



U.S. Department of Transportation

National Highway Traffic Safety Administration

**DOT Auto Safety Hotline  
Vehicle Owner's Questionnaire (VOQ)**

NATIONWIDE 1-888-DASH-2-DOT  
1-888-327-4236  
www.nhtsa.dot.gov/hotline

**FOR AGENCY USE ONLY 119**

Data Received  31-JUL-2000	Od_or _____
	rt_dt _____
	od_rt _____
	up_ltr _____
Reference No.  866399	

Do you authorize NHTSA to provide a copy of report to the manufacturer of your vehicle?  YES  NO  
In the absence of an authorization, NHTSA WILL NOT provide your name and address to the vehicle manufacturer.

Signature of Owner \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

**VEHICLE INFORMATION**

Vehicle Ident. No. (VIN) <small>(Listed at front of windshield or drivers side)</small> <b>1HTGGAET2YH244851</b>	Vehicle Make <b>INTERNATIONAL</b>	Vehicle Model <b>2574</b>	Vehicle Year <b>2000</b>	Current Odometer Reading
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Purchase Date	Dealer's Name _____	Engine Size (CID/CC/L) _____	<input type="checkbox"/> Turbo
<input checked="" type="checkbox"/> New <input type="checkbox"/> Used	City _____ State _____ Zip Code _____	No. Cylinders _____	<input type="checkbox"/> Diesel
			<input type="checkbox"/> Gas
			<input type="checkbox"/> Fuel Injection

Transmission Type <input type="checkbox"/> Manual <input type="checkbox"/> Automatic	Antilock Brakes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Restraint System <input type="checkbox"/> 3-Point Belt <input type="checkbox"/> Motorbelt <input type="checkbox"/> Driverside Airbag <input type="checkbox"/> 2-Point Belt <input type="checkbox"/> Passengerside Airbag	Cruise Control <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Drive Train <input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> 4-Wheel	Vehicle Type <input type="checkbox"/> Car <input type="checkbox"/> Sport Ult <input type="checkbox"/> Van <input type="checkbox"/> Truck <input type="checkbox"/> Minivan <input type="checkbox"/> Motorcycle <input type="checkbox"/> Other _____	Body Style <input type="checkbox"/> 2-Door <input type="checkbox"/> 4-Door <input type="checkbox"/> Stationwagon <input type="checkbox"/> Pick Up Truck <input type="checkbox"/> Other _____
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**FAILED COMPONENT(S)/PART(S) INFORMATION**

Component <b>03200000</b>	Part Name(s) <b>BRAKES:HYDRAULIC SYSTEM</b>	Location <input type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> Front <input type="checkbox"/> Rear	Failed Part(s) <input type="checkbox"/> Original <input type="checkbox"/> Replacement
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No. of Failures	Date(s) of Failure(s) _____ Mileage at Failure(s) <u>13</u> Vehicle Speed at Failure(s) _____	Failed Part(s) Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	NHTSA Previously Contacted? <input type="checkbox"/> Yes <input type="checkbox"/> No
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**APPLICATION INCIDENT INFORMATION**

(Please describe in detail the incident(s), Failure(s), Crash(es), and injury(ies) on the back of this form)


Crash <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Fire <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Number of Persons Injured	Number of Fatalities	Estimated Property Damage	Reported to Police <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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**NARRATIVE DESCRIPTION OF FAILURE(S), INCIDENT(S), INJURY(IES)**

WHEN PLOWING SNOW OR ICE, SNOW AND ICE BUILD UP UNDERNEATH, AND WHEN COMING INTO CONTACT WITH BRAKE LINE HOSE, IT RUBS A HOLE IN THE HOSE AND CAUSES BRAKE FAILURE. CONSUMER HAS CONTACTED DEALER. PLEASE PROVIDE ANY FURTHER DETAILS. ALSO, CONSUMER THINKS PROBLEM IS RELATED TO A PROGRAM ERROR. \*AK

CONTINUED ON BACK (REVERSE)

The Privacy Act of 1974-Public Law 93-579 This information is requested pursuant to authority vested in the National Highway Traffic Safety Act and subsequent amendments. You are under no obligation to respond to this questionnaire. Your response may be used to assist the NHTSA in determining whether a manufacturer should take appropriate action to correct a safety defect. If the NHTSA proceeds with administrative enforcement or litigation against a manufacturer, your response, or a statistical summary thereof, may be used in support of the agency's action.

