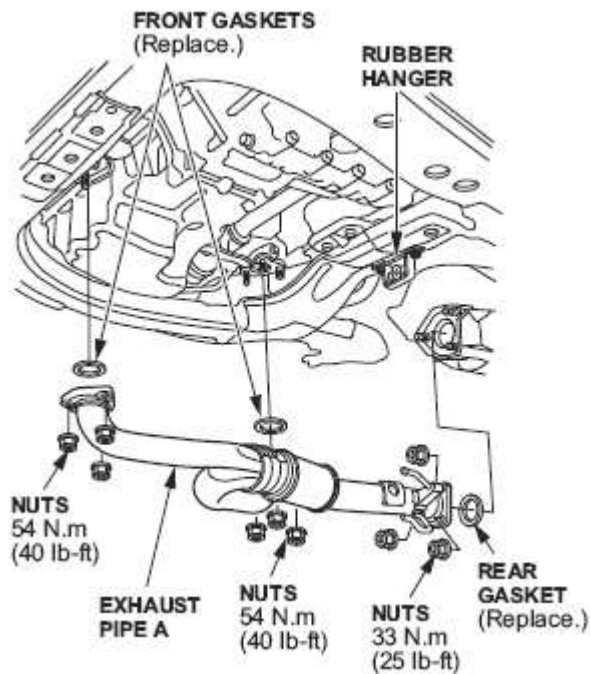


Fig. 2: Identifying Exhaust Pipe Nuts & Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. *Accord Hybrid only* - Remove the steering rack heat shield (two bolts).

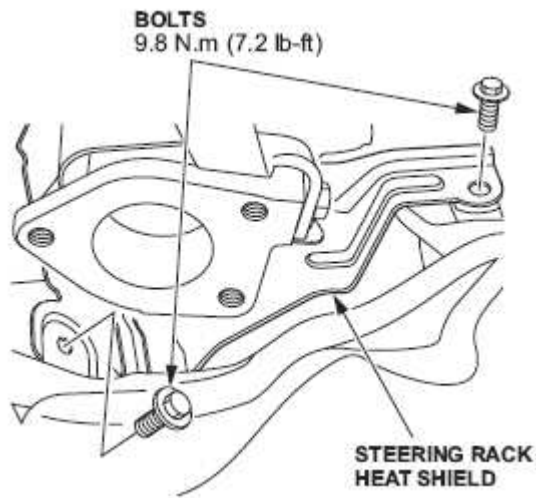


Fig. 3: Identifying Steering Rack Heat Shield With Bolts & Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Remove the exhaust pipe bracket (two bolts).

