

March 2024
FL992A
NHTSA #24V-013
Transport Canada #2024-006

Subject: Air Brake System Inversion Valve

Models Affected: Specific model year 2023 Western Star 4900 and 6900 vehicles manufactured from June 17, 2022, through September 11, 2023.

General Information

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned subsidiary, Western Star Truck Sales, Inc., has decided that a defect that relates to motor vehicle safety exists on the vehicles mentioned above.

On the affected vehicles, the inversion valve may delay the engagement of the parking brake, which can allow unintentional vehicle movement. Unintentional vehicle movement could increase the risk of a vehicle crash.

The inversion valve will be replaced.

There are approximately 218 vehicles involved in this campaign.

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 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 parts are now available and can be obtained by ordering the part number listed below from your facing Parts Distribution Center (PDC).

If our records show your dealership has ordered any vehicle(s) involved in campaign number FL992, a list of the customers and vehicle identification numbers will be available on the DTNA Portal via OWL. Please refer to this list when ordering parts for this recall.

Table 1 - Replacement Parts for FL992

Campaign Number	Part Description	Part Number	Qty.
FL992A	INVERSION VALVE	TDA RKN28032	1 ea
	BLANK COMPLETION STICKER	WAR260	1 ea

Table 1

Removed Parts

U.S. and Canadian Dealers, please follow Warranty Failed Parts Tracking shipping instructions for the disposition of all removed parts. Export distributors, please destroy removed parts unless otherwise advised.

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Labor Allowance

Table 2 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
FL992A	Replace inversion valve	1.0	996-R227A	12-Repair Recall/Campaign

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 (landed cost for Export Distributors) by submitting your claim through the warranty system within 30 days of completing this campaign. Please reference the following information in OWL:

- Claim type is **Recall Campaign**.
- In the Campaign field, enter the campaign number and appropriate condition code (**FL992-A**).
- In the Primary Failed Part Number field, enter **25-FL992-000**.
- In the Parts field, enter the appropriate part number as shown in the Replacement Parts table.
- In the Labor field, first enter the appropriate SRT from the Labor Allowance table. Administrative time will be included automatically as SRT 939-6010A for 0.3 hours.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.
- **U.S. and Canada -- 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.)
 - Submit an OWL Recall Pre-Approval request for a decision.
 - Include the approved amount on your claim in the Other Charges section.
 - Attach the documentation to the pre-approval request.
 - If approved, submit a based-on claim for the pre-approval.
 - Reimburse the customer the appropriate amount.

IMPORTANT: OWL 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.

U.S. and Canadian dealers, if you need additional information, contact the Warranty Campaigns Department using the WSC (Warranty Support Center) app on the DTNA Portal. Export distributors, submit a WSC ticket or contact your International Service Manager.

U.S. and Canadian Dealers: 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. Export Distributors: Excess inventory is not returnable.

The letter notifying U.S. and Canadian vehicle owners is included for your reference.

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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. Any lessor is required to send a copy of the recall notification to the lessee within 10 days. Any subsequent stage manufacturer is required to forward this notice to its distributors and retail outlets within five working days.

IMPORTANT SAFETY RECALL

This notice applies to your vehicle(s), see enclosed VIN list.

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

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned subsidiary, Western Star Truck Sales, Inc., has decided that certain Western Star 4900 and 6900 Model year 2023 vehicles fail to conform to Federal Motor Vehicle Safety Standard (FMVSS) No. 121, "Air brake systems."

Make	Model	Model Yr. Start	Model Yr. End	Prod. Start Date	Prod. End Date
Western Star	4900	2023	2023	June 17, 2022	September 11, 2023
Western Star	6900	2023	2023	September 1, 2022	November 15, 2022

On the affected vehicles, the inversion valves may delay the engagement of the parking brake, which can allow unintentional vehicle movement. Unintentional vehicle movement could increase the risk of a vehicle crash.

A Daimler Truck North America authorized service facility will inspect and replace the inversion valve as required. The Recall will take approximately one hour and will be **performed free of charge**.

Please contact an authorized Daimler Truck North America dealer to arrange to have the Recall performed and to ensure that parts are available at the dealership. To locate an authorized dealer, search online at <https://northamerica.daimlertruck.com/contact-us>. Scroll down to "Locate a Dealer" and select the appropriate brand.

You may also confirm your vehicle's involvement in this recall at the following URL:

<https://dtna-dlrinfo.prd.freightliner.com:48518/VinLookup/vin-module/getVinLookupPage>.

You may be liable for any progressive damage that results from your failure to complete the Recall within a reasonable time after receiving notification.

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 have questions about this Recall, 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 DTNA.Warranty.Campaigns@Daimlertruck.com. For other concerns, you may contact the Customer Assistance Center at (800) 385-4357. If your manufacturer, distributor, or dealer fails to remedy the defect or noncompliance without charge and within a reasonable time, you may 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 go to <http://www.nhtsa.gov>.

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

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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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 Daimler Truck North America 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 Daimler Truck North America LLC dealer.

Please speak with your Daimler Truck North America LLC authorized dealer concerning this matter.

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Work Instructions

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Models Affected: Specific model years 2023 Western Star 4900 and 6900 vehicles manufactured from June 17, 2022, through September 11, 2023.