DOT Auto Safety Hotline		FOR AGENCY USE ONLY 119	
 U.S. Department of Transportation National Highway Traffic Safety Administration		<b>Vehicle Owner's Questionnaire (VOQ)</b> NATIONWIDE 1-888-DASH-2-DOT 1-888-327-4236 www.nhtsa.dot.gov/hotline	
OWNER INFORMATION (Type or Print)		Date Received <b>AUG 21 AM 10:55</b> <b>31 JUL 2000</b> <b>OFFICE OF DEFECTS INVESTIGATION</b>	
[Redacted] 624069		Od. or rt. dt. _____ od. in _____ up. no. _____	
Do you authorize NHTSA to provide a copy of report to the manufacturer of your vehicle? In the absence of an authorized signature, you agree to provide your name and address to the vehicle manufacturer.		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Date <b>8/15/00</b>	
Signature of Owner		Reference No. 866399	
Work Number		Home Number	
VEHICLE INFORMATION			
Vehicle Ident. No. (VIN) (Located at bottom of windshield on driver's side)	Vehicle Make	Vehicle Model	Vehicle Year
1HTGGAET2YH244851	INTERNATIONAL	2574	2000
Current Odometer Reading	13972		
Purchase Date	Dealer's Name		Engine Size (CID/CC/L)
12-1-99	Woodland International Trucks		N-14
<input checked="" type="checkbox"/> New <input type="checkbox"/> Used	City	State	Zip Code
	Muskegon	MI	49444
Engine No. Cylinders	6		
<input type="checkbox"/> Turbo <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Fuel Injection			
Transmission Type	Antilock Brakes	Restraint System	Cruise Control
<input type="checkbox"/> Manual <input checked="" type="checkbox"/> Automatic	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> 3-Point Belt <input type="checkbox"/> Motorbelt <input type="checkbox"/> Driverside Airbag <input type="checkbox"/> 2-Point Belt <input type="checkbox"/> Passengerside Airbag	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Drive Train	Vehicle Type		Body Style
<input type="checkbox"/> Front <input checked="" type="checkbox"/> Rear <input type="checkbox"/> 4-Wheel	<input type="checkbox"/> Car <input type="checkbox"/> Sport Util <input type="checkbox"/> Truck <input type="checkbox"/> Minivan <input type="checkbox"/> Motorcycle <input checked="" type="checkbox"/> Other TANDEM AXLE DUMP TRUCK		<input type="checkbox"/> 2-Door <input type="checkbox"/> 4-Door <input type="checkbox"/> Stationwagon <input type="checkbox"/> Pick Up Truck <input type="checkbox"/> Other
FAILED COMPONENT(S)/PART(S) INFORMATION			
Component	Part Name(s)	Location	Failed Part(s)
03200000	<del>BRAKES:HYDRAULIC SYSTEM</del> BENDIX ABS AIR BRAKES	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Front <input type="checkbox"/> Rear	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Replacement
No of Failures	Date(s) of Failure(s)	Mileage at Failure(s)	Vehicle Speed at Failure(s)
4	JUNE-JULY 2000	12-13000 MILES	< 10 MPH
Failed Part(s) Available?	NHTSA Previously Contacted?		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
APPLICATION INCIDENT INFORMATION			
(Please describe in detail the incident(s), failure(s), crash(es), and injury(ies) on the back of this form)			
Crash	Fire	Number of Persons Injured	Number of Fatalities
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0	0
Estimated Property Damage	Reported to Police		
0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
NARRATIVE DESCRIPTION OF FAILURE(S), INCIDENT(S), INJURY(IES)			
WHEN PLOWING SNOW OR ICE, SNOW AND ICE BUILD UP UNDERNEATH, AND WHEN COMING INTO CONTACT WITH BRAKE LINE HOSE, IT RUBS A HOLE IN THE HOSE AND CAUSES BRAKE FAILURE. CONSUMER HAS CONTACTED DEALER. PLEASE PROVIDE ANY FURTHER DETAILS. ALSO, CONSUMER THINKS PROBLEM IS RELATED TO A PROGRAM ERROR. *AK THIS IS INCORRECT. SEE ATTACHED LETTER AND CORRESPONDENCE. SAFETY RECALL CO503 ONLY ADDRESSES RUBBING WIRES, WHICH ONLY GUARENTES NO PROBLEM AS FAR AS THE DODGEWAY. ANY SIGNAL ANOMOLIES SHOULD CAUSE ABS TO DEFAULT TO NORMAL BRAKE OPERATIONAL!!!			
CONTINUE ON BACK IF NEEDED			
The Privacy Act of 1974-Public Law 93-579 This information is requested pursuant to authority vested in the National Highway Traffic Safety Act and subsequent amendments. You are under no obligation to respond to this questionnaire. Your response may be used to assist the NHTSA in determining whether a manufacturer should take appropriate action to correct a safety defect. If the NHTSA proceeds with administrative enforcement or litigation against a manufacturer, your response, or a statistical summary thereof, may be used in support of the agency's action.			



INTERNATIONAL TRUCK AND ENGINE CORPORATION

455 NORTH CITYFRONT PLAZA DRIVE, CHICAGO, IL 60611

TELEPHONE 312-836-2000

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TRUCK GROUP

## **SAFETY RECALL 00505**

July, 2000

Dear International Customer:

This Safety Recall is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. International has determined that a defect which relates to motor vehicle safety exists in 2000, 3000, 4000, 8000, and 9000 model series with Bendix Air ABS brakes and built from 3/01/1998 through 5/29/2000. If you are not the owner, we need your help finding the current owner; **please follow step 3 under "ACTION YOU SHOULD TAKE."**

### **REASON FOR THIS RECALL**

**RISK TO MOTOR VEHICLE SAFETY:** Your vehicle could experience an extended stopping distance without warning when the vehicle is decelerating from 8 to 4 miles per hour. If an extended stopping distance occurs, **your vehicle could be involved in an accident which could result in property damage, personal injury, or death.**

**DEFECT DESCRIPTION:** These vehicles could have defective routing and clipping of the Antilock Braking System (ABS) wheel speed sensors. The problem is chafing of the ABS sensor wires on rotating parts, which can lead to a false signal being sent to the Bendix ABS Electronic Control Unit (ECU). This condition may cause the air ABS ECU to exhaust the air at the air brake modulators for one or more of the wheels.

