

DAIMLER



Daimler Trucks North America
Nasser Zamani
Senior Manager
Compliance and Regulatory Affairs

December 16, 2008

Dan Smith
Associate Administrator for Vehicle Safety
National Highway Traffic Safety Administration
1200 New Jersey Avenue S.E.
Washington D.C. 20590

**Re: Defect Information Report – Supplemental Report No. 7
07V-343, FL-509, ZF 8018 Steering Gear Spacer, Phase 3**

Mr. Smith

In accordance with Part 573 of Title 49 of the Code of Federal Regulations, Daimler Trucks North America LLC herewith submits supplemental defect information and copies of documents distributed to dealers and purchasers.

- (c)(3) Total number of vehicles potentially affected: 2,677**
- (c) (8)(ii) Communications sent to dealers:** posted December 6, 2008
Communications sent to owners: mailed December 12, 2008
- (c) (10) Copies of Communications sent to owners and dealers are attached.**

Please contact me if you have any questions.

Sincerely yours,

Nasser Zamani

Cc: Michael Mason, CAL-OSHA
Enclosure
Certified Mail# 7004 2890 0004 1202 1529

A Daimler Company

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December 2008
FL509A-C
NHTSA #07V-343
SECOND REVISED NOTICE

Subject: ZF Lenksysteme 8018 Steering Gears

Models Affected: Specific Freightliner Custom Chassis VCL, XB, and XC motorhome chassis manufactured between June 13, 2002, and June 13, 2007, with certain independent front suspension assemblies with ZF Lenksysteme 8018 steering gears.

General Information

Daimler Trucks North America LLC, on behalf of its wholly owned subsidiary, Freightliner Custom Chassis Corporation, has decided that a defect that relates to motor vehicle safety exists on the vehicles mentioned above.

There are approximately 6,000 vehicles involved in this campaign.

Certain ZF Lenksysteme model 8018 steering gears may have been assembled with the incorrect recirculating ball spacer; this may allow the recirculating balls to escape their circuit. If this happens, the operator may notice that higher steering wheel inputs are required or the need for more steering wheel adjustments while driving in a straight line in combination with metallic cracking noises prior to a loss of steering. A loss of steering may result in a possible vehicle crash.

Steering gears will be inspected for certain manufacturing date codes and mileage at the time of inspection. Gears assembled during the affected periods and in a certain mileage range will be replaced.

NOTE: All phases of FL509 are now active – FL509A (1,500 vehicles), FL509B (2,000 vehicles), and FL509C (2,800 vehicles). Please perform the recall when ServicePro shows it is open for the specific vehicle.

REVISION: FL509C has now been activated. FL509B and C include the additional mileage inspection step. The FL509A inspection is unchanged and is of the date code only.

Additional Repairs

Dealers must complete all outstanding recall and field service campaigns prior to the sale or delivery of a vehicle. A Dealer will be liable for any progressive damage that results from its failure to complete campaigns before sale or delivery of a vehicle.

Owners may be liable for any progressive damage that results from its failure to complete campaigns within a reasonable time after receiving notification.

Work Instructions

Please refer to the attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR260).

Replacement Parts

Replacement kits are now available and can be obtained by ordering the kit number(s) listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicles involved in campaign number FL509A-C, a list of the customers and vehicle identification numbers will be available on AccessFreightliner.com. Please refer to this list when ordering parts for this recall.

Recall Campaign

Daimler Trucks
North America LLC

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Table 1 - Replacement Parts for FL509

| Campaign Number | Kit Number | Part Description | Part Number | Qty. per Kit | Suggested Wholesale* |
|-----------------|--------------|---------------------------------------|--------------|--------------|-------------------------------|
| FL509A-C | 25-FL509-000 | Steering Gear and Pitman Arm Assembly | 8018 974 103 | 1 ea | \$841.02 U.S. \$841.02 CAN |
| | | Completion Sticker | WAR260 | 1 ea | |

* Please charge all Direct Warranty Customers the above-listed price for the kit, as they are authorized to perform their own Recalls.

Table 1

Removed Parts

Please follow Warranty Failed Parts Tracking shipping instructions for the disposition of all removed parts.

