



VEHICLE RECALL

IC CORPORATION RECALL # 03304
NHTSA RECALL # 03V-326

September 2003

All IC Corporation & Affiliate Companies Dealers

SUBJECT: VEHICLE RECALL
Short Hydraulic Brake Hoses

IC Corporation has mailed to the affected customers the following notice: This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. IC Corporation has decided that a defect, which relates to motor vehicle safety, exists in certain "CE" (IC) and "FE" models. The wrong hydraulic brake drop hoses from the frame to the rear axle brakes may have been installed. This defect may cause hose failure and loss of the rear axle brake system, possibly causing a motor vehicle crash without warning, potentially resulting in property damage, personal injury or death. This is considered a **safety issue**.

REASONS FOR THIS RECALL

The rubber brake lines from the frame piping to the brake calipers on both sides of the rear axle may be too short to provide the proper reliability.

VEHICLES INVOLVED

The vehicles involved are the CE school bus models built from December 11, 2000 through May 22, 2003 and the FE school bus models built November 04, 2002 through April 17, 2003 with a flat floor and the 19,800 pound 2-stage vari-rate spring suspension.

ACTIONS REQUIRED

Advise the operators of the subject vehicles of this defect. If the operator detects any of the following brake operating abnormalities, the vehicle should be placed out of service until the repair is made.

- Extended stopping distance.
- Illumination of the brake warning light.
- Fluid leakage in the area of the subject brake hoses.

Inspect both hoses at the rear axle to determine if the correct hose is installed. See inspection procedure below. If the correct hose is installed, ask the customer to fill out the

enclosed “**AUTHORIZATION FOR RECALL SERVICE**” card by checking box # 2 “Inspected, no repair required”, sign, date and mail the card. If the correct hose is not installed, replace the hoses immediately. See repair procedure.

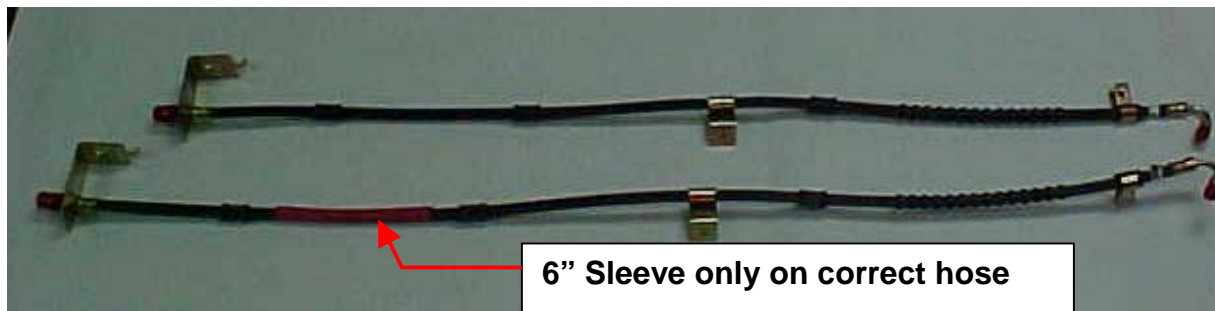
INSPECTION PROCEDURE



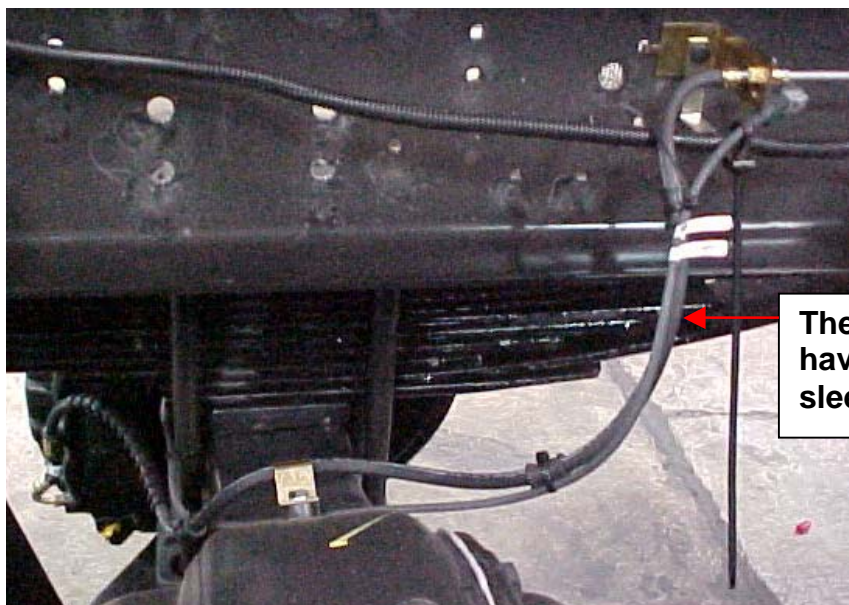
WARNING:

BLOCK THE WHEELS TO PREVENT THE VEHICLE FROM MOVING. IF A VEHICLE MOVES UNEXPECTEDLY OR SUDDENLY, THE RESULT COULD BE SERIOUS PERSONAL INJURY OR DEATH.

The incorrect hose and the correct hose almost look the same. The correct hose has a 6-inch rubber sleeve toward the caliper end and is three (3) inches longer. Both hoses have an identification tag with the part number of the hose. The correct hose has part number 3545999C92 and the incorrect hose has part number 3538974C93. If the part number is not readable and the hose does not have the 6-inch rubber sleeve, the hose is too short and must be replaced.