### **ACTION YOU SHOULD TAKE**

1. Our records show that you are the owner of the vehicle identified on the enclosed card. If you are not the owner, please read number 3 on the next page.

**OVER PLEASE**

2. The remedy is to inspect the sensor wire routing and reroute or replace the ABS sensors as required. This inspection along with any required repair will be performed without charge to you and will require approximately one hour. However, the required inspection of the sensor wires can be done by the customer, using the instructions and guidelines attached.

**VERY IMPORTANT NOTE:** If you perform the inspection yourself and the vehicle did not have to be taken to the dealer for repair of this recall, please complete the recall card by: **checking box one, signing your name, dating the card, and dropping the card in the mail (no postage necessary).** If you choose not to do the inspection yourself or if you find sensor wire damage during your inspection, please contact your International dealer immediately and arrange to have your vehicle inspected and or repaired as soon as possible.

3. If the vehicle will not or cannot be corrected, please mark on the enclosed card under "CHECK ONE", the box which best describes why the vehicle will not be repaired, and return the postage-prepaid card to us. In the event you no longer own the vehicle described on the card, please complete the card, fill in the new customer name and address if known, and return it to us. This information will allow us to update our records so that we can contact the new owner and you will not be contacted again regarding this recall.

### **IF YOU NEED ASSISTANCE**

If you take your vehicle to your international dealer on a mutually agreed upon service date, and the dealer does not remedy this condition without charge on that date or within five days, you can obtain assistance by following the procedure described in the Owner Assistance Guide section in your Owner's Manual or by calling toll free 1-800-448-7825.

You may also wish to submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C., 20590, or call the toll-free Auto Safety Hot-Line at 1-888-327-4236 if your International dealer fails to repair or is unable to remedy this condition without charge or within a reasonable time.

**We urge your prompt attention to the correction of this safety defect and apologize for any inconvenience this may cause you.**

**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

## **OPTIONAL CUSTOMER INSPECTION PROCEDURE**

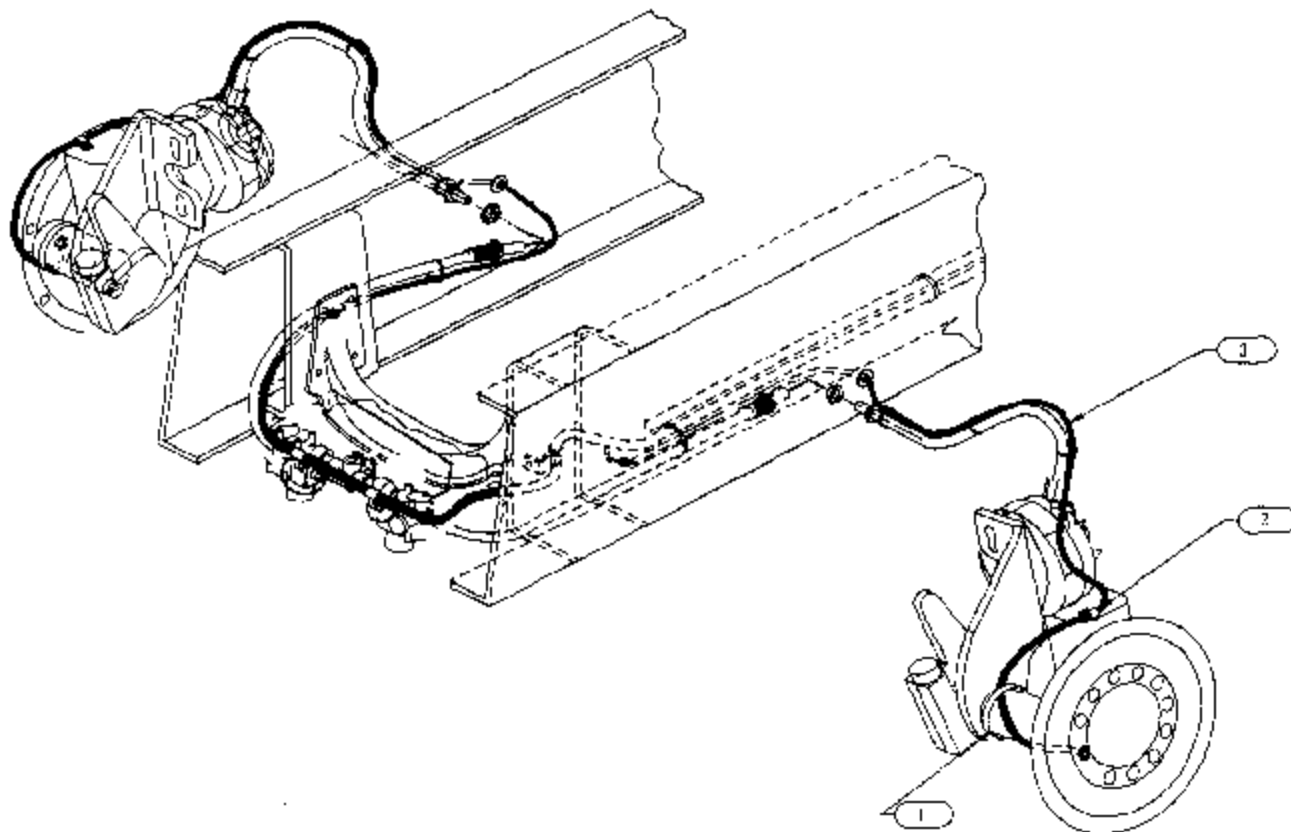
Your ABS system has four sensor wires routed to four of the wheel ends. These wires must be checked for damage and proper installation. Owners that have confidence in their ability to perform the inspection outlined in this letter can complete the inspection in less than one hour and avoid the driving and scheduling time required to have the local dealer perform this inspection. **Please make the choice as soon as possible**, to either do the inspection yourself and send in the Safety Recall card, or to call your local dealer for an appointment.

