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January 31, 2005

Associate Administrator for Enforcement
National Highway Traffic Safety Administration
400 Seventh Street, S. W.
Washington, DC 20590

05V-032
(10 Pages)

The following information is submitted in accordance with the requirements of 49 CFR Part 573.6 as it applies to a defect relating to motor vehicle safety.

573.6(c)(1)
Autocar, LLC
P.O. Box 190
Hagerstown, IN 47346-0190

573.6(c)(2)
Autocar WX, WXLL and WXR model, heavy-duty class 8 vehicles manufactured between July 2003 and December 2004.

Identified vehicles fitted with Bendix antilock brakes.

573.6(c)(3)
There are One hundred and forty (140) vehicles potentially affected with serial numbers in the range 200003 through 201636

573.6(c)(4)
Percentage of vehicles expected to contain the suspect defect is unknown.

573.6(c)(5)
Autocar uses an end of line ABS Brake Tester to determine if the ABS brakes are wired correctly and that all the hardware is operational. If the end of line ABS Brake Tester detects an error, the truck is sent to a Service Bay where a mechanic using a Pro-Link diagnostic tester troubleshoots and corrects the error. Inadvertently, an Engineering Technician observed a mechanic troubleshooting a truck using the Pro-Link tester and discovered that the mechanic was not performing the test correctly and was getting invalid test results. Based on these results, a vehicle could be shipped with not all the faults being properly addressed. Our internal procedure at that time did not require that repaired trucks be sent back through the end of line

ABS Brake Tester to confirm that the errors detected had been corrected, therefore, this misdiagnosis would not have been caught.

Since that time, all mechanics using the Pro-Link diagnostic tool have been re-trained in it's proper use and no vehicles leave the factory without having a clean test report from the end of line ABS Brake Tester.

Autocar has now audited all of the test reports generated by the end of line ABS Brake Tester during the time frame in question and any truck having a failed test report in it's folder without either a subsequent test report from the end of line tester showing a "PASS" or a "Corrective Action" clearly showing that the wiring, configuration or hardware had been corrected, are part of this recall. Dealers are to manually check the operation of the ABS brake system to ensure no trucks are on the road without proper functioning ABS brakes.

573.6 (c)(6)

- 12/27/04 Engineering Technician observed a mechanic performing an ABS system analysis improperly.
- 12/28/04 All mechanics using the Pro-Link diagnostic tool have been re-trained in it's proper use.
- 1/5/05 It was determined that improper use of the Pro-Link tester could have allowed trucks with ABS system faults to be shipped and put into service.
- 1/16/05 A search of truck files turned up 144 trucks with end of line ABS brake test failures and no conclusive data in the package to indicate that the fault causing the test to fail was found and corrected.
- 1/26/05 Autocar, LLC has determined that the condition described in this notification constitutes a product defect and that this defect is safety related.

573.6(c)(7)
Not applicable

573.6(c)(8)
Autocar, LLC will initiate a voluntary owner notification and recall based on the vehicle population found with failing test reports.

Autocar, LLC reviewed warranty claims on this issue and found that no ABS brake related repairs were made on trucks outside of warranty and therefore no pre-notification repairs would have been made at the expense of the owner.

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The recall will consist of running a complete diagnostic test on the ABS braking system to ensure all components and wiring are functioning as designed.

The number, which has been assigned to this recall by Autocar, LLC, is **A - 0501**.

Owner's notices will be mailed as per the regulations as soon as they are reviewed and approved by NHTSA.

Very Truly Yours
AUTOCAR, LLC

A handwritten signature in black ink, appearing to read "Stan R. Gornick". The signature is written in a cursive style with a large, looping initial "S".

Stan R. Gornick, P. Eng.
Manager, Compliance

SAFETY RECALL BULLETIN

FEBRUARY 2005

ATTENTION: **SERVICE MANAGERS / PARTS MANAGERS**

SUBJECT: **BENDIX ABS BRAKE SYSTEM FAULTS**

VEHICLES
AFFECTED: **CERTAIN AUTOCAR WX, WXR AND WXLL MODEL**
VEHICLES DELIVERED BETWEEN JULY 2003 AND
DECEMBER 2004 IN THE VIN NUMBER RANGE OF
200003 TO 201636.

SAFETY RECALL INFORMATION:

Autocar LLC has determined that a defect relating to motor vehicle safety may exist in certain Autocar WX, WXR and WXLL model vehicles assembled at Autocar's Hagerstown facility. The ABS brake system may have system faults and/or ABS sensor or modulator wires crossed.

NUMBER of VEHICLES AFFECTED:

There are One hundred and forty-four (144) vehicles assembled at the Autocar Hagerstown facility potentially affected, with serial numbers in the range 200003 to 201636.

NOTE: To verify or determine if a particular vehicle is affected by this recall (or any other recall), you should consult the Service/Warranty screen. By entering the Vehicle Identification Number into the VIN Profile, the screen will display any outstanding recall(s).