Labor Allowance

Table 2 - Labor Allowance

| Campaign Number | Procedure | Time Allowed (hours) | SRT Code | Damage Code |
|-----------------|---|----------------------|-----------|---------------|
| FL509A-C | Inspect steering gear date code (includes mileage inspection for FL509B and FL509C) | 0.2 | 996-0738A | 000-Inspected |
| | Inspect steering gear and replace steering gear/pitman arm assembly | 4.5 | 996-0738B | 000-Modifiedx |

Table 2

IMPORTANT: When the recall has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the red completion sticker provided in the recall kit (Form WAR260). If the vehicle does not have a base completion label, clean a spot on the appropriate location of the vehicle and first attach the base completion label (Form WAR259). If a recall kit is not required or there is no completion sticker in the kit, write the recall number on a blank sticker and attach it to the base completion label.

Claims for Credit

You will be reimbursed for your parts, labor, and handling by submitting your claim through the Warranty system within 30 days of completing this campaign. Please reference the following information in QuickClaim®:

- Claim type is **Recall**.
- In the FTL Authorization field, enter the campaign number and appropriate condition code (e.g. **FL509A, FL509B, etc.**).
- In the Primary Failed Part Number field, enter **25-FL509-000**.
- In the Parts field, enter the appropriate kit number(s) as shown in the Replacement Parts Table.
- In the Labor field, first enter the appropriate SRT from the Labor Allowance Table. For administrative time, enter SRT 939-0010A for 0.4 hours for RVs.
- For **FL509B** and **FL509C**, note the vehicle's mileage in the claim comments.
- All phases of FL509 are now active – FL509A (1,500 vehicles), FL509B (2,000 vehicles), and FL509C (2,800 vehicles). Please perform the recall when ServicePro shows it is open for the specific vehicle.

- **Reimbursement for Prior Repairs.** When a customer asks about reimbursement, please do the following.
 - Accept the documentation of the previous repair.
 - Make a brief check of the customer's paperwork to see if the repair may be eligible for reimbursement. (See the "Copy of Owner Letter" section of this bulletin for reimbursement guidelines for this recall.)
 - Contact the Warranty Campaigns Department for a decision and authorization number.
 - Include the approved amount on your claim in sublet/outside purchases.
 - In the claim story, first note the authorization number and that the claim includes a reimbursement request.
 - Retain the documentation and provide it to Warranty Campaigns or Claims Processing if requested.
 - When your claim is paid, reimburse the customer the appropriate amount.

IMPORTANT: ServicePro® must be viewed prior to performing the recall to ensure the vehicle is involved and the campaign has not been previously completed. Also, check for a completion sticker prior to beginning work.

Contact the Warranty Campaigns Department at (800) 547-0712, from 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, Web inquiry at [AccessFreightliner.com / Support / My Tickets](http://AccessFreightliner.com/Support/MyTickets) and Submit an Inquiry, or the Customer Assistance Center at (800) 385-4357, after normal business hours, if you have any questions or need additional information.

To return excess kit inventory related to this campaign, U.S. dealers must submit a Parts Authorization Return (PAR) to the Memphis PDC. Canadian dealers must submit a PAR to their facing PDC. All kits must be in resalable condition. PAR requests must include the original purchase invoice number.

The letter notifying vehicle owners is included for your reference.

Please note that the National Traffic and Motor Vehicle Safety Act, as amended (Title 49, United States Code, Chapter 301), requires the owner's vehicle(s) be corrected within a reasonable time after parts are available to you. The Act states that failure to repair a vehicle within 60 days after tender for repair shall be prima facie evidence of an unreasonable time. However, circumstances of a particular situation may reduce the 60 day period. Failure to repair a vehicle within a reasonable time can result in either the obligation to (a) replace the vehicle with an identical or reasonably equivalent vehicle, without charge, or (b) refund the purchase price in full, less a reasonable allowance for depreciation. The Act further prohibits dealers from selling a vehicle unless all outstanding recalls are performed. Also, any lessor is required to send a copy of the recall notification to the lessee within 10 days.

Recall Campaign

Daimler Trucks
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Copy of Letter to Owner

Subject: ZF Lenksysteme 8018 Steering Gears

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

Daimler Trucks North America LLC, on behalf of its wholly owned subsidiary, Freightliner Custom Chassis Corporation, has decided that a defect that relates to motor vehicle safety exists on specific Freightliner Custom Chassis VCL, XB, and XC motorhome chassis manufactured between June 13, 2002, and June 13, 2007, with certain independent front suspension assemblies with ZF Lenksysteme 8018 steering gears.