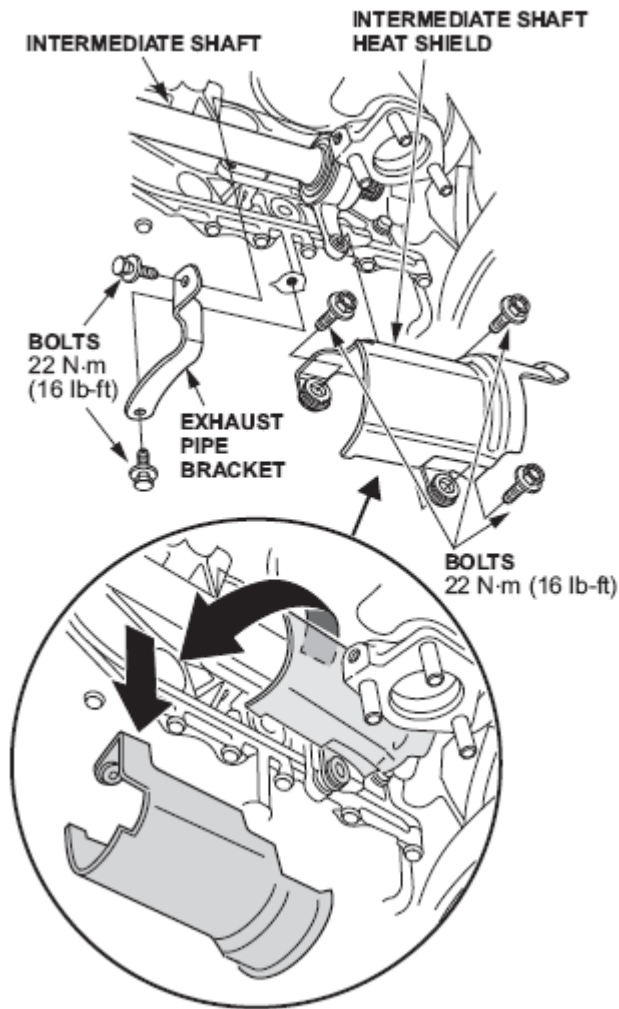


Fig. 4: Identifying Exhaust Pipe Bracket Bolts & Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove the intermediate shaft heat shield (three bolts).
6. Install a new intermediate shaft heat shield with the original bolts. Torque the bolts to **22 N.m (16 lb-ft)**.
7. Reinstall the exhaust pipe bracket, and torque its bolts to **22 N.m (33 lb-ft)**.
8. *Accord Hybrid only* - Reinstall the steering rack heat shield with its original bolts. Torque the bolts to **22 N.m (16 lb-ft)**.
9. Reattach exhaust pipe A to the cylinder heads with two new front gaskets and six new nuts. Torque the nuts to **54 N.m (40 lb-ft)**.
10. Reattach exhaust pipe A to the TWC with a new rear gasket and three new nuts. Torque the nuts to **33 N.m (25 lb-ft)**.
11. Reconnect exhaust pipe A to its rubber hanger.

REPAIR PROCEDURE B: PILOT, RIDGELINE

1. Raise the vehicle on a lift, and make sure it is securely supported.
2. Remove the right front wheel.
3. Unstake the spindle nut, then remove it.

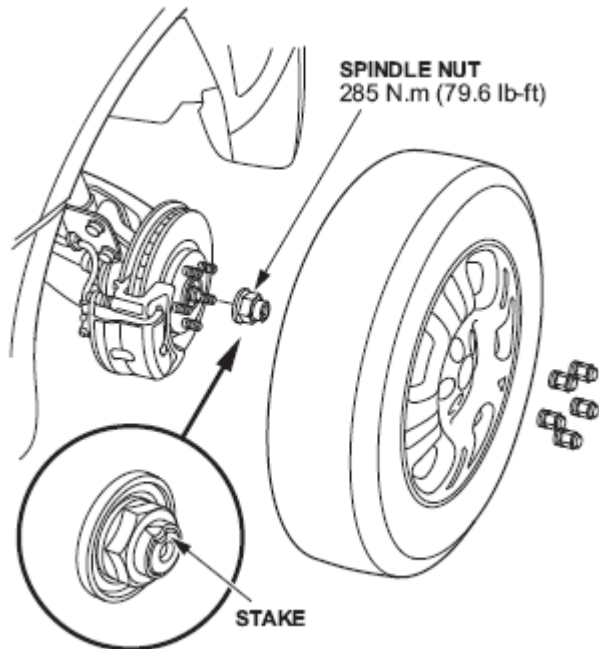


Fig. 5: Identifying Right Front Wheel Spindle Nut & Torque Specifications
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Make a reference mark across each damper bolt and the right damper assembly. This allows you to retain the camber setting when you reinstall the bolts.