If a "Dealer Listing" is enclosed, it identifies the vehicles that were sold or shipped to your dealership. Be sure to check the VIN Profile screen before performing the recall to verify that the recall is still open. If the recall has been completed by another dealer the word "Completed" will be shown behind the recall number.

INSPECTION INSTRUCTIONS:

Please see the Inspection and Repair procedure starting on Page 3.

REPAIR:

Please refer to the Repair Instructions starting on Page 3 for further details.

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TIME ALLOWANCE:

Inspection and Repair: 1.0 hour per vehicle

RECALL PARTS:

No parts are designated for this recall.

CLAIMS FOR CREDIT:

Expenses associated with the performance of this recall will be reimbursed based on the guidelines identified in this Bulletin, and by submitting a claim following published instructions in the "Claim Preparation" section of the "Service Operations Manual".

CLAIM CODING INFORMATION:

Authorization Number: - A-0501
Inspection & Repair: - 59301-0-16 1.0 hour per vehicle

OWNER RECALL RESPONSE CARD:

The "Owner Recall Response Card" is to provide the vehicle owner with a convenient way to notify Autocar LLC of changes affecting the ownership of the subject vehicle. The owner card is not intended for dealer usage other than to assist you in the preparation of the repair orders necessary to perform the applicable recall on the subject vehicle. Please do not use the card as a way to inform Autocar LLC that the vehicle has been inspected or modified. Your claim on line is sufficient.

DEALER RECALL RESPONSIBILITY:

Dealers are to perform the remedy on all vehicles subject to the recall at no charge to the owner regardless of mileage, age of vehicle, or ownership from this time forward. Whenever a vehicle subject to this recall is taken into your dealership for service, we strongly recommend you make every effort to perform the recall remedy before the vehicle is released to the owner.

NOTE: It is illegal to sell a vehicle from your inventory with any outstanding recalls.

AUTOCAR LLC

INSPECTION & REPAIR PROCEDURE FOR TROUBLESHOOTING THE ABS BRAKE SYSTEM WIRING

To prevent eye injury, always wear eye protection when performing vehicle maintenance, service or inspection.

DANGER

Before working on a vehicle, set the parking brake, place the transmission in neutral and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

1. Park the vehicle on a level surface. Turn off the engine, apply the parking brakes, and chock the rear tires to keep the vehicle from moving.
2. With the ignition key in the ON position reset the ECU by holding a magnet over the reset switch for more than 20 seconds (Per Bendix instructions for the EC-30 Controller. See Page 9 – Fault Reset - in Service Data Packet SD-13-4815)

Note: Service Data Packet SD-13-4815 can be viewed or downloaded from the Bendix web-site at http://www.bendix.com/downloads/service_data_sheet/134815.pdf

3. Allow the system to re-configure and check for faults. If faults are detected record the faults, perform diagnostic tests and repair. Once the faults have been repaired reset the ECU following the procedure in Step 2 above. If no faults are found proceed to Step 4 otherwise troubleshoot the system again.
4. With the ignition key ON, disconnect the right rear wheel sensor. Check the ECU for fault lights. You should see the RER, RHT and SEN lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the rear wheel sensor. Check ECU for fault lights. If no fault lights are found proceed to Step 6 otherwise troubleshoot the system again.
5. If the RER, LFT and SEN lights are illuminated the sensor wires are crossed and you must swap the harness wires side to side. After swapping the wires, check ECU for fault lights. If no fault lights are found proceed to Step 6 otherwise troubleshoot the system again.
6. If the truck has ATC (Automatic Traction Control) the forward drive axle will be equipped with wheel speed sensors as well. If so, unplug the right forward drive axle wheel

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speed sensor and check for faults. The MID, RHT, SEN light should be on. If the MID, LFT, SEN lights are illuminated you must swap the wires side to side. After swapping the wires, check ECU for fault lights. If no fault lights are found proceed to Step 7 otherwise troubleshoot the system again.

7. With the ignition key ON, disconnect the left rear wheel sensor. Check the ECU for fault lights. You should see the RER, LFT and SEN lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the rear wheel sensor. Check ECU for fault lights. If no fault lights are found proceed to Step 8 otherwise troubleshoot the system again.
8. With the ignition key ON, disconnect the wiring harness connector from the right rear modulator valve. Check the ECU for fault lights. You should see the RER, RHT and MOD lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the rear modulator valve. Check ECU for fault lights. If no fault lights are found proceed to Step 10 otherwise troubleshoot the system again.
9. If the RER, LFT and MOD lights are illuminated the modulator wires are crossed and you must swap the harness wires side to side. After swapping the wires, check ECU for fault lights. If no fault lights are found proceed to Step 10 otherwise troubleshoot the system again.
10. With the ignition key ON, disconnect the wiring harness connector from the left rear modulator valve. Check the ECU for fault lights. You should see the RER, LFT and MOD lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the rear modulator valve. Check ECU for fault lights. If no fault lights are found proceed to Step 11 otherwise troubleshoot the system again.
11. With the ignition key ON, disconnect the right front wheel sensor. Check the ECU for fault lights. You should see the FRT, RHT and SEN lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the front wheel sensor. Check ECU for fault lights. If no fault lights are found proceed to Step 13 otherwise troubleshoot the system again.
12. If the FRT, LFT and SEN lights are illuminated the sensor wires are crossed and you must swap the harness wires side to side. After swapping the wires, Check ECU for fault lights. If no fault lights are found proceed to Step 13 otherwise troubleshoot the system again.
13. With the ignition key ON, disconnect the left front wheel sensor. Check the ECU for fault lights. You should see the FRT, LFT and SEN lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the front wheel sensor. Check ECU for fault lights. If no fault lights are found proceed to Step 14 otherwise troubleshoot the system again.

