

# ***SERVICE PROCEDURE***

**G-07513  
DECEMBER 2007**

**SUBJECT: SAFETY RECALL (U.S., EXPORT)  
RUBBER DROP HOSE assemblies on certain FE school  
and commercial buses built 3/29/2007 thru 8/28/2007.**

## **DEFECT DESCRIPTION**

The routing of the service and parking brake rubber drop hoses to the rear axle's brake components may bring them too close to the exhaust tail pipe. The rubber hoses may melt if routed too close to the tail pipe causing either of two possibilities:

- 1) An air leak on the parking brake hose may cause the parking brakes to slowly apply while depleting both the primary and secondary air circuits.

Even though the air pressure gauge and low air pressure warning buzzer would give ample warning to a driver, these conditions could cause the vehicle to slow down or stop unexpectedly which may contribute to a vehicle crash possibly causing property damage, personal injury or death.

- 2) An air leak on a service brake hose may result in extended stopping distances while also depleting the primary air tank.

An extended stopping distance can happen without prior warning to the driver and may contribute to a vehicle crash possibly causing property damage, personal injury or death.

## **MODELS INVOLVED**

This Safety Recall involves certain RUBBER DROP HOSE assemblies on certain FE school and commercial buses built 3/29/2007 thru 8/28/2007 with air brakes and rear exit exhaust systems.

## **PARTS INFORMATION**

***PLEASE PERFORM THE INSPECTION PROCEDURE TO DETERMINE IF PARTS  
ARE REQUIRED.***

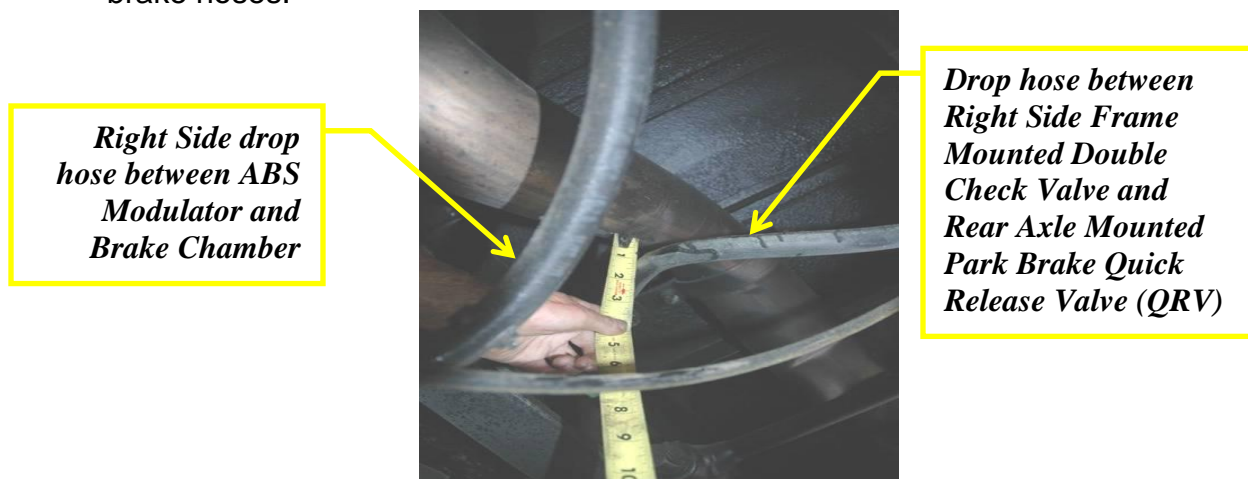
| <b>Part Number</b> | <b>Part Description</b>   | <b>Quantity</b> |
|--------------------|---------------------------|-----------------|
| <b>8900206R91</b>  | KIT,RCL SVC BRK HOSE ASSY | <b>1</b>        |