**VERY IMPORTANT NOTE 1:** If you have any concern regarding your ability to properly inspect the wires for damage and proper installation, do not undertake this procedure. Instead, immediately contact your local dealer for an appointment.

**VERY IMPORTANT NOTE 2:** If you perform the inspection yourself and the vehicle did not have to be taken to the dealer for repair of this recall, please complete the recall card by: checking box one, signing your name, dating the card, and dropping the card in the mail (no postage necessary).

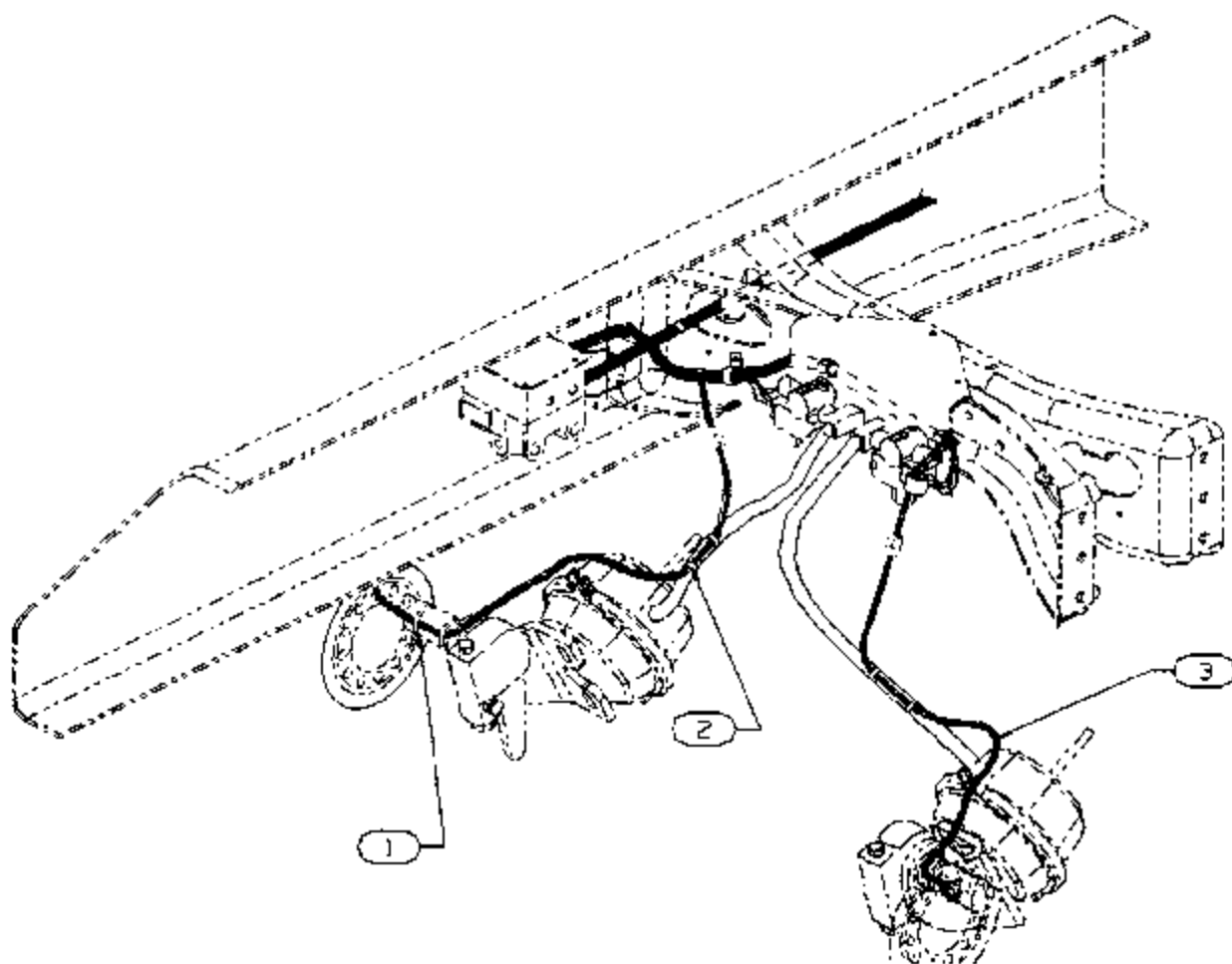
1. Park the vehicle on level ground, set the parking brake and shut off the engine.
2. Most vehicles will not have to be raised to perform this inspection.  
**WARNING:** Block the wheels to prevent the vehicle from moving. If the vehicle must be raised, support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip or fall over resulting in serious personal injury or death.
3. **SENSOR WIRE INSPECTION:** Refer to Figure 1 when inspecting the front axle sensor wires and refer to Figure 2 when inspecting the rear axle sensor wires.
  - A. **Looking for damaged sensor wires:** Follow the wires from the wheel ends to the connector plugs and verify that the wires have not been damaged from rubbing or chafing and make sure the wires have not been pinched by the axle stops, cross-members, brackets, etc.. Verify that the wires are tied or strapped in approximately the same locations as shown in Figure 1 and Figure 2. Only UV resistant strap locks should be used. Your installation may vary slightly from the example shown in Figure 1 and Figure 2.
  - B. **To prevent sensor wire damage:** Extra wire length should be securely tied away from all moving parts. Look for excessive wire length at the wheel ends and around the drive shaft. The wires should be at least 1.5 inches away from all rotating parts. If there is extra wire length at the wheel end, make sure the wires can not rub on the rim, drum, or tire. Also, consider whether or not the wires can come in contact with the moving parts as the vehicle is making a full turn in either direction. If there is excessive wire length around the drive shaft, make sure the wires are secured at least 1.5 inches away from the rotating shaft. Only UV resistant strap locks should be used.

