

# VEHICLE RECALL

G-05511-R2  
December 2005

**SUBJECT: SAFETY RECALL (U.S., EXPORT)  
FIFTH WHEEL AIR SLIDE CONTROL on certain  
7000 and 8000 Series Models built 10/10/2001 thru  
3/21/2005**

## **REVISION DESCRIPTION**

### ***PARTS INFORMATION***

- Changed part order cut-off date from 7/9/2003 to **9/7/2003**.

## **DEFECT DESCRIPTION**

The electrically controlled MSVA 7-pack can experience water contamination of the circuit board, possibly resulting in inadvertent operation of the fifth wheel slide control. If the fifth wheel slide control actuates while the vehicle is in transit, momentum from the trailer can cause the fifth wheel to slide without input from the driver, which may result in **a vehicle crash without warning**, possibly resulting in **property damage, personal injury or death**.

## **MODELS INVOLVED**

This Safety Recall involves 7400, 7500, 7600, 7700, 8500, and 8600 models built between 10/10/2001 and 3/21/2005 with air operated sliding fifth wheels.

## **PARTS INFORMATION**

The parts required for this recall are:

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>
<b>8900166R91</b>	Recall Service Kit, 7-Pack Relocation Hardware for 8600	1 each for 8600 models only. <b>DO NOT USE FOR OTHER MODELS</b>
<b>3554554C1</b>	Guide, Bracket, Hose and Cable Swivel	4 to 6 as necessary for 8600's with "D" Style Fuel Tanks
<b>306132C1</b>	Strap, Cable Lock	As necessary for 8600's with "D" Style Fuel Tanks

**Please refer to the following chart to determine the proper 7-pack assembly for each vehicle.**

The owners were asked to provide you certain features of their vehicles to aid in your selection of the correct part. Please refer to the customer letter on ISIS and the vehicle lineset ticket if necessary.

**Please order the following parts for vehicles built *ON OR AFTER 9/7/2003*.**

<b>Part Number</b>	<b>Description</b>	<b>Required Features (Use Owner Information or Lineset Ticket to verify Vehicle Features for Proper Kit Selection)</b>	<b>QTY</b>	<b>Suspect Population Percent Usage (%)</b>
<b>8900157R91</b>	KIT - 5TH, DCLD, PDL, FRTAIRSPG, PTO, HORN	-5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Divider Lock (PDL) -Front Air Suspension Dump -Power Take Off (PTO) -Air Horn	1	There is only one (1) vehicle in this campaign that gets this kit. <i>Do not order unless you have verified the features.</i>

<b>Part Number</b>	<b>Description</b>	<b>Required Features (Use Owner Information or Lineset Ticket to verify Vehicle Features for Proper Kit Selection)</b>	<b>QTY</b>	<b>Suspect Population Percent Usage (%)</b>
<b>8900158R91</b>	KIT - 5TH, DCLD, PDL, PTO, HORN	-5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Divider Lock (PDL) -Power Take Off (PTO) -Air Horn	1	There are only three (3) vehicles in this campaign that get this kit. <i>Do not order unless you have verified the features.</i>
<b>8900159R91</b>	KIT - 5TH, DCLD, PDL, PTO, HORN, SUSPDMP	-5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Divider Lock (PDL) -Power Take Off (PTO) -Air Horn -Rear Suspension Dump	1	There are about forty-three (43) vehicles in this campaign that get this kit. <i>Do not order unless you have verified the features.</i>
<b>8900160R91</b>	KIT - 5TH, DCLD, PDL, HORN, SUSPDMP	-5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Divider Lock (PDL) -Air Horn -Rear Suspension Dump	1	About 3% (~150) of the vehicles in this campaign need this kit. <i>Do not order unless you have verified the features.</i>
<b>8900161R91</b>	KIT - 5TH, DCLD, PDL, SUSPDMP	-5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Divider Lock (PDL) -Rear Suspension Dump	1	There are only five (5) vehicles in this campaign that get this kit. <i>Do not order unless you have verified the features.</i>
<b>8900162R91</b>	KIT - 5TH, DCLD, PTO, HORN, UNIVAIR	-5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Take Off (PTO) -Air Horn -Universal Air Port (Body Builder Control)	1	There is only one (1) vehicle in this campaign that gets this kit. <i>Do not order unless you have verified the features.</i>
<b>8900163R91</b>	KIT - 5TH, DCLD, HORN, SUSPDMP	-5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Air Horn -Rear Suspension Dump	1	There are only fifteen (15) vehicles in this campaign that get this kit. <i>Do not order unless you have verified the features.</i>

