

# DAIMLERCHRYSLER

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OFFICE OF DEFECTS  
INVESTIGATION

DaimlerChrysler Corporation

Stephan J. Speth

Director

Vehicle Compliance & Safety Affairs

March 16, 2004

Mr. Kenneth N. Weinstein  
Associate Administrator, Safety Assurance  
National Highway Traffic Safety Administration  
400 Seventh Street, S.W.  
Washington, D.C. 20590

Dear Mr. Weinstein:

Reference: NHTSA Identification Number 04V-112

Enclosed are representative copies of communications relating to the 2004 model year vehicles involved in the referenced recall. DaimlerChrysler expects to begin owner notification during the week of March 29, 2004. The exact number of manufactured vehicles in the recall is 15,543.

The involved Vehicle Identification Number range is:

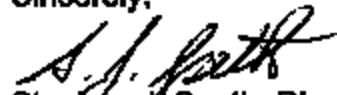
<u>Low</u>	<u>High</u>
4C273334	4C364203

(VIN last eight characters) - 4 = 2004 model year; C = Jefferson North Assembly Plant, Detroit, Michigan; and the last six digits = sequential number.

**We caution that the above range represents only the lowest and highest VIN sequential numbers included in the recall. This range cannot be used to determine conclusively that a vehicle is involved in the recall because most vehicles with a VIN within the range are not affected by the recall.**

This completes DaimlerChrysler's package of information for this recall as required by the Defects Report Regulation.

Sincerely,



Stephan J. Speth, Director  
Vehicle Compliance and Safety Affairs

Enclosure: Recall #D13

cc: K. C. DeMeter

March 2004

Dealer Service Instructions for:

## **Safety Recall No. D13**

### **Crankshaft Position Sensor**

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#### **Models**

**2004 (WJ) Jeep® Grand Cherokee**

*NOTE: This recall applies only to the above vehicles equipped with a 4.0L engine built from December 16, 2003 through February 6, 2004 (MDH 121606 through 020622).*

*IMPORTANT: Many of the vehicles within the above build period have already been repaired and, therefore, have been excluded from this recall.*

**IMPORTANT:** Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to stop sale and complete this recall service on these vehicles before retail delivery. Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

#### **Subject**

The crankshaft position sensor wiring insulation on about 15,500 of the above vehicles may crack and expose the wires to moisture. Moisture on these wires can cause the engine to stall and result in a crash without warning.

#### **Repair**

The crankshaft position sensor must be replaced.

**Parts Information**

<u>Part Number</u>	<u>Description</u>
CBB0D130	Sensor, Crankshaft Position

Each dealer to whom vehicles in the recall were invoiced will receive enough crankshaft position sensors to service about 10% of those vehicles.

**Service Procedure**

1. Open the hood
2. Disconnect the negative battery cable.
3. Disconnect the wiring harness on the crankshaft position sensor from the engine wiring harness.

**NOTE:** The crankshaft position sensor connector is located on the passenger side of the engine compartment next to the transmission dipstick tube.

4. Remove the crankshaft position sensor connector and retaining clip from the retaining bracket.
5. Raise the vehicle on an appropriate hoist.
6. Place a transmission jack under the transmission crossmember.