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14. With the ignition key ON, disconnect the wiring harness connector from the right front modulator valve. Check the ECU for fault lights. You should see the FRT, RHT and MOD lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the right front modulator valve. Check ECU for fault lights. If no fault lights are found proceed to Step 16 otherwise troubleshoot the system again.
15. If the FRT, LFT and MOD lights are illuminated the modulator wires are crossed and you must swap the harness wires side to side. After swapping the wires, check ECU for fault lights. If no fault lights are found proceed to Step 16 otherwise troubleshoot the system again.
16. With the ignition key ON, disconnect the wiring harness connector from the left front modulator valve. Check the ECU for fault lights. You should see the FRT, LFT and MOD lights illuminated plus the ABS light on the dash should be lit. If correct, re-connect the left front modulator valve. Check ECU for fault lights. If no fault lights are found proceed to Step 17 otherwise troubleshoot the system again.
17. Tie up all loose wires. Recall is complete.

SAFETY RECALL NOTICE



SAFETY RECALL A-0501 FEBRUARY 2005

Dear Autocar Truck Owner:

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

Autocar LLC has decided that a defect that relates to motor vehicle safety may exist in certain WX, WXLL and WXR model, heavy-duty Class 8 vehicles shipped between July 2003 & December 2004 with VIN number range 200003 to 201636.

SAFETY DEFECT: On certain Autocar WX, WXR and WXLL model vehicles the ABS brakes may have a system fault that may not be detected by the ABS ECU and therefore will not generate an ABS Warning light on the dash of your truck.

POTENTIAL RISK: Your ABS brakes may not perform as designed and in an ABS assisted stop you may not be able to maintain steering control of your vehicle. Any time vehicle control is compromised there is a chance for a vehicle accident.

PRECAUTIONS YOU CAN TAKE: There are no precautions you can take other than immediately contacting your closest AUTOCAR dealer to set up an appointment to have your truck inspected.

REPAIR: At no charge to you regardless of your vehicle's age or mileage, an Autocar truck dealer will inspect and/or repair your vehicle.

TIME REQUIRED FOR THE REPAIR: The labor time required to inspect and/or repair your vehicle is about 1.0 hour.

WHAT YOU SHOULD DO: Autocar LLC *urges* you to immediately contact a Autocar Truck dealer for a service appointment to have your vehicle inspected and/or repaired. To locate the closest Autocar truck dealer you can go on line to www.Autocartruck.com and select Sales, Service & Parts or call 1-877-973-3486 Ext. 2572

PRE-NOTIFICATION REPAIR: If you have previously paid for repairs to your ABS brake system you may be entitled to recovery of those expenses. Submit a copy of all documentation supporting your claim to Autocar Trucks at the address identified in this notice in the section "Assistance".

NOTICE REGARDING LEASED VEHICLES: If you are a Lessor of vehicles subject to this Notice, you have an obligation under Federal Law to provide a copy of this Notice to all Lessees within 10 days of your receipt of this Notice. Further, you must " maintain a record, which identifies the Lessee(s) to whom you send a copy of this letter, the date you send this letter, and the Vehicle Identification Number(s) of the vehicle(s) that you have leased to that Lessee. For, purposes of this Notice, the term Lessor means: a person or entity that is the owner, as reflected on

SAFETY RECALL NOTICE



the vehicle's title, of any five or more leased vehicles (as defined In 49 CFR Section 577.4), as of the date of notification by the manufacturer of the existence of a safety-related defect or non-compliance.

**OWNER RECALL
RESPONSE CARD:**

The enclosed "Owner Recall Response Card" identifies your vehicle. Presentation of this card to any Authorized Full-Service or Parts and Service Autocar truck dealer will assist in the processing of your vehicle in the shortest time possible. If you do not own, have sold or have traded the vehicle identified, please let us know by completing, and signing the postage-paid Card and returning it to Autocar LLC so we can update our records.

ASSISTANCE:

If your vehicle has not been modified within a reasonable time after delivering it to the dealer on the agreed-upon service date, please contact:

Autocar LLC
Service & Warranty Department
P.O. Box 190
Hagerstown, IN 47346-0190

or call our toll-free number: 1-877-973-3486. You may also submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S. W., Washington DC 20590 or call the toll-free Auto Safety Hot Line at 1-888-327-4236.

We regret any inconvenience this recall may cause, but hope you will share in our concern for your safety and satisfaction with your vehicle.

Sincerely

AUTOCAR, LLC