## INSPECTION PROCEDURE

|   |  |
|---|--|
| <div data-bbox="203 378 308 472"></div> <div data-bbox="457 279 643 315"><b><u>WARNING</u></b></div> <div data-bbox="355 338 745 512"><p><i>TO AVOID SERIOUS EYE INJURY, ALWAYS WEAR SAFE EYE PROTECTION WHEN YOU PERFORM VEHICLE MAINTENANCE OR SERVICE.</i></p></div> | <div data-bbox="982 279 1167 315"><b><u>WARNING</u></b></div> <div data-bbox="787 338 1364 512"><p><i>TO AVOID PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH WHEN SERVICING THE VEHICLE, PARK ON A FLAT LEVEL SURFACE, SET THE PARKING BRAKE, SHUT THE ENGINE OFF AND CHOCK THE WHEELS.</i></p></div> |
|---|--|

Perform the following inspection to determine if further action is necessary:

- 1 ***Air Suspension:*** Inspect both the parking brake ***and*** right side (passenger) service brake hose and their proximity to the exhaust tail pipe.
- 2 ***Spring Suspension:*** Inspect the right side (passenger) service brake hose and its proximity to the exhaust tail pipe.
- 3 Measure the distance from the tail pipe to the rubber park brake and service brake hoses.



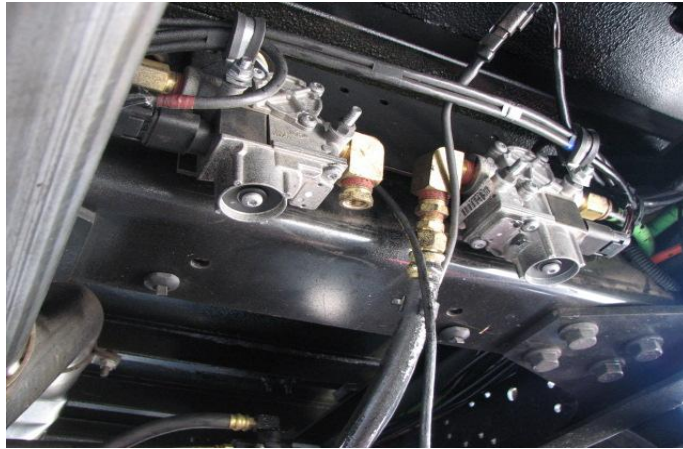
**Figure 1 – Air Suspension Shown**

- 4 If the distance from the outer surface of the tail pipe to the outer surface of *either* rubber hose is **less** than **4" (102mm)**, skip to step 6. Figure 1 represents a condition requiring further action for both hoses.
- 5 If the distance from the outer surface of the tail pipe to the outer surface of *both* the rubber hoses is **greater** than **4" (102mm)**, *no further action is necessary*. Please check box "1" on the enclosed green card and drop it in the mail. Thank you.

## **END OF INSPECTION PROCEDURE**

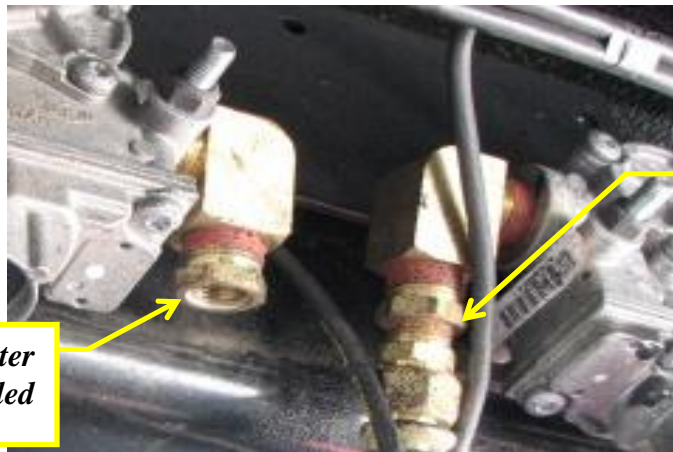
## **SERVICE PROCEDURE**

- 6 **All Suspensions:** Remove and discard the rubber drop hose from the right (passenger) side ABS Modulator valve and brake chamber. Be sure to keep the hose separators and wire clips, they will be reused in step 11.