<b>Service Procedure (Continued)</b>
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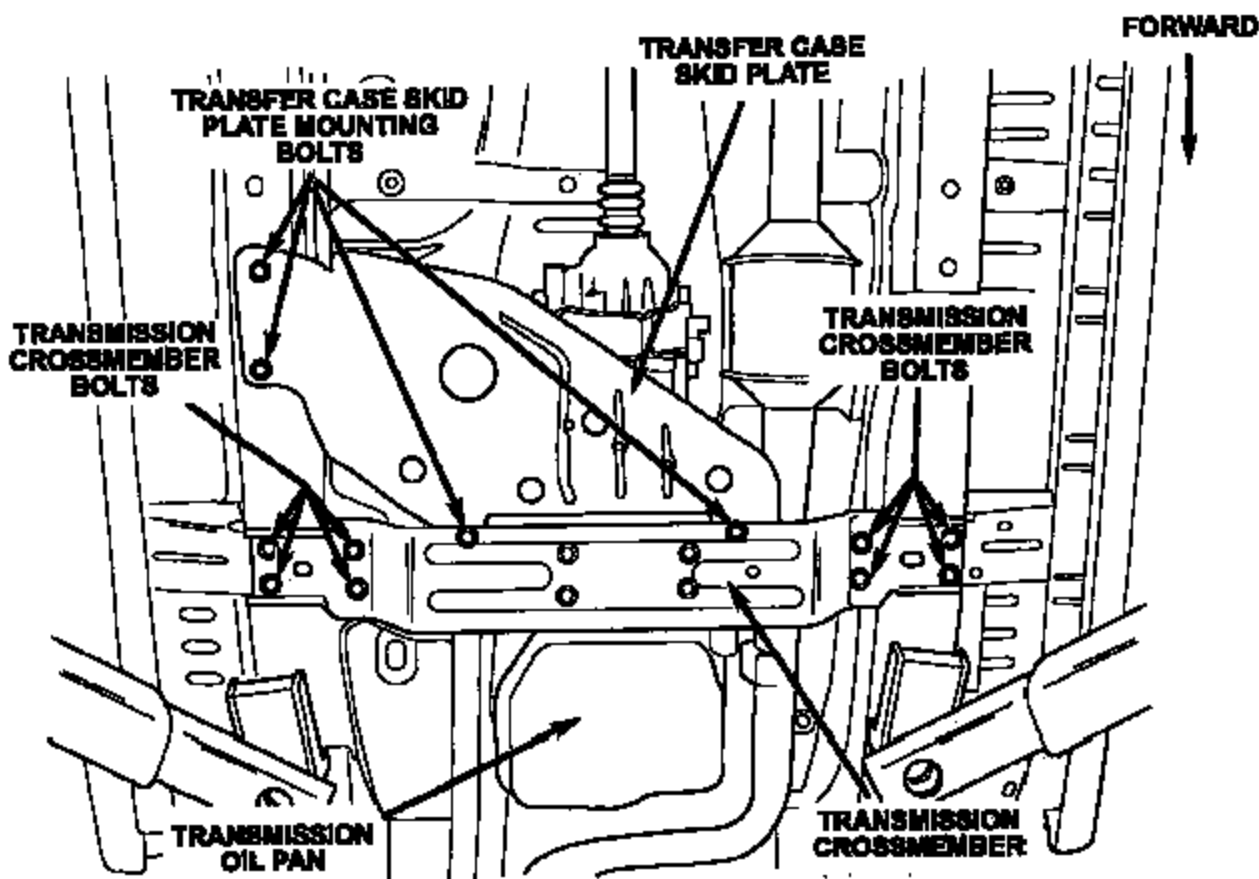


Figure 1

7. If equipped, remove the transfer case skid plate (Figure 1).

8. Remove the eight (8) transmission crossmember bolts (Figure 1).

9. Using the transmission jack, lower the rear of the transmission approximately three (3) inches.

10. Using a 7/16" (11mm) swivel socket and a 36" long 3/8" drive extension, remove the crankshaft position sensor mounting bolt and wiring shield from the transmission bellhousing (Figure 2).

