

November 19, 2004

Dear Service Manager:

Honda Motor Co., LTD has announced a safety recall campaign for certain 2005 Odysseys.

Some rear wheel speed sensors may not be installed correctly, which causes the sensor to report an incorrect wheel speed to the ABS control unit. The on-board diagnostic system quickly identifies this error under most normal driving conditions, activates numerous indicators on the instrument panel, and disables the ABS. Brake application below the ABS threshold, or after ABS is disabled, is not affected. However, if brake application exceeding the ABS threshold occurs before the malfunction is detected, the ABS control unit may reduce brake force to all wheels. An unexpected loss of brake force can cause a crash.

#### **Customer Notification**

Notifications were mailed to all owners on November 12.

#### **Affected Vehicles**

For the affected VINs, refer to Service Bulletin 04-067, *Safety Recall: Rear Wheel Speed Sensors*. Not all vehicles within the VIN range are affected by this recall. Before beginning work on a vehicle, verify its eligibility by checking at least one of these items:

- The customer has a notification letter.
- The vehicle is shown on your campaign responsibility report.
- The vehicle is shown as eligible on an iN VIN status inquiry.

Some vehicles affected by this recall are in your new vehicle inventory. **According to federal law, these vehicles cannot be sold or leased until they are repaired.** To see if a vehicle is affected by this recall, do a VIN status inquiry before selling it.

#### **Repair Strategy**

The repair is to inspect the rear wheel speed sensors and, if any are incorrectly installed, reinstall them. If any sensor bolts are cross-threaded, the sensor and the rear knuckle must be replaced. For inspection, repair, and warranty information, refer to S/B 04-067.

#### **Parts Information**

Parts are available through the controlled parts ordering system. There are no open orders.

Sincerely,

**American Honda Motor Co., Inc.  
Honda Automobile Division**



Applies To: **2005 Odyssey** – From VIN 5FNRL38...B000192 thru 5FNRL38...B019361

**November 19, 2004**

### Safety Recall: Rear Wheel Speed Sensors

(Supersedes preliminary service bulletin 04-067, dated November 5, 2004)

#### BACKGROUND

Some rear wheel speed sensors may not be installed correctly, causing the sensor to signal an incorrect wheel speed to the ABS modulator/control unit. Under most normal driving conditions, on-board diagnostics would quickly identify this error, activate numerous warning indicators, and disable the ABS. Brake application below the ABS threshold, or after the ABS is disabled, is not affected. However, if brake application exceeding the ABS threshold occurs before the malfunction is detected, the ABS modulator/control unit may reduce the braking force to all wheels. An unexpected loss of brake force could cause a crash.

#### CUSTOMER NOTIFICATION

All owners of affected vehicles will be mailed a notification of this recall. An example of the customer notification is at the end of this service bulletin.

Only 2,400 vehicles within the VIN range may be affected. **Before beginning work, verify that the vehicle is eligible by checking at least one of these items:**

- The vehicle is shown on your campaign responsibility report.
- The vehicle is shown as eligible on an iN VIN status inquiry.

In addition to these verification items, check for a punch mark above the first character of the engine compartment VIN. A punch mark in that location means this safety recall campaign has already been completed.

Some vehicles affected by this recall are in your new vehicle inventory. **According to Federal law, these vehicles cannot be sold or leased until they are repaired.** To see if a vehicle is affected by this recall, do a VIN status inquiry before selling it.

#### CORRECTIVE ACTION

Inspect the rear wheel speed sensors. If either sensor is incorrectly installed, reinstall it, and do a test-drive with the HDS. If the mounting bolt of either sensor is cross-threaded in its rear knuckle, replace the sensor and the knuckle, check the rear wheel alignment, and do a test-drive with the HDS.

#### PARTS INFORMATION

- Left Rear Wheel Sensor Assembly:  
P/N 57475-SHJ-A01, H/C 7711732
- Right Rear Wheel Sensor Assembly:  
P/N 57470-SHJ-A01, H/C 7711724
- Left Rear Knuckle:  
P/N 52215-SHJ-A00, H/C 7711120
- Right Rear Knuckle:  
P/N 52210-SHJ-A00, H/C 7711112
- 12 mm Nut (six per side):  
P/N 90215-SHJ-A00, H/C 7734437
- 12 mm Castle Nut (one per side):  
P/N 90363-SHJ-A01, H/C 7734502
- Flange Bolt (one per side):  
P/N 90170-SHJ-A00, H/C 7734379
- Flange Bolt (one per side):  
P/N 95701-06014-05, H/C 3636792
- Washer (one per side):  
P/N 52363-SHJ-A00, H/C 7711161
- O-Ring (one per side):  
P/N 91352-SHJ-A51, H/C 7734593