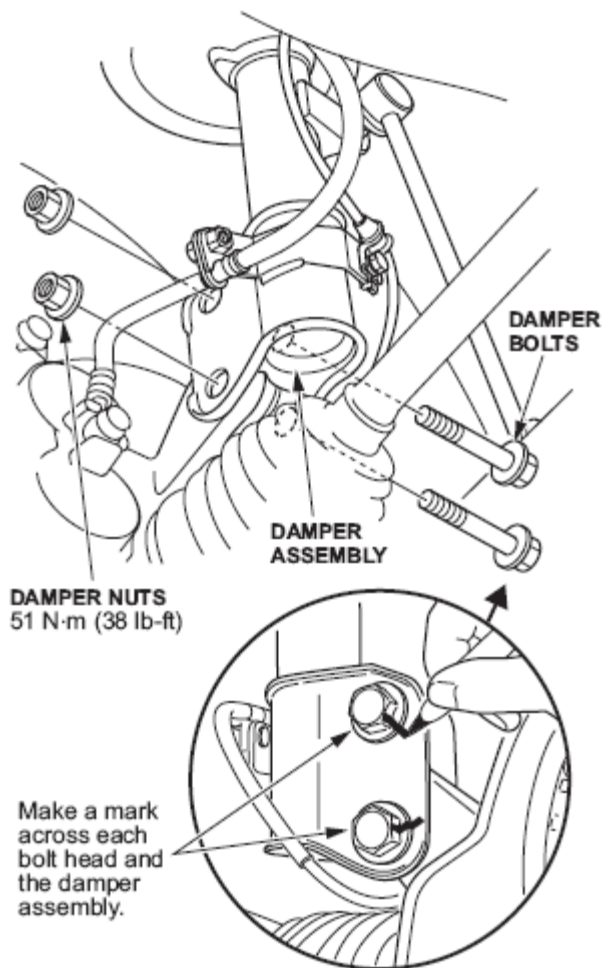


Fig. 6: Identifying Damper Bolts & Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. Remove the damper bolts and nuts from the right damper assembly.

NOTE: You don't need to separate the knuckle from the lower arm.

6. Pull the knuckle outward, separating it from the damper assembly, then release the right driveshaft from the wheel hub by tapping the end of the driveshaft with a plastic hammer.

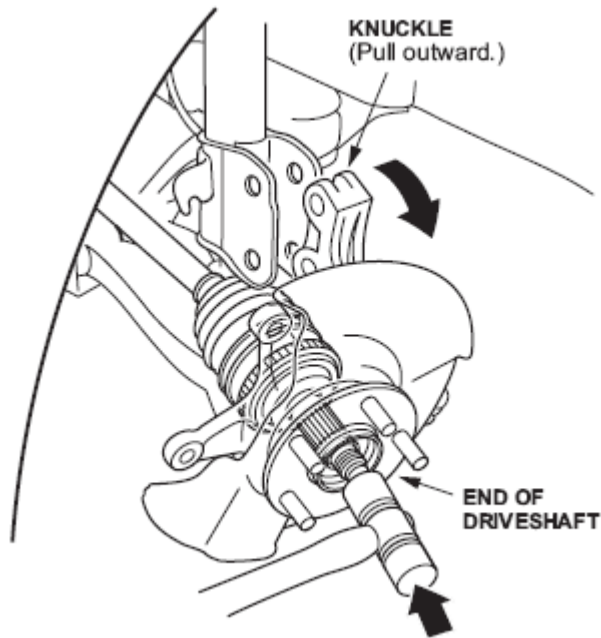


Fig. 7: Tapping Driveshaft
Courtesy of AMERICAN HONDA MOTOR CO., INC.

7. Remove the right driveshaft.
8. Remove exhaust pipe A:
 - Remove the three nuts between exhaust pipe A and each warm-up catalytic converter (six nuts total).
 - Disconnect exhaust pipe A from its rubber hanger.
 - Remove the three nuts between exhaust pipe A and the TWC.

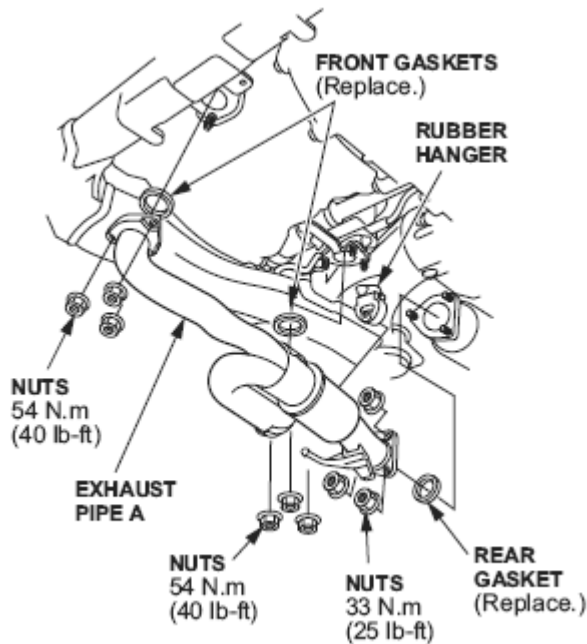


Fig. 8: Identifying Exhaust Pipe Nuts & Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Remove the three bolts from the intermediate shaft heat shield.