11. Remove and discard the old crankshaft position sensor.

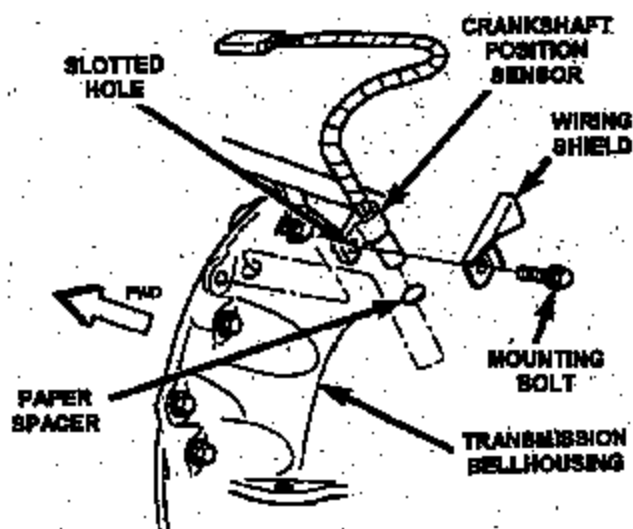


Figure 2

<b>Service Procedure (Continued)</b>
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12. Verify that the paper spacer is on the end of the new crankshaft position sensor (Figure 3).
13. Using electrical tape, tape the wiring shield to the sensor wiring conduit to hold the shield in position during sensor installation (Figure 4).

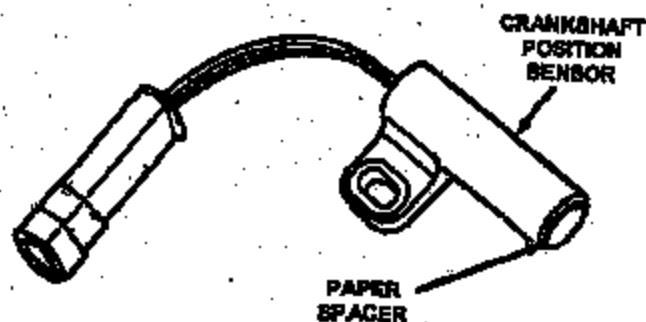


Figure 3

14. Position the new crankshaft position sensor into the transmission bellhousing and install the wiring shield and sensor mounting bolt finger tight (Figure 2).
15. Gently push the crankshaft position sensor until the paper spacer contacts the outer edge of the flywheel.
16. While gently pushing the crankshaft position sensor against the flywheel, tighten the sensor mounting bolt to 60 in. lbs. (7 N·m).

**NOTE:** The paper spacer is glued to the bottom of the crankshaft position sensor to correctly position the sensor from the flywheel. After the engine has been started the temporary paper spacer will be sheared off.