<b>Part Number</b>	<b>Description</b>	<b>Required Features</b> <i>(Use Owner Information or Lineset Ticket to verify Vehicle Features for Proper Kit Selection)</i>	<b>QTY</b>	<b>Suspect Population Percent Usage (%)</b>
<b>8900164R91</b>	KIT - 5TH, PDL, PTO, HORN, SUSPDMP	-5 <sup>th</sup> Wheel Slide -Power Divider Lock (PDL) -Power Take Off (PTO) -Air Horn -Rear Suspension Dump	1	There is only one (1) vehicle in this campaign that gets this kit. <i>Do not order unless you have verified the features.</i>
<b>8900165R91</b>	KIT - 5TH, PDL, HORN, SUSPDMP	-5 <sup>th</sup> Wheel Slide -Power Divider Lock (PDL) -Air Horn -Rear Suspension Dump	1	Roughly 96% (~5000) of the vehicles in this campaign will need this kit. <i>Please order a small amount to keep on hand.</i>

**Please order the following parts for vehicles built BEFORE 9/7/2003.**

<b>Part Number</b>	<b>Description</b>	<b>Required Features (Use Owner Information or Lineset Ticket to verify Vehicle Features for Proper Kit Selection)</b>	<b>QTY</b>	<b>Suspect Population Percent Usage (%)</b>
<b>8900154R91</b>	KIT - SUSP, 5TH, DCLD, PDL, PTO, HORN	-Air Suspension Dump -5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Divider Lock (PDL) -Power Take Off (PTO) -Air Horn	1	There are only two (2) vehicles in this campaign that gets this kit. <i>Do not order unless you have verified the features.</i>
<b>8900155R91</b>	KIT - SUSP, 5TH, DCLD, PDL, HORN	-Air Suspension Dump -5 <sup>th</sup> Wheel Slide -Driver Controlled Locking Diff (DCLD) -Power Divider Lock (PDL) -Air Horn	1	There are about forty-one (41) vehicles in this campaign that get this kit. <i>Do not order unless you have verified the features.</i>
<b>8900156R91</b>	KIT - SUSP, 5TH, PDL, HORN	-Air Suspension Dump -5 <sup>th</sup> Wheel Slide -Power Divider Lock (PDL) -Air Horn	1	There are about nineteen (19) vehicles in this campaign that get this kit. <i>Do not order unless you have verified the features.</i>

The recall service kit **8900166R91** contains the following parts:

<b>Part Number</b>	<b>Part Description</b>	<b>Quantity</b>
<b>5-16X2 L</b>	BOLT, 5/16 X 2 TYPE 5 (180087)	2
<b>25077R1</b>	NUT, 5/16 PHC P/T LOCK TYPE 5	2
<b>120393</b>	WASHER, .344 X .688 X .051	6
<b>24497R1</b>	WASHER, .344 X 1.250 X .105 ZN	1
<b>2024446C1</b>	FITTING, ELBOW PUSH TO CONNECT 3/8" TUBE X 3/8" STEM	1
<b>2024440C1</b>	FITTING, ELBOW PUSH TO CONNECT 1/4" TUBE X 1/4" STEM	1
<b>3572234C2</b>	CLIP, EXTENSION	1
<b>3544557C1</b>	STRAP, CABLE LOCK 382 MM	1
<b>291207C1</b>	STRAP, CABLE LOCK	15

**Discard all removed parts locally.**

## **SERVICE PROCEDURE**



**WARNING:**

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



**WARNING:**

*TO PREVENT UNEXPECTED MOVEMENT OF THE VEHICLE AND POSSIBLE SERIOUS PERSONAL INJURY OR DEATH, PARK THE VEHICLE ON A FLAT, LEVEL SURFACE, SET THE PARKING BRAKE, TURN THE ENGINE OFF, AND CHOCK THE WHEELS TO PREVENT THE VEHICLE FROM MOVING IN BOTH DIRECTIONS.*