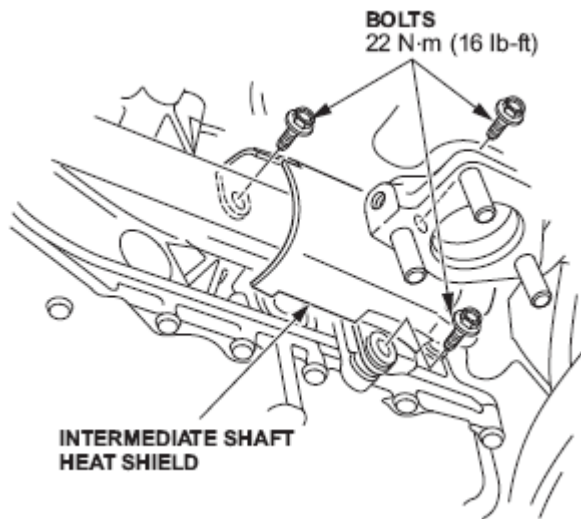


Fig. 9: Identifying Intermediate Shaft Heat Shield Bolts & Torque Specifications
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

- Remove the intermediate shaft bolts (one flange bolt and two dowel bolts).

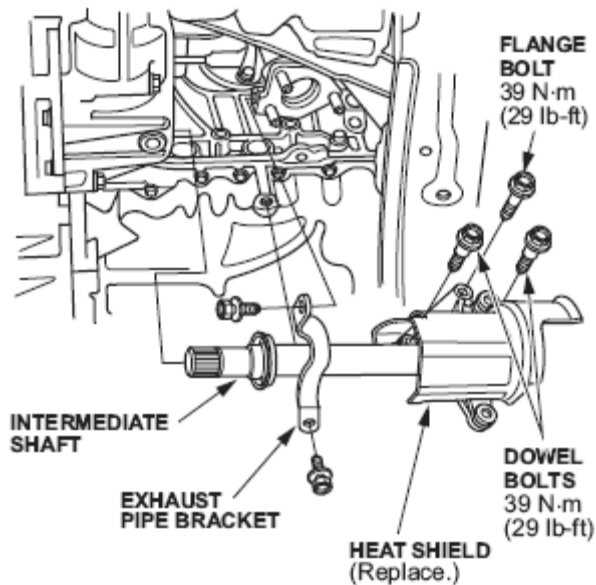


Fig. 10: Identifying Intermediate Shaft Bolts & Torque Specifications

Courtesy of AMERICAN HONDA MOTOR CO., INC.

11. Remove the exhaust pipe bracket (two bolts).
12. With its heat shield attached, carefully slide the intermediate shaft out of the differential.
13. Remove the heat shield from the intermediate shaft, and place a new one on the shaft.
14. Carefully slide the end of the intermediate shaft back into the differential, making sure not to damage the differential oil seal.
15. Reinstall the exhaust pipe bracket, and torque its bolts to **22 N·m (33 lb-ft)** .
16. Reinstall the intermediate shaft bolts, and torque them to **39 N·m (29 lb-ft)** .
17. Reinstall the intermediate shaft heat shield bolts, and torque them to **22 N·m (16 lb-ft)** .
18. Reattach exhaust pipe A to the cylinder heads with two new front gaskets and six new nuts. Torque the nuts to **54 N·m (40 lb-ft)** .
19. Reattach exhaust pipe A to the TWC with a new rear gasket and three new nuts. Torque the nuts to **33 N·m (25 lb-ft)** .
20. Reconnect exhaust pipe A to its rubber hanger.
21. Slide the inboard end of the driveshaft into the intermediate shaft until the driveshaft set ring locks in place. Slide the outboard end of the driveshaft into the wheel hub.
22. Reattach the knuckle to the damper assembly, then reinstall the damper bolts and nuts. Make sure the reference marks on the bolts and the damper line up. Torque the damper nuts to **157 N·m (116 lb-ft)** .
23. Apply a small amount of engine oil to the seating surface of a new spindle nut.
24. Install the new spindle nut, and torque it to **285 N·m (210 lb-ft)** . After torquing the nut, stake its shoulder to the end of the driveshaft with a drift.
25. Clean the mating surface of the brake disc and the right front wheel, then reinstall the wheel. Torque the wheel nuts to **108 N·m (80 lb-ft)** .
26. Turn the right front wheel by hand while checking for interference between the driveshaft and any parts.

2007 Honda Pilot EX

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If you find interference, recheck your work.