17. Route the crankshaft position sensor wiring along the top of the bellhousing.

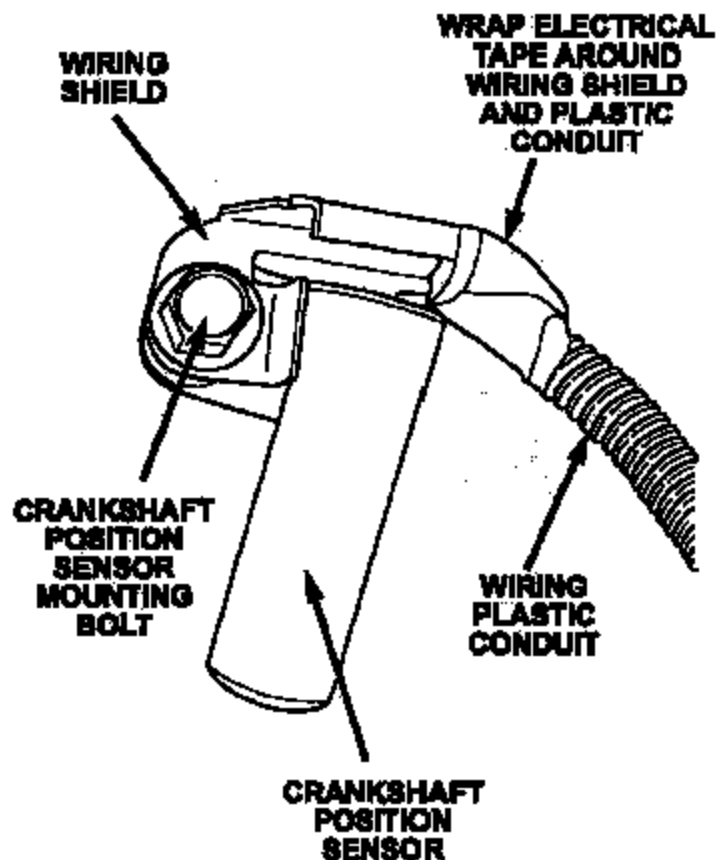


Figure 4

**Service Procedure (Continued)**

18. Using the transmission jack, raise the transmission back into position and install the transmission crossmember bolts. Tighten the crossmember bolts to 30 ft. lbs. (41 N·m) (Figure 1).
19. Remove the transmission jack from under the vehicle.
20. If equipped, install the transfer case skid plate. Tighten the bolts to 30 ft. lbs. (41 N·m) (Figure 1).
21. Lower the vehicle from the hoist.
22. Connect the crankshaft position sensor wiring pigtail to the engine wiring harness.
23. Install the crankshaft position sensor connector retaining clip to the retaining bracket.
24. Connect the negative battery cable.

**Completion Reporting and Reimbursement**

Claims for vehicles that have been serviced must be submitted on the DIAL System or on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims submitted will be used by DaimlerChrysler to record recall service completions and provide dealer payments.

Use the following labor operation number and time allowance:

	<b>Labor Operation Number</b>	<b>Time Allowance</b>
Replace the crankshaft position sensor	08-D1-31-82	0.7 hours

Add the cost of the recall part plus applicable dealer allowance to your claim.

**NOTE:** See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

**Parts Return**

Not required.

**Dealer Notification and Vehicle List**

All dealers will receive a copy of this dealer recall notification letter by DMAIL and by first class mail. Two additional copies will be sent through the DCMMS. DealerCONNECT will be updated to include this recall in the near future.

**Vehicle Lists, Global Recall System, VIP and Dealer Follow Up**

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed. Involved dealers were also mailed a copy of their vehicle (VIN) list with the dealer recall notification letter.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the "Service" tab and then click on "Global Recall System." Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

**Dealers must perform this repair on all unsold vehicles before retail delivery.** Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

*Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.*

**Owner Notification and Service Scheduling**

All involved vehicle owners known to DaimlerChrysler are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A copy of the owner letter is attached.

Enclosed with each owner letter is an Owner Notification Form. The involved vehicle and recall are identified on the form for owner or dealer reference as needed.

**Additional Information**

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services Field Operations  
DaimlerChrysler Corporation



# DAIMLERCHRYSLER

## **SAFETY RECALL – CRANKSHAFT POSITION SENSOR**

Dear Grand Cherokee Owner:

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

DaimlerChrysler Corporation has decided that a defect, which relates to motor vehicle safety, exists in some 2004 model year Jeep® Grand Cherokee vehicles equipped with a 4.0L engine.

***The problem is...***

**The crankshaft position sensor wiring insulation on your vehicle (identified on the enclosed form) may crack and expose the wires to moisture. Moisture on these wires can cause the engine to stall and result in a crash without warning.**

***What DaimlerChrysler and your dealer will do...***

**DaimlerChrysler will repair your vehicle free of charge (parts and labor). To do this, your dealer will replace your vehicle's crankshaft position sensor. The work will take about an hour to complete. However, additional time may be necessary depending on how dealer appointments are scheduled and processed.**

***What you must do to ensure your safety...***

- **Simply contact your dealer right away to schedule a service appointment. Ask the dealer to hold the part for your vehicle or to order it before your appointment.**
- **Bring the enclosed form with you to your dealer. It identifies the required service to the dealer.**

***If you need help...***

**If you have questions or concerns which your dealer is unable to resolve, please contact DaimlerChrysler at 1-800-853-1403.**

If you have already experienced a crankshaft position sensor failure and have paid to have it repaired, you may send your original receipts and/or other adequate proof of payment to the following address for reimbursement: DaimlerChrysler, P.O. Box 610207, Port Huron, MI 48061-0207, Attention: Reimbursement.

If your dealer fails or is unable to remedy this defect without charge and within a reasonable time, you may submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, DC 20590, or call the toll-free Auto Safety Hotline at 1-888-327-4236.

We're sorry for any inconvenience, but we are sincerely concerned about your safety. Thank you for your attention to this important matter.

Customer Services Field Operations  
DaimlerChrysler Corporation  
D13

***Buckle up  
for Safety***