Replacement of the Inversion Valve

1. Check the base label (Form WAR259) for a completion sticker for FL992 (Form WAR260), indicating this work has been done. The base label is usually located on the passenger-side door, about 12 inches (30 cm) below the door latch. If a completion sticker is present, no work is needed. If a completion sticker is not present, proceed to the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
3. Drain the air from the system.
4. Use the tool NQ307001-1 1/4" - 3/4" Air Line Release Tool (Standard) from the Air Line Release Tool kit NQ307001 (Hook Tools) to disconnect the four air lines from the fittings.
5. Remove the four fittings from the inversion valve.
6. Remove the two mounting bolts from the inversion valve. Remove the valve from the vehicle. See **Fig. 1**.

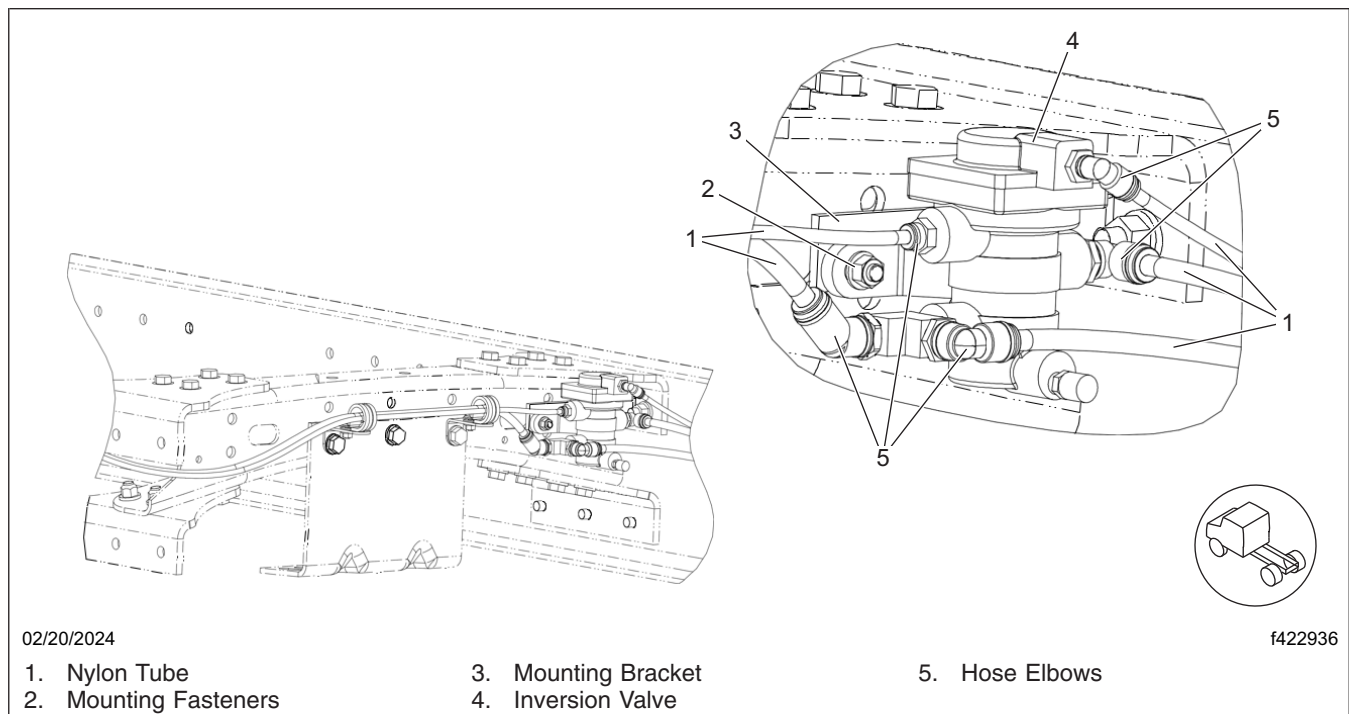


Fig. 1, Location of the Inversion Valve

7. Install the new valve and two bolts. Tighten the fasteners 106 to 159 lbf-in (1198 to 1796 N-cm).
8. Install the four fittings in the new valve.
9. Connect the new air lines.

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10. Follow the substeps to and test the valve functionality.
 - 10.1 Make sure that the tires are chocked.
 - 10.2 Start the vehicle, and charge the air brake system to the governor cut-out pressure.
 - 10.3 Place the parking control valve in 'Park' position. Observe that spring brake actuators apply promptly.
 - 10.4 Install a test gauge in the delivery line of the valve.
 - 10.5 Place the parking control valve in 'Release' position. Observe that spring brake actuators release fully.
 - 10.6 With the parking control valve in 'Release' position, check the pressure reading. The test gauge pressure reading should be 107 psi (738 kPa) nominally.
 - 10.7 When the parking control valve is placed in 'Park' position, the gauge reading should drop to zero promptly. A lag of more than three seconds in the drop of pressure indicates a faulty operation, replace the inversion valve, and do the functionality test again.
 - 10.8 Place the parking control valve in 'Release' position.
 - 10.9 Drain the air from the primary reservoir.
 - 10.10 Apply the foot brake valve several times, and note that the pressure reading on the gauge decreases each time the foot brake valve is applied (spring brake modulation). After applying the foot brake valve several times, pressure on the gauge drops to the point where the release of the spring brake actuators no longer occur.
11. Remove the gauge.
12. Build the air pressure, and test the brake functionality.
13. Clean a spot on the base label (Form WAR259), and attach a campaign completion sticker for FL992 (Form WAR260), indicating this work has been completed.