Picture shows both the correct hose on the bottom and the incorrect hose on top.



Picture shows typical hose routing and clipping. Hose shown is the hose used for buses without flat floor and does not have the 6-inch red sleeve.

REPAIR PROCEDURE

The customer was told that their dealer would make this correction for them at no cost and to contact their dealer to make the arrangements to repair the unit. They were also told, "If you desire to make this repair yourself, you may purchase the parts from the dealer."



WARNING:

TO PREVENT SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN YOU PERFORM VEHICLE MAINTENANCE OR SERVICE.



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WARNING:

IF THE VEHICLE MUST BE RAISED, DO NOT WORK UNDER A VEHICLE SUPPORTED ONLY BY JACKS. JACKS CAN SLIP OR FALL OVER, POTENTIALLY RESULTING IN SERIOUS PERSONAL INJURY OR DEATH.

This repair procedure involves replacing the two brake hoses at the rear axle and bleeding the brakes.

1. Remove the ties that secure the sensor wiring to the hose.
2. Remove the clipping mounting hardware at the axle and the frame.
3. Place a container under the brake line to catch the fluid as you disconnect the hose. Observe the routing and clipping location of the hydraulic hose to assist in installing the new hose.
4. Remove the old hose and replace it with the new hose and torque to 7.5 - 15 Lb-Ft (10-20 NM) at both connections. Be careful when connecting hydraulic brake hose/line fittings to avoid damage from cross-threading or over tightening.
5. Reinstall the hardware for mounting the clipping to the axle and frame.
6. Using new ties, secure the sensor wiring to the hose at the three clipping pads on the hose. See picture above for clipping.
7. Repeat this same procedure for the hose on the opposite side of the axle.
8. Refill the reservoir with new DOT3 brake fluid.
9. Bleed the complete system, top-off the reservoir and tighten the reservoir cap.

CHECKING THE BRAKE SYSTEM:

1. With the ignition in the OFF position, apply the brake pedal and verify that the Electric Motor Back-up Pump is operating (should be audible).
2. With the ignition key ON and the engine NOT Running, observe that the Electric Motor Back-up Pump is operating and BRAKE PRESS light is on.

3. With the engine running, depress the brake pedal with sufficient force until a "hard pedal" is felt and hold this position for 10 seconds. Repeat this procedure three times.
4. Check the brake hose connections for leaks. If any leak or other abnormality is observed, repair before operating the vehicle.
5. Remove chocks from wheels.

LABOR:

Labor Operation Number	Description	Time (Hours)
A40-03304-1	Inspection Only, No Repair Required	0.4
A40-03304-2	Inspect, R&R 2 Brake Hoses and Bleed System	1.6

PARTS:

<u>PART NUMBER</u>	<u>PART DESCRIPTION</u>	<u>QUANTITY</u>
3545999C92	Brake Hose Assembly	2

Dealers should purchase the parts directly from the Parts Depot. When filing your labor charges, you may add up to \$3.00 per unit for brake fluid.

ADMINISTRATIVE/DEALER RESPONSIBILITIES (U.S. & POSSESSIONS)

Proceed immediately to make the necessary corrections to the units in your inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer, or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and/or Authorization for Recall Service cards for those vehicles, the transfer location or the customer must be notified from your dealer location.

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle which is subject to a vehicle recall campaign must be adequately repaired within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within 60 days after a tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to replacement with an identical or reasonable equivalent vehicle at no charge, or to a refund of the purchase price less a reasonable allowance for depreciation.

To avoid having to replace an owner's vehicle or refund the purchase price, every effort must be made to promptly schedule an appointment with each owner to repair the affected vehicle as soon as possible.

POSSIBLE CUSTOMER REIMBURSEMENT

There may be an occasion when a customer was charged for repairs related to this recall prior to the recall being released. The customer letter contains a statement for the customer to contact the Dealer if they believe they are entitled to reimbursement costs. The Dealer should follow the Customer Reimbursement guidelines in Warranty Policy

Letter 03-001G. The Warranty Procedures and Administrative Policies manual (CTS1100) is in the process of being updated to include the information in Policy Letter 03-001G.

RECALL CLAIMS – Repairs Performed By Authorized Dealers

Refer to the Dealer's Policy Manual for procedures to conduct Recall Campaigns. It is important that the Recall Coding be completed properly to assist in processing the recall claim. Complete instructions will be found in the Warranty Manual, Section 7-1.

Special attention should be given to items 39 through 44.

GROUP	NOUN	C	WARR	TP	PAD
0 3 3 0 4		2	40	P	100

GROUP Enter Recall Number _____

NOUN Leave Blank. _____

C (CAUSE) Enter either 1, 2, or 3.
1. Inspected (No repair required).
2. Inspected and repaired.
3. Defective part from parts stock.

WARRANTY (Warranty Code) Enter 40. _____

TYPE PART Enter P for type part causing failure. _____

PAD Enter 100 _____

ADMINISTRATIVE/DISTRIBUTOR RESPONSIBILITY (EXPORT)

Proceed immediately to make the necessary correction to the units in your inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer, or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or the customer must be notified from your distributor location.

Export locations are to submit warranty claims in the usual manner making reference to Safety Recall 03304.

LESSOR RESPONSIBILITY:

Federal Regulations require that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

IC Corporation asks for your full cooperation and follow-up to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.