Certain ZF Lenksysteme model 8018 steering gears may have been assembled with the incorrect recirculating ball spacer; this may allow the recirculating balls to escape their circuit. If this happens, the operator may notice that higher steering wheel inputs are required or the need for more steering wheel adjustments while driving in a straight line in combination with metallic cracking noises prior to a loss of steering. A loss of steering may result in a possible vehicle crash.

Steering gears will be inspected for certain manufacturing date codes and mileage at the time of inspection. Gears assembled during the affected periods and in a certain mileage range will be replaced.

Parts are now available for authorized dealers to order. Contact your authorized dealer to arrange to have your vehicle(s) inspected and to assure that parts are available at the dealer, if they are needed. To locate a dealer, search online at www.FreightlinerTrucks.com or contact the Warranty Campaigns Department for assistance.

When you contact your dealer, refer to campaign number **FL509A-C**. The inspection will take approximately half an hour. If a steering gear replacement is needed, once kit(s) are received at the dealership, it will take approximately four hours. The recall will be performed at no charge to you.

IMPORTANT: When the Recall has been completed, please ensure that a label has been affixed to your vehicle referencing **FL509A-C**.

If you do not own the vehicle that corresponds to the identification number(s) which appears on the Recall Notification, please return the notification to the Warranty Campaigns Department with any information you can furnish that will assist us in locating the present owner. If you have leased this vehicle, Federal law requires that you forward this notice to the lessee within 10 days. If you are a subsequent stage manufacturer, Federal law requires that you forward this notice to your distributors and retail outlets within five working days. If you have paid to have this recall condition corrected prior to this notice, you may be eligible to receive reimbursement. Please see the reverse side of this notice for details.

If you are not able to have the defect remedied without charge and within a reasonable time, which is not longer than 60 days after you tender the vehicle for repair, please contact the Warranty Campaigns Department at (800) 547-0712, 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address WarrantyCampaigns@freightliner.com, or the Customer Assistance Center at (800) FTL-HELP or (800) STL-HELP, after normal business hours. You may also wish to submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590; or call the Vehicle Safety Hotline at (888) 327-4236 (TTY: 800-424-9153); or to <http://www.safercar.gov>. If your vehicle is involved in the Canadian portion, you may wish to notify Transport Canada, ASFAD, Place de Ville Tower C, 330 Sparks Street, Ottawa, ON K1A 0N5, or phone (800) 333-0510.

We regret any inconvenience this action may cause but feel certain you understand our interest in motor vehicle safety.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

Reimbursement to Customers for Repairs Performed Prior to Recall

If you have already **paid** to have this recall condition corrected you may be eligible to receive reimbursement.

Requests for reimbursement may include parts and labor. Reimbursement may be limited to the amount the repair would have cost if completed by an authorized Freightliner LLC dealer. The following documentation must be presented to your dealer for consideration for reimbursement.

Please provide original or clear copies of all receipts, invoices, and repair orders that show:

- The name and address of the person who paid for the repair.
- The Vehicle Identification Number (VIN) of the vehicle that was repaired.
- What problem occurred, what repair was done, when the repair was done.
- Who repaired the vehicle.
- The total cost of the repair expense that is being claimed.
- Proof of payment for the repair (such as the front and back of a cancelled check or a credit card receipt).

Reimbursement will be made by check from your Freightliner LLC dealer.

Please speak with your Freightliner LLC authorized dealer concerning this matter.

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Work Instructions

Subject: ZF Lenksysteme 8018 Steering Gears

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NOTE: All phases of FL509 are now active – FL509A (1,500 vehicles), FL509B (2,000 vehicles), and FL509C (2,800 vehicles). Please perform the recall when ServicePro shows it is open for the specific vehicle.

REVISION: FL509C has now been activated. FL509B and C include the additional mileage inspection step. The FL509A inspection is unchanged and is of the date code only.