**Figure 2 – ABS Modulator Looking Rearward**

- 7 **All Suspensions:** Remove the hose adapter from the ABS Modulator valve. It will be re-used in step 9.

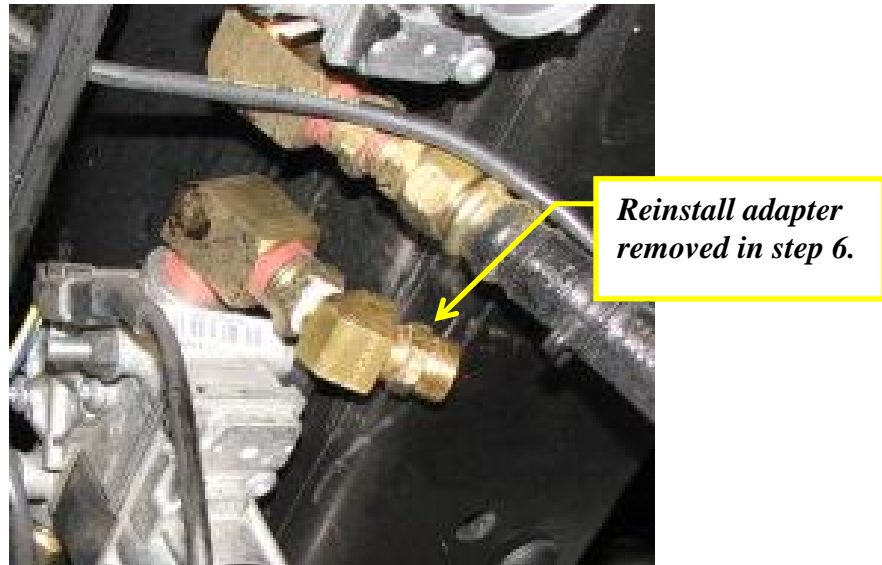


*Keep this adapter  
installed*

*There are 2 adapters  
between the hose and  
the 90° fitting. Only  
remove the adapter  
that was originally  
connected to the hose.  
Left side shown for  
REFERENCE.*

**Figure 3 – Remove Hose Adapter**

- 8 **All Suspensions:** Clean the threads of the ABS Modulator and park brake chamber.
- 9 **All Suspensions:** Install a 45° fitting (included in the kit) into the ABS Modulator. Be sure to use a suitable thread sealant tape to properly seal the threads. Clock the fitting directly rearward. Install the adapter removed in step 6 into the elbow.



**Figure 4**

- 10 **All Suspensions:** Install a 45° fitting (included in the kit) into the brake chamber, clocking it forward.



**Figure 5**

- 11 **All Suspensions:** Install the 29" long rubber drop hose and re-install the hose separators and wire clips. Ensure hose is at least 4" (102mm) from the outer surface of the tailpipe.