## **SERVICE PROCEDURE**

**NOTE: ALL UNITS INVOLVED IN THIS RECALL REQUIRE REPLACEMENT OF THE 7-PACK.**

**ONLY 8600 MODELS REQUIRE THE RELOCATION IN-ADDITION TO THE REPLACEMENT.**

**8500 AND 7000 SERIES MODELS ONLY REQUIRE REPLACEMENT OF THE 7-PACK.**

### ***All Vehicles -- Driver's Side (Left Side) Fuel Tank Removal***

1. Remove **driver's** side fender extension.
2. Remove **driver's** side valance panel.

3. Drain driver's side fuel tank and disconnect fuel hosing and electrical connectors when empty.

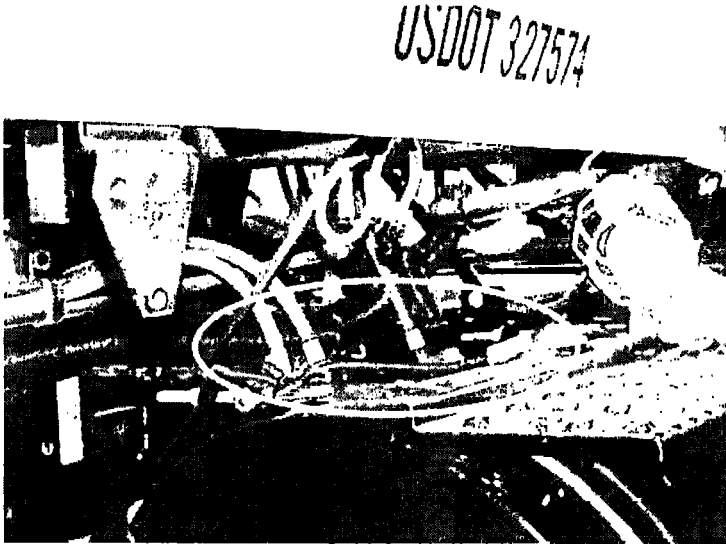


Figure 1

4. Remove the indicated fasteners on each fuel tank mounting bracket.

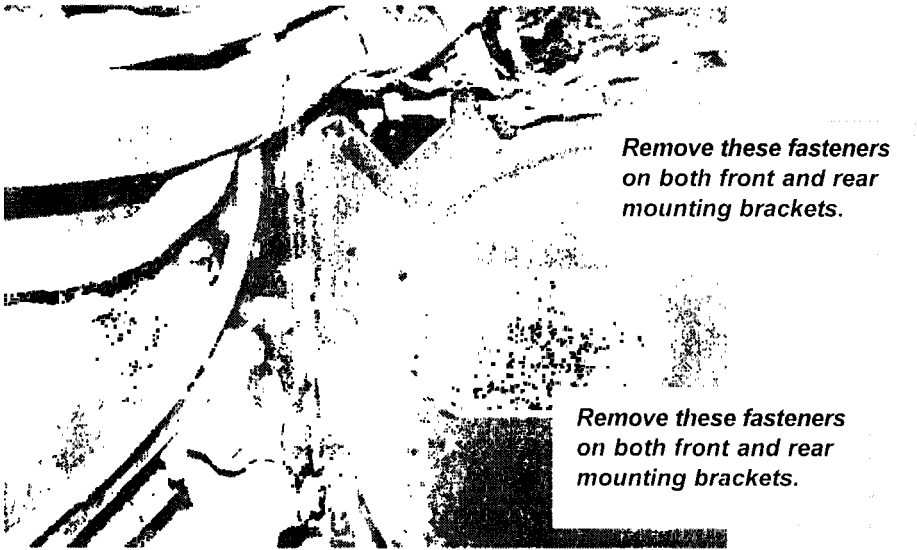
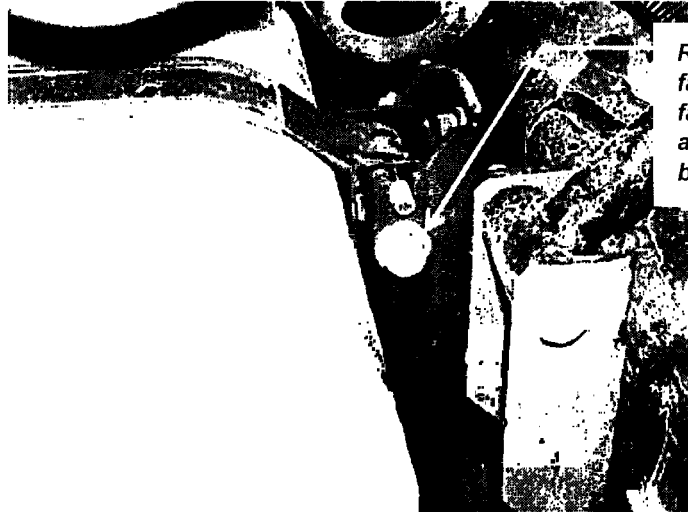