- C. **If you find a problem:** If you find missing or damaged strap locks, you can follow these guidelines and replace the strap locks yourself, or contact your local dealer to have the repair completed. Only UV resistant strap locks should be used. If you find a sensor wire that has the insulation rubbed through, contact your local dealer to make an appointment and have the sensor replaced.



**Figure 1: Typical Front Axle Sensor Wire Routing**

1. Sensor wire secured to the brake cam tube with a strap lock to avoid contact with the moving parts of the wheel end (drum, rim, tire).
2. Some models have this p-clamp on the kingpin top cover plate mounting bolt.
3. Sensor wire secured to the air hose every six inches.



**Figure 2: Typical Rear Sensor Wire Routing**

1. Sensor wire secured to the brake cam tube with two strap locks to avoid contact with the moving parts of the wheel end (drum, rim, tire).
2. And 3. Sensor wire secured to the air hose every six inches.

**IMPORTANT NOTES! After completing the inspection:**

1. If everything looks good, then **complete your recall card by checking box 1, signing your name, dating the card, and dropping the card in the mail (no postage necessary)**. The completed card will tell us that you have addressed this safety issue and allow us to update our records so you will not receive further notifications for this campaign.
2. If the sensor wires are not properly secured, you may chose to strap lock them as instructed or contact your local dealer and have the repair made for you at no charge.
3. If you find sensor wire damage, you should contact your dealer immediately to have the vehicle repaired at no charge.

We sincerely **THANK YOU** for your time and efforts.

**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

June 23, 2000

To Whom It May Concern:

Subject Vehicle is a 1999, 2574 S-series, International (Navistar), tandem axle, dump truck. It is equipped with Bendix (Allied Signal) ABS brakes.

Operator reported that on approaching a stop sign, at a cross street intersection, while applying the brakes "normally" to slow down and stop, and without changing brake pedal pressure, the brakes disengaged, and vehicle rolled completely through the intersection. About the time the vehicle would have stopped rolling do to it's loss of momentum, the brakes reapplied abruptly, and vehicle stopped. This would have been about even with the stop sign for opposing traffic on the other side of intersection.

Mechanics inspected vehicle, checked brake adjustment, checked system with Bendix diagnostic tool, and test drove vehicle. They found no problems, or warning lights, and could not get vehicle to repeat what the operator reported.

Approximately two weeks later, operator of subject vehicle, reported that the same thing happened again.

At this time I test drove vehicle, and on two different brake applications, the vehicle repeated what the operator had reported:

With a "normal" application of brakes to stop the vehicle, with no warning light indicating in the dash, after slowing to a speed of less than ten (10) miles per hour, with a constant brake pedal pressure, the brakes disengaged, and the vehicle rolled approximately three (3) full vehicle lengths before vehicle momentum dissipated and then vehicle brakes applied abruptly to stop the truck. On the second test drive failure, the brake pedal pressure was increased to the point in which the brake pedal was depressed to its full travel distance with no difference noted in the braking results.

Telephone calls to Bendix brakes technical service department noted that: " yes, its' possible under some slow speed applications that this could happen." And, "just apply the parking brake."

In subsequent test driving, the warning light on the dash illuminated, and further diagnosing with the Bendix diagnostic tool resulted in a fault noted for the right front drive axle wheel sensor.

Woodland International Truck dealer, in Muskegon Michigan, was notified, and vehicle was delivered to them to diagnose and repair, under warranty.

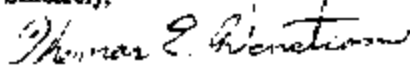
Woodland did diagnose, and repair, then replaced a portion of the ABS wiring harness, that had rubbed on a drive shaft.

Bendix did have a service representative go to Woodland to inspect subject vehicle and found no other abnormalities.

In all discussions, literature, and service seminars on these ABS systems, it is stated, "that any failure of the ABS system will result in a return to normal brakes." I feel this is untrue, and that the previously described incidents prove that. I also believe that in our work environment that this could happen again.