Inspection Procedures

Manufacturing Date Code Inspection

1. Check the base label (Form WAR259) for a completion sticker for FL509 (Form WAR260) indicating this work has been done. The base label is usually located on the front wall under the dash in motor homes. If a sticker for FL509 is present, nothing further needs to be done. If a sticker is not present, go to the next step.
2. Shut down the engine, set the parking brake, and chock the tires.
3. Check the date code on the data plate of the steering gear. See Fig. 1.
 - 3.1 If the date code is 250407 or more, nothing further needs to be done. Go to Step 4.
 - 3.2 If the date code is less than 250407:
If the vehicle is in FL509A, go to "Steering Gear Replacement."
If the vehicle is in FL509B or FL509C, go to "Mileage Inspection."
4. Clean a spot on the base label, write the recall number, FL509, on a blank completion sticker, and attach it to the base label.
5. Remove the chocks from tires.

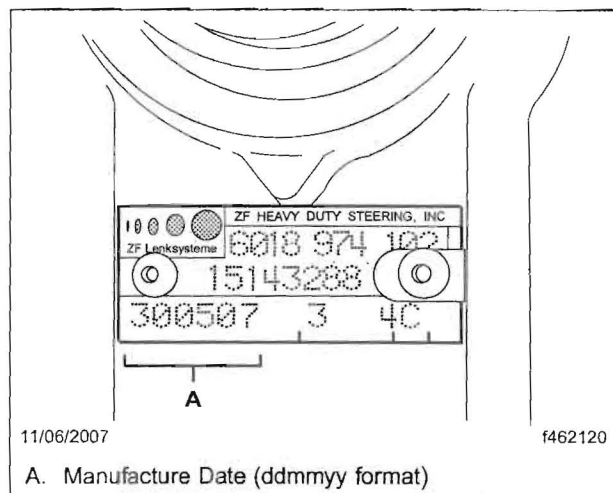


Fig. 1, Data Plate Identification

Recall Campaign

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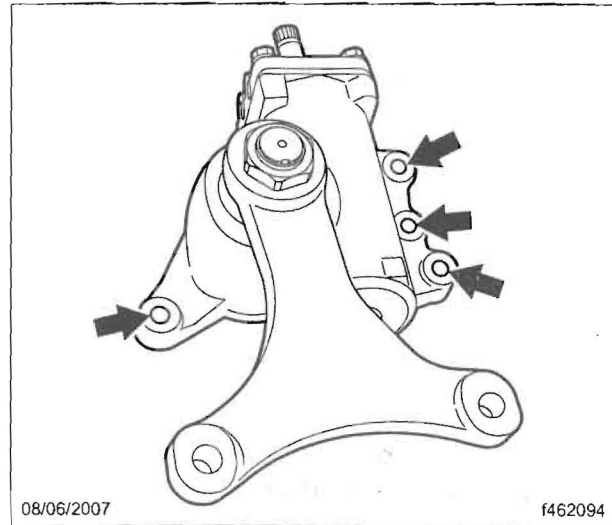


Fig. 2, Steering Gear Mounting Bolts

6. Install the new steering gear.

IMPORTANT: Use two assistants while performing the following procedure.

- 6.1 Position the new steering gear and pitman arm below its assembled position.
- 6.2 Using a transmission jack, lift the gear into place, piloting on the mounting bolts, then quickly thread at least one nut into place to prevent the gear from falling.
- 6.3 Install all remaining nuts, then tighten all four nuts 378 to 462 lbf-ft (18 to 22 N·m).
- 6.4 Connect the pressure and return hoses to the steering gear.

7. Connect the intermediate shaft.

- 7.1 Slide the intermediate shaft U-joint onto the steering gear input shaft.
- 7.2 Install a new pinch bolt in the U-joint, then install a new locknut on the pinch bolt and tighten the locknut 55 to 65 lbf-ft (75 to 88 N·m)
- 7.3 Apply white Torque Seal F-900 to the exposed pinch-bolt thread and to the locknut.

8. Install the tie-rod.

- 8.1 Insert the tie-rod end ball into the steer arm taper. Connect the tie-rod end.

IMPORTANT: Before tightening tie-rod end fasteners, coat the tie-rod end ball with 15/40 oil.

- 8.2 Tighten the outer tie-rod retaining nuts on the left and right sides. Tighten to 184 lbf-ft (250 N·m).
- 8.3 Install the cotter pins

NOTE: Poppets are preset, there is no poppet valve adjustment needed.

9. Clean a spot on the base label and attach a completion sticker for Recall FL509.

10. Remove the chocks from the tires.