Figure 2a – Round Tanks



*Remove this upper fastener and the lower fastener on both front and rear mounting brackets.*

**Figure 2b – “D” Style Tanks**

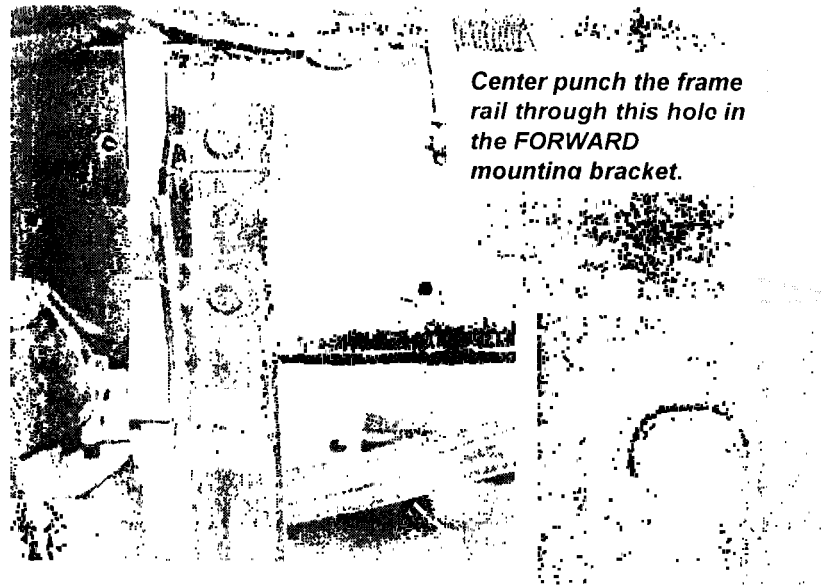
5. Use a suitable jacking device to lift fuel tank out of mounting brackets. Store fuel tank away from immediate work area.



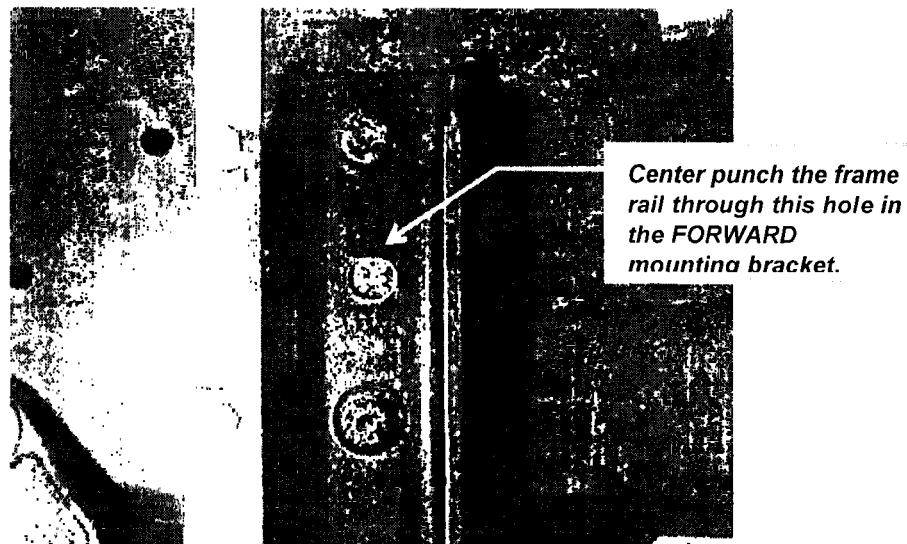
**Figure 3**

***For 7000'S and 8500'S skip to STEP 15. No assembly relocation or drilling is required for these models.***

6. Locate the center hole in the forward fuel tank mounting bracket. Use a center punch to make a drill mark in this hole.