In the interest of the safety of my operators, and the motoring public, I feel Bendix (Allied Signal) Brakes needs to reexamine, reengineer, recall, and repair, what I feel is a defective anti-skid braking system.

Sincerely,

  
Thomas E. Wenstrom  
Shop Supervisor  
Newaygo County Road Commission

#460

REC'D

JUN 21 2000

NEWAYGO COUNTY ROAD COMMISSION

PAGE 1

WOODLAND

NEWAYGO COUNTY ROAD COMMISSION  
935 ONE MILE ROAD  
WHITE CLOUD, MI 49349

INTERNATIONAL TRUCKS-MUSKEGON  
274 W. Sherman Blvd. \* Muskegon, MI 49444  
(231) 733-2157 \* (800) 569-2157 \* FAX (231) 739-4277

SERVICE ADVISOR **JAMES MCCLAIN**

DATE WRITTEN	DATE READY	STOCK NO.	VEHICLE IDENTIFICATION	CUST. NO.	TAG NO.	P.O. NO.	INVOICE DATED	INVOICE NO.
20APR00	15JUN00	341	1HTGGAET2YH244851	13250			15JUN00	13549
TIME IN	TIME READY	YEAR	MAKE & MODEL	TELEPHONE NO.	OUR RATE	DELIVERY DATE	FINANCED BY	SA.
07:49	10:48	2000	INTERNATIONAL 2574	231-689-6682	54.00	22DEC99	501	513
RELEASE IN	RELEASE OUT	LICENSE NO.						
13972	13972							

**A CHECK ABS LIGHT ON**  
CAUSE: BROKEN WIRE AT RIGHT REAR SENSOR.  
A08-605 DIAGNOSE AND REPAIR WIRING OR SHORT Includes: Test and locate open circuit or short. Fabricate and/or replace one  
602 D.J. REED LIC#: M140077  
WN 1.36  
603 L.R. MCDONALD LIC#: M212110  
WN 0.64  
SUBTOTAL 2.00  
6 1651969C1 TERMINAL  
2 71893 16-14 NYLON  
SHRINK BUPT  
FC: 04000  
PART#: 1651969C1  
COUNT: 918  
CLAIM TYPE: D  
AUTH CODE: 01  
P

**TRACE ALL WIRING AND CHECK ALL CONNECTIONS AND REPAIR WIRING AT R/R SENSOR.**  
**B CHECK AIR LEVELING REAR AXLE**  
CAUSE: AIR LEVELING VALVES GOING OVER CENTER.

F144566  
**CUSTOMER APPROVAL FOR REPAIRS NOT COVERED BY WARRANTY, POLICY, OR FIELD CHANGES**

The account is due and payable in full by the 10th of the month following purchase. Accounts past due are subject to a delinquency charge of 20.4% per annum on the outstanding balance. In the event the account is referred for collection, it is agreed that the balance due includes all collection costs including a reasonable attorney fee.

TERMS: STRICTLY CASH UNLESS ARRANGEMENTS MADE

I HEREBY AUTHORIZE THE REPAIR WORK HEREIN SET FORTH TO BE DONE ALONG WITH THE NECESSARY MATERIALS AND AGREE THAT YOU ARE NOT RESPONSIBLE FOR LOSS OR DAMAGE TO VEHICLE OR ARTICLES LEFT IN VEHICLE IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE BEYOND YOUR CONTROL OR FOR ANY DELAYS CAUSED BY UNAVAILABILITY OF PARTS OR DELAY IN PARTS SHIPMENTS BY THE SUPPLIER OR TRANSPORTER. I HEREBY GRANT YOU AND/OR YOUR EMPLOYEES PERMISSION TO OPERATE THE VEHICLE HEREIN DESCRIBED ON STREETS, HIGHWAYS, OR ELSEWHERE FOR THE PURPOSE OF TESTING AND/OR INSPECTION. AN EXPRESS GARAGE KEEPER'S LIEN IS HEREBY ACKNOWLEDGED ON THE VEHICLE TO SECURE THE AMOUNT OF REPAIRS THEREON. I UNDERSTAND THAT PURSUANT TO SAID EXPRESS GARAGE KEEPER'S LIEN, I HAVE NO RIGHT OF POSSESSION TO THE ABOVE VEHICLE UNTIL THE REPAIRS THEREON HAVE BEEN PAID IN FULL OR UNTIL YOU AND/OR YOUR EMPLOYEES HAVE RELEASED THE VEHICLE TO ME.

ALL PARTS INSTALLED ARE NEW UNLESS SPECIFIED OTHERWISE.

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

**STATEMENT OF DISCLAIMER**

The factory warranty constitutes all of the warranties with respect to the sale of this item/items. The Seller hereby expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose. Seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of this item/items.

CUSTOMER SIGNATURE



All repairs and parts listed were furnished in compliance with the Michigan Motor Vehicle Service and Repair Act.