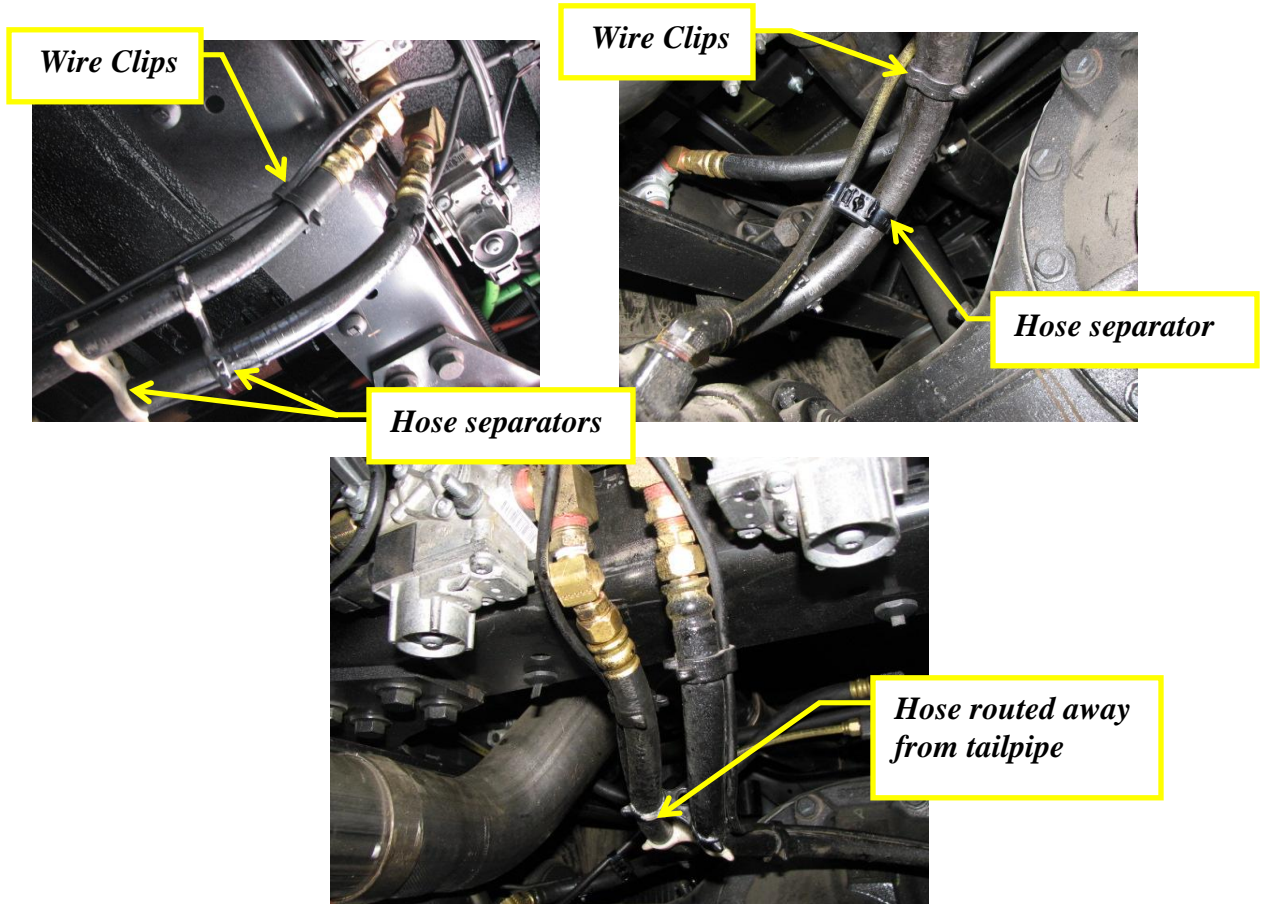


Figure 6 – Routing and Clipping of Service Brake Drop Hose

- 12 **Air Suspension ONLY:** Remove the rubber drop hose between the frame mounted double check valve and the axle mounted park brake quick release valve.

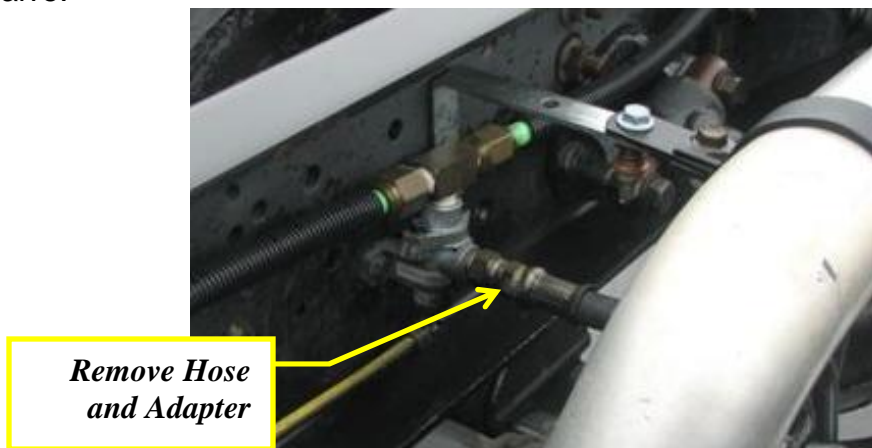


Figure 7



- 13 **Air Suspension ONLY:** Install the final 45° fitting from kit into the double check valve, clocking it downward.