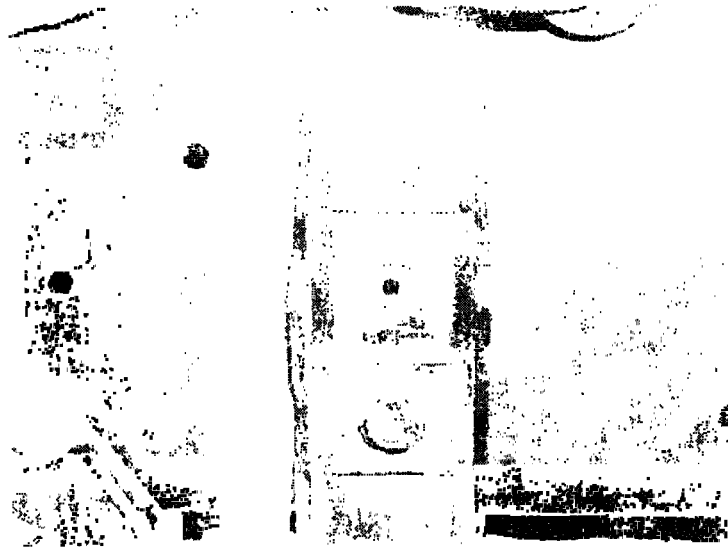


**Figure 4a – 8600 Round Tanks**



**Figure 4b – 8600 "D" Tanks**

7. Using a 25/64" (10mm) drill bit, drill a hole through the frame rail at this point.



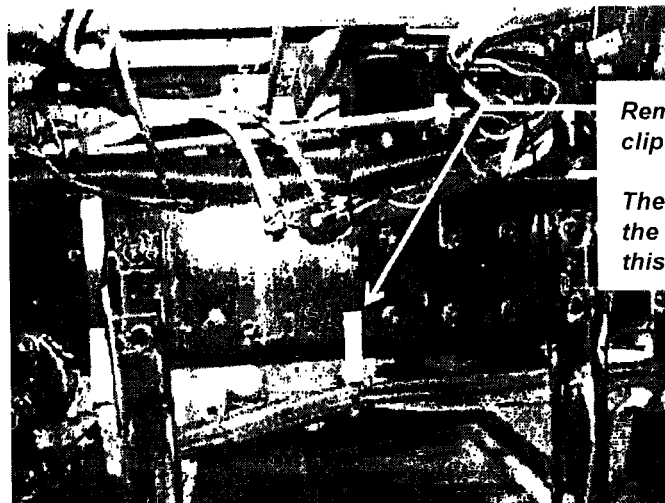
**Figure 5 – Round Tank Shown**

***On 8600 models with LEFT SIDE Mounted Battery box, follow step 8.***

***For "D" style Fuel Tanks, other battery box locations, skip to step 9.***

***For Round Fuel Tanks, other battery box locations, skip to step 13.***

8. Remove the battery cable extension clip as shown. The relocated 7-pack will share this hole with the extension clip. For Round Fuel Tanks, skip to step 19. For "D" Style Fuel Tanks, continue to step 9.