X \_\_\_\_\_ CUSTOMER COPY

**WOODLAND**

NEWAYGO COUNTY ROAD COMMISSION  
935 ONE MILE ROAD  
WHITE CLOUD, MI 49349



**INTERNATIONAL TRUCKS-MUSKEGON**

274 W. Sherman Blvd. \* Muskegon, MI 49444  
(231) 733-2157 \* (800) 589-2157 \* FAX (231) 739-4277

SERVICE ADVISOR **JAMES MCCLAIN**

DATE WRITTEN	DATE READY	STOCK NO.	VEHICLE IDENTIFICATION	CLERK NO.	TAXI NO.	P.O. NO.	VEHICLE PARTED	INVOICE NO.
20APR00	15JUN00	341	1HTGGAET2YH244851	13250			15JUN00	13549
TIME IN	TIME READY	YEAR	MAKE & MODEL	TELEPHONE NO.	LABOR RATE	DELIVER DATE	REPAIR BY	NO.
07:49	10:48	2000	INTERNATIONAL 2574	231-589-6682	54.00	22DEC99	501	513
MILEAGE IN	MILEAGE OUT	LICENSE NO.						
13972	13972							

A03-550 ADJUST RIDE HEIGHT CONTROL VALVE  
LINKAGE ALL MODELS Single or Tandem  
Rear Axle All Air Suspensions

602 D.J. REED LIC#: M140077

WN 0.22

603 L.R. MCDONALD LIC#: M212110

WN 0.28

SUBTOTAL 0.50

FC: 03500

PART#:

COUNT: 264

CLAIM TYPE: D

AUTH CODE: 01

F

ADJUSTED RODS TO STOP VALVES FROM GOING OVER CENTER.

C CHECK NO BRAKES AT SLOW SPEED

CAUSE: REAR HARNESS SHORTED OUT ON DRIVE SHAFT AND R/R SENDER BAD.

A08-T1 R-R REAR HARNESS FOR REAR ABS

602 D.J. REED LIC#: M140077

WN 1.09

604 J.A. LEACH LIC#: M205914

WN 0.91

F144566

**CUSTOMER APPROVAL FOR REPAIRS  
NOT COVERED BY WARRANTY,  
POLICY, OR FIELD CHANGES**

This account is due and payable in full by the 10th of the month following purchase. Accounts past due are subject to a delinquency charge of 20.4% per annum on the outstanding balance. In the event the account is referred for collection, it is agreed that the balance due includes all collection costs including a reasonable attorney fee.

TERMS: STRICTLY CASH UNLESS ARRANGEMENTS MADE

I HEREBY AUTHORIZE THE REPAIR WORK HEREIN SET FORTH TO BE DONE ALONG WITH THE NECESSARY MATERIALS AND AGREE THAT YOU ARE NOT RESPONSIBLE FOR LOSS OR DAMAGE TO VEHICLE OR ARTICLES LEFT IN VEHICLE IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE BEYOND YOUR CONTROL OR FOR ANY DELAYS CAUSED BY UNAVAILABILITY OF PARTS OR DELAY IN PARTS SHIPMENTS BY THE SUPPLIER OR TRANSPORTER. I HEREBY GRANT YOU AND/OR YOUR EMPLOYEES PERMISSION TO OPERATE THE VEHICLE HEREIN DESCRIBED ON STREETS, HIGHWAYS, OR ELSEWHERE FOR THE PURPOSE OF TESTING AND INSPECTION. AN EXPRESS GARAGE KEEPER'S LIEN IS HEREBY ACKNOWLEDGED ON THIS VEHICLE TO SECURE THE AMOUNT OF REPAIRS THEREON. I UNDERSTAND THAT PURSUANT TO SAID EXPRESS GARAGE KEEPER'S LIEN, I HAVE NO RIGHT OF POSSESSION TO THE ABOVE VEHICLE UNTIL THE REPAIRS THEREON HAVE BEEN PAID IN FULL OR UNTIL YOU AND/OR YOUR EMPLOYEES HAVE RELEASED THE VEHICLE TO ME.

ALL PARTS INSTALLED ARE NEW UNLESS SPECIFIED OTHERWISE.

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS,OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

**STATEMENT OF DISCLAIMER**

The factory warranty constitutes all of the warranties with respect to the sale of this item/items. The Seller hereby expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose. Seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of this item/items.

CUSTOMER SIGNATURE



All repairs and parts listed were furnished in compliance with the Michigan Motor Vehicle Service and Repair Act.

X

CUSTOMER COPY

NEWAYGO COUNTY ROAD COMMISSION  
935 ONE MILE ROAD  
WHITE CLOUD, MI 49349

# WOODLAND

## INTERNATIONAL TRUCKS-MUSKEGON

274 W. Sherman Blvd. \* Muskegon, MI 49444  
(231) 733-2157 \* (800) 689-2157 \* FAX (231) 739-4277

SERVICE ADVISOR **JAMES MCCLAIN**

DATE READY	STOCK NO.	VEHICLE IDENTIFICATION	CUST. NO.	TAG NO.	P.O. NO.	DATE PRINTED	INVOICE NO.	
20APR00	15JUN00	341	1HTGGAET2YH244851	13250		15JUN00	13549	
TIME IN	TIME READY	YEAR	MAKE & MODEL	TELEPHONE NO.	EST. REP. LABOR RATE	WARRANTY DATE	PREPARED BY	SA
07:49	10:48	2000	INTERNATIONAL 2574	231-689-6682	54.00	22DEC99	501	513
MILEAGE IN	MILEAGE OUT	LICENSE NO.						
13972	13972							