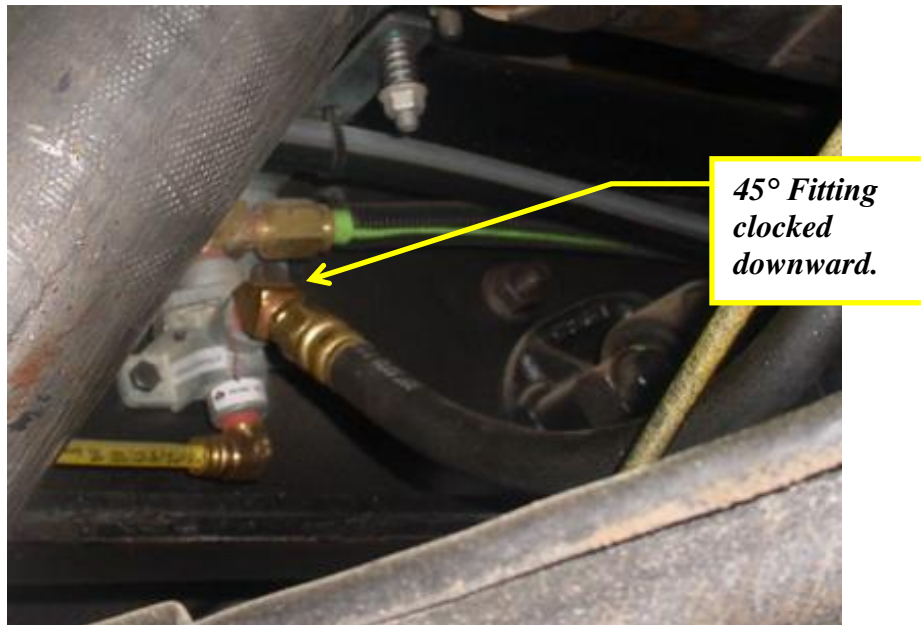


Figure 8

- 14 **Air Suspension ONLY:** Install the 24" long rubber drop hose and re-install the hose separators and wire clips. Ensure hose is at least 4" (102mm) from the outer surface of the tailpipe.