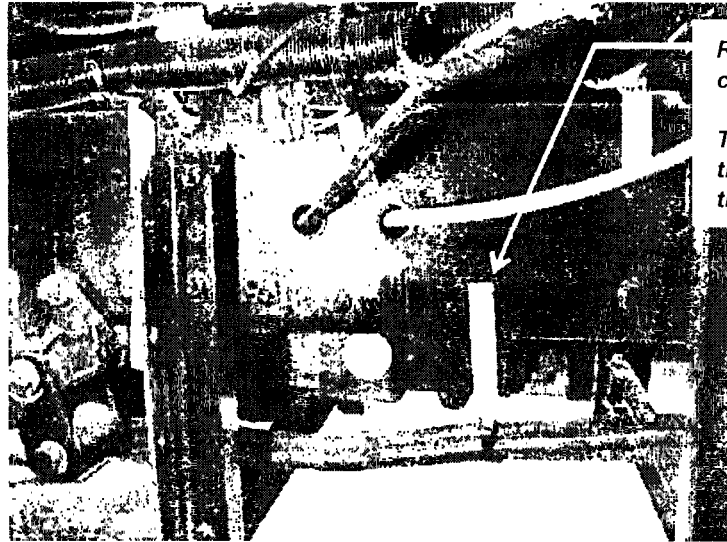
***Remove this extension clip.***

***The rear mounting of the 7-pack will share this mounting hole.***

**Figure 6 – LH Side Batt Box**

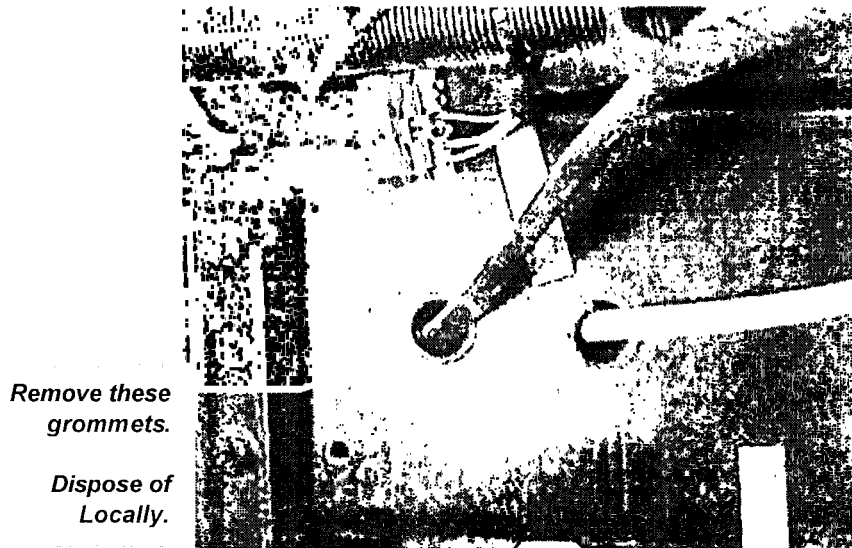
**On 8600 models with "D" style fuel tanks, the supply and return fuel lines will need to be re-routed. Please follow steps 9 thru 12 to re-route fuel lines.**

9. For LEFT SIDE mounted battery boxes, remove this extension clip.



**Figure A**

10. Slide grey and black fuel lines thru frame rail. Remove plastic grommets.



**Figure B**



**WARNING:**

*TO PREVENT FUEL LINE DAMAGE, ENSURE FUEL LINES ARE NOT KINKED OR DAMAGED DURING RE-ROUTING PROCEDURE. IF FUEL LINES ARE KINKED OR DAMAGED, THEY WILL REQUIRE REPLACEMENT BEFORE CONTINUING WITH THIS SERVICE PROCEDURE.*

11. Re-route fuel lines ABOVE the frame rail.



Figure C

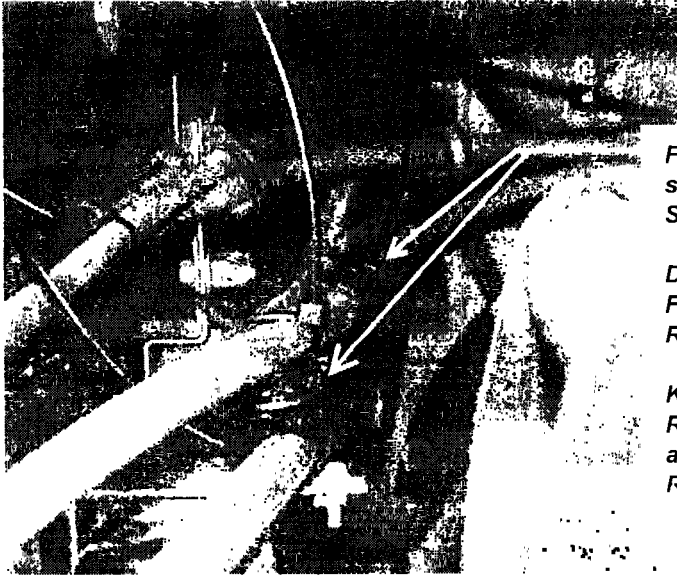


**WARNING:**

*TO PREVENT POSSIBILITY OF FUTURE FUEL SPILLAGE, ENSURE FUEL LINES ARE NOT RUBBING ON ANY METALLIC OR SHARP EDGES.*

**NOTE:** *Exact routing may differ depending on vehicle features. Ensure fuel lines pass over frame rail, but are routed such that they do not chafe on sharp or metallic edges.*