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL	REMARKS
SUBTOTAL	2.00			
1 3520425C91 TRNSMTR				(N/C)
1 3523774C92 HARNESS				(N/C)
12 23926 TYRAP				(N/C)
1 895493R2 GASKET				(N/C)
1 CR47697 SEAL SC				(N/C)
A04-931 REPLACE ABS WHEEL SENSOR AND/OR RETAINER R&R wheels as required and torque to spec; R&R brake drum and shoes (Rear)				(N/C)
602 D.J. REED LIC#: M140077 WN 1.30				(N/C)
A04-950 ABS DIAGNOSTICS Includes: Performing tests per Service Manual instructions. NOTE: Not for use with Replace ABS				(N/C)
602 D.J. REED LIC#: M140077 WN 0.60				(N/C)
FC: 04000 PART#: 3523774C92 COUNT: 921 CLAIM TYPE: D AUTH CODE: 01 P				

F144566

**CUSTOMER APPROVAL FOR REPAIRS  
NOT COVERED BY WARRANTY,  
POLICY, OR FIELD CHANGES**

This account is due and payable in full by the 10th of the month following purchase. Accounts past due are subject to a delinquency charge of 20.4% per annum on the outstanding balance. In the event the account is referred for collection, it is agreed that the balance due includes all collection costs including a reasonable attorney fee.

TERMS: STRICTLY CASH UNLESS ARRANGEMENTS MADE

I HEREBY AUTHORIZE THE REPAIR WORK HEREIN SET FORTH TO BE DONE ALONG WITH THE NECESSARY MATERIALS AND ADVICE THAT YOU ARE NOT RESPONSIBLE FOR LOSS OR DAMAGE TO VEHICLE OR ARTICLES LEFT IN VEHICLE IN CASE OF FIRE, THEFT OR ANY OTHER CAUSE BEYOND YOUR CONTROL OR FOR ANY DELAYS CAUSED BY UNAVAILABILITY OF PARTS OR DELAY IN PARTS SHIPMENTS BY THE SUPPLIER OR TRANSPORTER. I HEREBY GRANT YOU AND/OR YOUR EMPLOYEES PERMISSION TO OPERATE THE VEHICLE HEREIN DESCRIBED ON STREETS, HIGHWAYS, OR ELSEWHERE FOR THE PURPOSE OF TESTING AND/OR INSPECTION. AN EXPRESS GARAGE KEEPER'S LIEN IS HEREBY ACKNOWLEDGED ON THIS VEHICLE TO SECURE THE AMOUNT OF REPAIRS THEREON. I UNDERSTAND THAT PURSUANT TO SAID EXPRESS GARAGE KEEPER'S LIEN, I HAVE NO RIGHT OF POSSESSION TO THE ABOVE VEHICLE UNTIL THE MONIES THEREON HAVE BEEN PAID IN FULL OR UNTIL YOU AND/OR YOUR EMPLOYEES HAVE RELEASED THE VEHICLE TO ME.

ALL PARTS INSTALLED ARE NEW UNLESS SPECIFIED OTHERWISE.

DESCRIPTION	TOTALS
LABOR AMOUNT	
PARTS AMOUNT	
GAS, OIL, LUBE	
SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

### STATEMENT OF DISCLAIMER

The factory warranty constitutes all of the warranties with respect to the sale of this item/items. The Seller hereby expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose. Seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of this item/items.

CUSTOMER SIGNATURE



All repairs and parts listed were furnished in compliance with the Michigan Motor Vehicle Service and Repair Act.

X \_\_\_\_\_  
CUSTOMER COPY

**WOODLAND**

NEWAYGO COUNTY ROAD COMMISSION  
935 ONE MILE ROAD  
WHITE CLOUD, MI 49349

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07:49	10:48	2000	INTERNATIONAL 2574	231-689-6682	54.00	22DEC99	501	513
RELEASE IN	RELEASE OUT	LICENSE NO.						
13972	13972							

CHECK ALL BRAKES SENSORS AND LINES. R-R REAR  
HA RNESS. R-R RIGHT REAR SENDER. CHECK OUT ABS  
WIT H E/Z TECH. R-R WHEEL HUBS AND CHECK  
SENSOR AND STATOR PLATES.

D\*\* CHECK ABS SENSORS AND STATOR PLATES ON  
STEER AXLE

CAUSE: THIS WAS UNDER BECAUSE NAVISTAR TECH  
CENTRAL AND BENDIX WANTED THEM CHECKED.  
BECAUSE FOR LIABILITIES.

A04-950 ABS DIAGNOSTICS Includes:

Performing tests per Service Manual  
instructions. NOTE : Not for use with  
Replace ABS

602 D.J. REED LIC#: M140077

WN 0.60

2 CR43764 SEAL SC

A04-930 REPLACE ABS WHEEL SENSOR AND/OR  
RETAINER R&R wheels as required and  
torque to spec; R&R brake drum and  
shoes (Rear

602 D.J. REED LIC#: M140077

WN 0.80

A04-930 REPLACE ABS WHEEL SENSOR AND/OR  
RETAINER R&R wheels as required and

F144566

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THE ABOVE VEHICLE UNTIL THE REPAIRS THERE TO HAVE BEEN PAID IN  
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VEHICLE TO ME.

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X \_\_\_\_\_  
CUSTOMER COPY