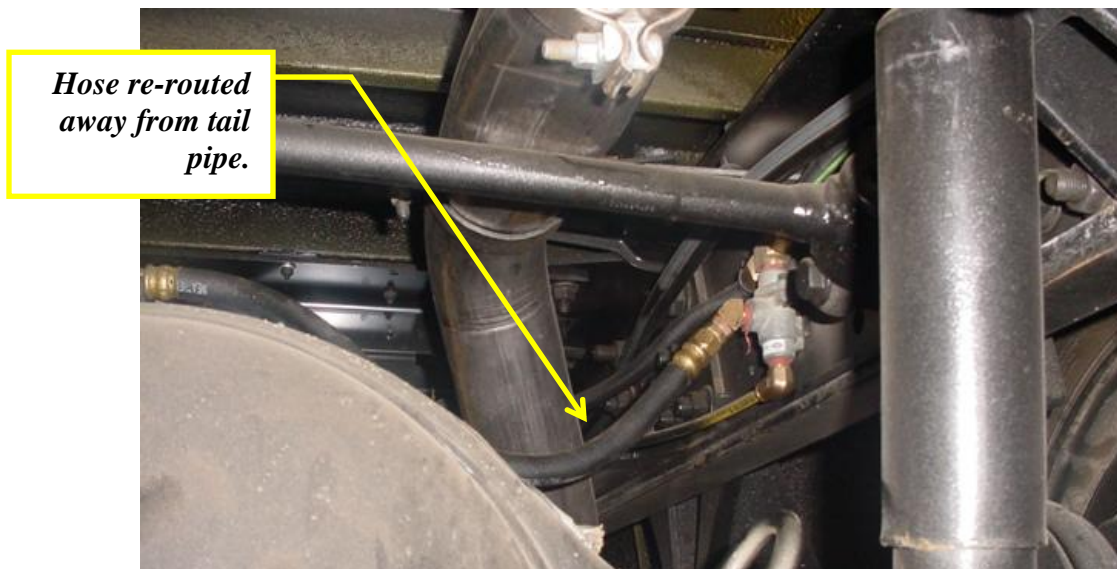


Figure 9

15 Pressurize air hoses by repeatedly depressing the brake pedal and releasing the park brake to check for leaks and repair, re-tighten connections as necessary.

## END OF SERVICE PROCEDURE

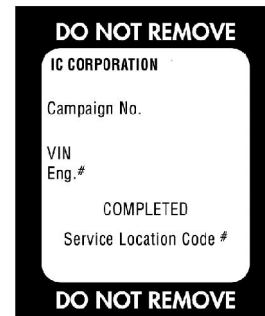
### LABOR INFORMATION

| <u>Operation No.</u> | <u>Description</u>                               | <u>Time</u> |
|----------------------|--|-------------|
| A40-07513-1          | <i>Inspection only, No Corrections Necessary</i> | 0.2 hr      |
| A40-07513-2          | <i>Replace/Re-route Air Brake Drop Hoses</i>     | 0.6 hr      |

### CAMPAIGN IDENTIFICATION LABEL

*Each vehicle corrected in accordance with this campaign **must be** marked with a S00109 Campaign Identification Label.*

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

A black and white image of a campaign identification label. The label is rectangular with a black border. At the top, it says "DO NOT REMOVE" in white capital letters. Below this, it says "IC CORPORATION" in black capital letters. Underneath, there are two lines of text: "Campaign No." and "VIN Eng.#". In the center, it says "COMPLETED" in black capital letters. Below that, it says "Service Location Code #". At the bottom, it says "DO NOT REMOVE" in white capital letters.

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

Proceed immediately to make necessary correction to units in 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 customer must be notified **IMMEDIATELY** from your dealer location.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward. The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that 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.

However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date. To avoid having to replace an

owner vehicle or refund the purchase price, every effort must be made to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible.

During the recall process, a listing of owner names and addresses will be furnished to the involved dealers to enable dealers to follow up with owners and have the vehicles corrected. You must limit the use of this listing to this campaign because the list may contain information obtained from state motor vehicle registration records and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

## **WARRANTY CLAIMS**

Refer to Dealer Warranty Manual for procedures to conduct Recall Campaigns.

It is important that the Recall Coding be completed properly to assist in processing the warranty 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           |
|-----------------------|------------------|---|------------------------------------|--|---------------|
| GROUP Enter number G— | NOUN Leave blank | C (CAUSE) Enter either 1, 2, 3. (see below) | WARRANTY (Warranty Code) Enter 40. | TYPE PART Enter P for type part causing failure. | PAD Enter 100 |
|                       |                  | 1. Inspected (No repair required).          |                                    |  |               |
|                       |                  | 2. Inspected and repaired.                  |                                    |  |               |
|                       |                  | 3. Defective part from parts stock.         |                                    |  |               |

## **ADMINISTRATIVE/DISTRIBUTOR RESPONSIBILITY (EXPORT)**

Proceed immediately to make necessary correction to units in 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 customer must be notified from your distributor location.

Export locations are to submit warranty claims in the usual manner making reference to this Recall number.

We ask 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.

## **INTERNATIONAL TRUCK AND ENGINE CORPORATION**