12. Use swivel saddle clamps and strap-locks to secure fuel lines to existing harnesses in several areas.

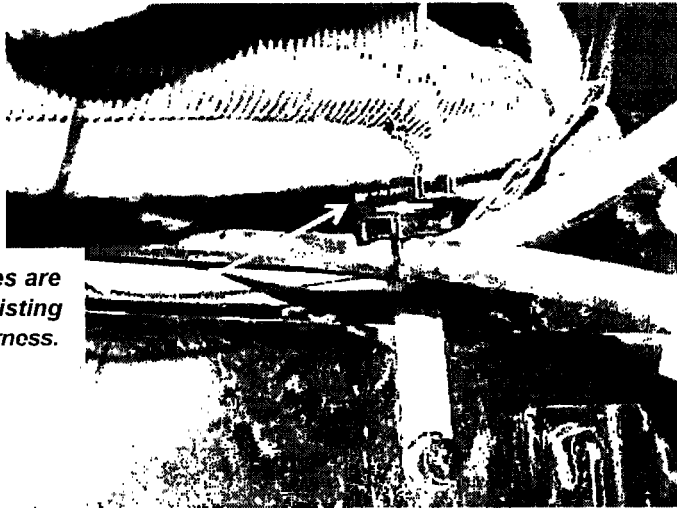


*Fuel Lines are secured to Air Dryer Supply Line.*

**DO NOT CROSS FUEL LINES WHILE ROUTING.**

**KEEP GREY LINE ROUTED INBOARD and BLACK LINE ROUTED OUTBOARD**

**Figure D**

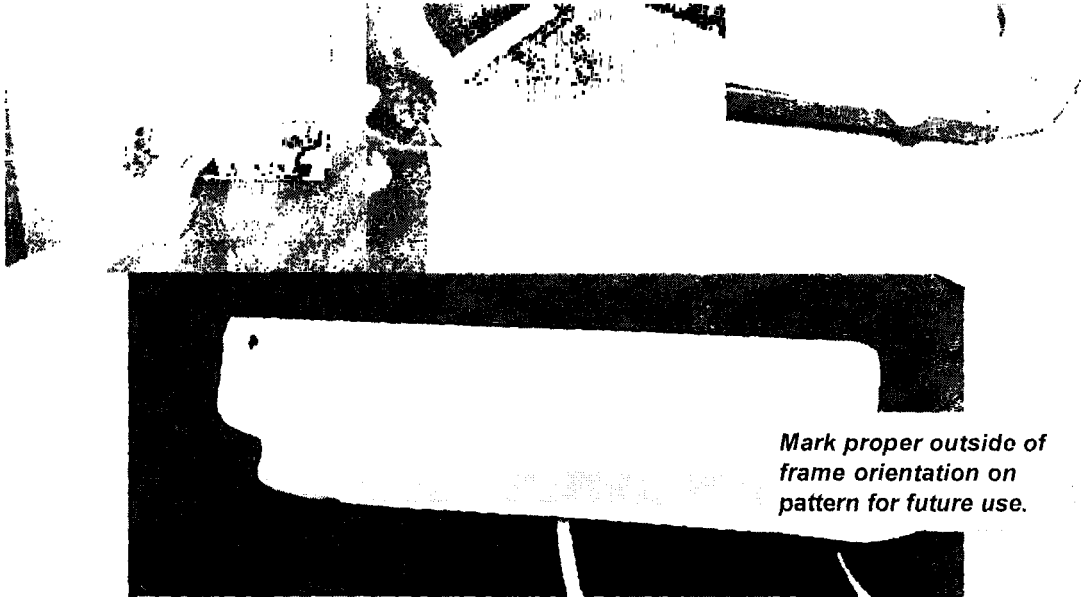


*Fuel Lines are secured to existing harness.*

**Figure E**

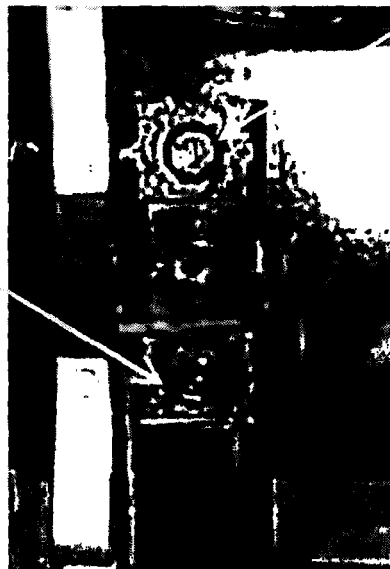
**For 8600 models WITHOUT a left side mounted battery box, follow steps 13 thru 18.**

13. To locate second hole, make a pattern out of a sturdy material using the new 7-pack assembly as a template. Mark the top side and forward side of the template for future use.



**Figure 7**

14. Remove the forward fuel tank mounting bracket's frame mounting bolts.



**Figure 8**

15. Slide the pattern between the forward fuel tank mounting bracket and the frame rail. Use a bolt to hold the template in place in the new hole. Adjust pattern such that its edges are parallel to the frame rail flanges.