#### WARRANTY CLAIM INFORMATION

OP#	Description	FRT
413504	Inspect rear wheel speed sensors	0.2
413012	Inspect rear wheel speed sensors; reinstall one sensor; test-drive with HDS	0.6
413013	Inspect rear wheel speed sensors; reinstall both sensors; test-drive with HDS	0.8
4131N7	Inspect rear wheel speed sensors; replace one sensor; replace one rear knuckle; check rear wheel alignment; test-drive with HDS	1.9
4131N8	Inspect rear wheel speed sensors; replace both sensors; replace both rear knuckles; check rear wheel alignment; test-drive with HDS	2.5

- Failed Part: P/N 57470-SFE-J01  
H/C 7974223
- Defect Code: 5DK00
- Symptom Code: P5200
- Skill Level: Repair Technician

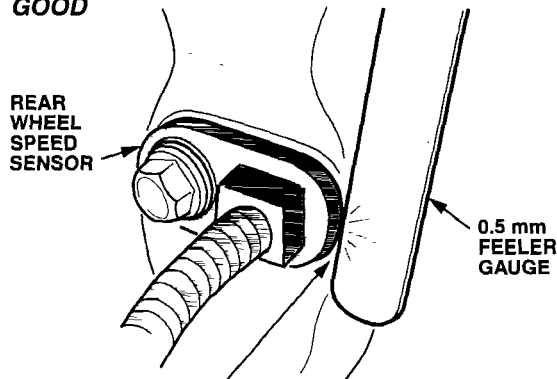


**CUSTOMER INFORMATION:** The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this 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.

## INSPECTION PROCEDURE

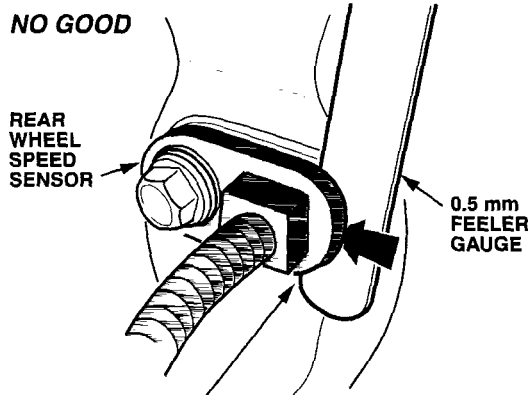
1. Raise the vehicle on a hoist, and remove the rear wheels.
2. Check the installation of each rear wheel speed sensor by trying to insert a 0.5 mm (0.020-inch) feeler gauge between the base of the sensor and the rear knuckle, on the opposite side of the sensor bolt.
  - If you cannot insert the feeler gauge between either sensor and its rear knuckle, go to step 3.
  - If you can insert the feeler gauge between one or both sensors and their rear knuckles, go to **REPAIR PROCEDURE**.

### GOOD



Feeler gauge *cannot* be inserted between sensor and rear knuckle.

### NO GOOD



Feeler gauge *can* be inserted between sensor and rear knuckle.

3. Reinstall the rear wheels, and torque the wheel nuts to 94 lb-ft (127 N·m).
4. Center-punch a completion mark above the first character of the engine compartment VIN.

Center-punch here.

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## REPAIR PROCEDURE

1. Unbolt the sensor from the rear knuckle, and check for cross-threading on the sensor mounting bolt.
  - If the bolt is OK, go to step 2.
  - If the bolt is cross-threaded, go to step 3.
2. Reinstall the sensor, and make sure it is flush to the rear knuckle (see step 2 of **INSPECTION PROCEDURE**). Torque the sensor mounting bolt to 7.2 lb-ft (9.8 N·m), then go to step 5.
3. Replace the rear knuckle(s):
  - Refer to pages 18-28 thru 18-30 of the 2005 Odyssey Service Manual.
  - Enter keyword **REAR KNUCKLE**, and select **Rear Knuckle/Hub Bearing Unit Replacement** from the list.
4. Replace the rear wheel speed sensor(s), and check your installation (see step 2 of **INSPECTION PROCEDURE**):
  - Refer to page 19-91 of the 2005 Odyssey Service Manual.
  - Enter keyword **VSA SENSOR**, and select **VSA Wheel Sensor Replacement** from the list.
5. Reinstall the rear wheels, and torque the wheel nuts to 94 lb-ft (127 N·m).
6. Check the rear wheel alignment.
7. Connect the HDS to the vehicle's data link connector (DLC). Make sure the HDS cable does not interfere with the accelerator and brake pedals. Go into the ABS Data List on the HDS.
8. Drive the vehicle at about 10 to 20 mph, and watch the wheel speed sensor (WHEEL SPD) readings:
  - If all four readings are about the same, the sensors are OK. Go to step 9.
  - If one reading is higher than the other three, there is still a problem with one of the sensors. Go back to **INSPECTION PROCEDURE**.
9. Center-punch a completion mark above the first character of the engine compartment VIN.

Center-punch here.

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November 2004

### Safety Recall: Anti-Lock Brake System

Dear Odyssey Owner:

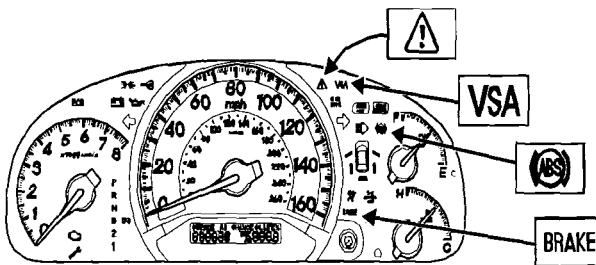
This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

#### What is the reason for this notice?

Honda Motor Co., Ltd., has decided that a defect relating to motor vehicle safety exists in the anti-lock brake system (ABS) of certain 2005 model year Odysseys. The ABS uses a sensor on each wheel to detect wheel speed. Some sensors on the rear wheels were improperly installed, which means the sensor may report the wrong wheel speed to the ABS control unit. As a result, it is possible in a panic-braking situation (ABS functioning) for the control unit to trigger a loss of brakes. An unexpected loss of brakes can cause a crash. Normal braking (non-ABS) is not affected.

Your vehicle has an on-board diagnostic system that will quickly identify the wheel speed error under most driving conditions and, on some vehicles, cause several indicators on the instrument panel to come on (see illustration). When the indicators are on, ABS is disabled to temporarily eliminate the problem. If you activate the ABS before the warning indicators come on, brake loss could occur.

If the BRAKE, ABS, and VSA indicators come on, it means your vehicle has an improperly installed wheel sensor, and you should contact your dealer immediately. When these indicators are on, the brakes still work, but without the anti-lock function. The vehicle stability assist (VSA) system will also shut off. Please refer to your owner's manual for more information (pages 300-301).



#### What should you do?

Call any authorized Honda dealer and make an appointment to have your vehicle inspected. The dealer will inspect the rear wheel speed sensors for proper installation. If either sensor is improperly installed, the dealer will replace all needed parts. The inspection and any repairs will be done free of charge. Please plan to leave your vehicle for at least half a day to allow the dealer flexibility in scheduling.

#### Who to contact if you experience problems.

If you are not satisfied with the service you receive from your Honda dealer, you may write to:

American Honda Motor Co., Inc.  
Honda Automobile Customer Service  
Mail Stop 500-2N-7A  
1919 Torrance Blvd.  
Torrance, CA 90501-2746

If you believe that American Honda or the dealer has failed or is unable to remedy the defect in your vehicle, without charge, within a reasonable period of time (60 days from the date you first contact the dealer for a repair appointment), you may submit a complaint to:

Administrator  
National Highway Traffic Safety Administration  
400 Seventh St., SW  
Washington, DC 20590

Or call the toll-free Auto Safety Hotline at (888) 327-4236.

#### What to do if you feel this notice is in error.

Our records show that you are the current owner or lessee of a 2005 Odyssey involved in this campaign. If this is not the case, or the name/address information is not correct, please fill out and return the enclosed, postage-paid *Information Change Card*. We will then update our records.

#### Lesser Information.

Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within 10 days.

#### If you have questions.

If you have any questions about this notice, or need assistance with contacting a Honda dealer, please call Honda Automobile Customer Service at (800) 999-1009, and select menu option #2.

We apologize for any inconvenience this campaign may cause you.

Sincerely,

**American Honda Motor Co., Inc.**  
**Honda Automobile Division**