**Figure 9**

16. Use a center punch to make a drill mark for the second mounting hole.
17. Remove pattern and using a  $25/64$ " (10mm) drill bit, drill a hole through the frame rail.
18. Reinstall the forward fuel tank mounting bracket frame mounting bolts. Torque to **140-175LbF-Ft** (193-237Nm).

**Old 7-Pack Removal and Installation of New 7-Pack**

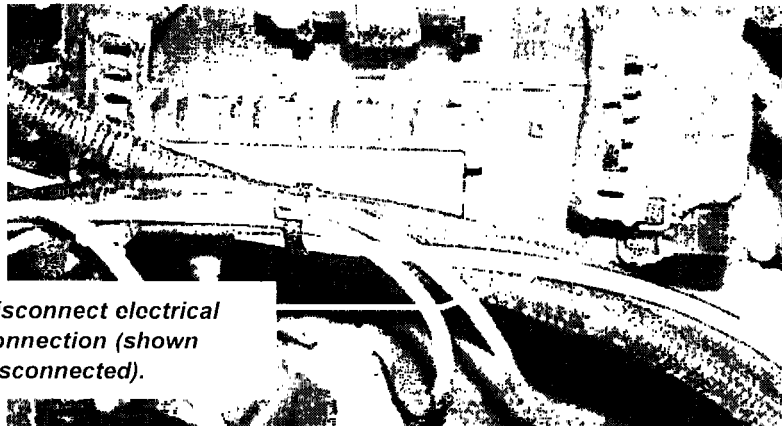
19. Open air system drain valves to drain all air from system. Ensure there is no air pressure in system before proceeding.
20. Disconnect **all** air supply lines to existing 7-pack.



*Disconnect air tubing at these locations*

**Figure 10 – 5 Solenoids Shown (8600 Model)**

21. Disconnect electrical connector to existing 7-pack.



*Disconnect electrical connection (shown disconnected).*

**Figure 11 (8600 Model Shown)**

22. Remove old 7-pack assembly from vehicle.

23. Assemble new 7-pack. Re-use all air fittings and electrical connections.

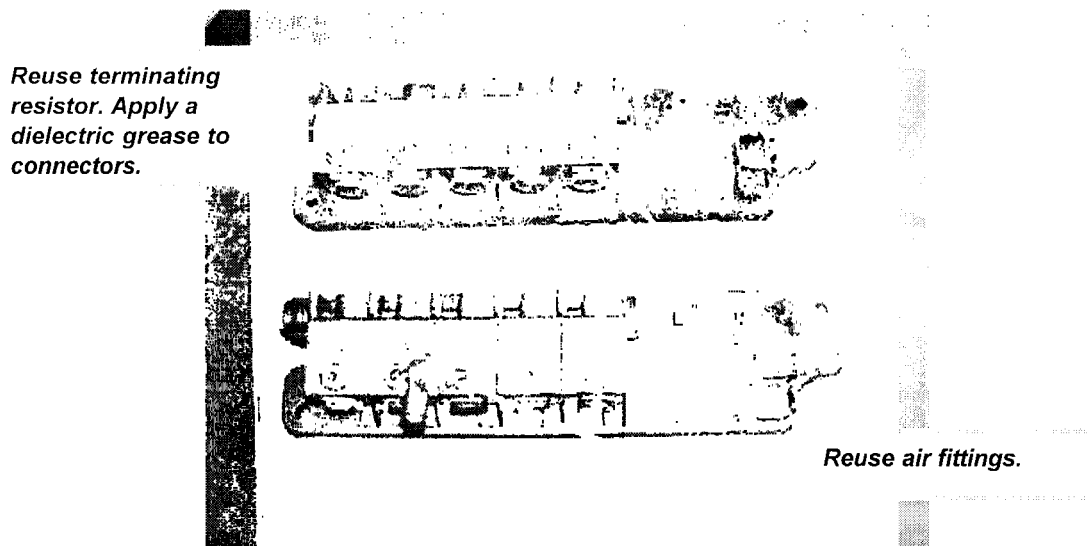


Figure 12

#### **7-Pack Installation**

***For 7000's and 8500's, skip to STEP 28. Mount new assembly in existing location. No relocation is required for these models.***

24. Mount new 7-pack assembly inside of frame rail with air supply port facing rear of vehicle. Electrical connectors will be in the forward direction.

***Bolt Heads must be installed on the OUTSIDE of the frame rail.***

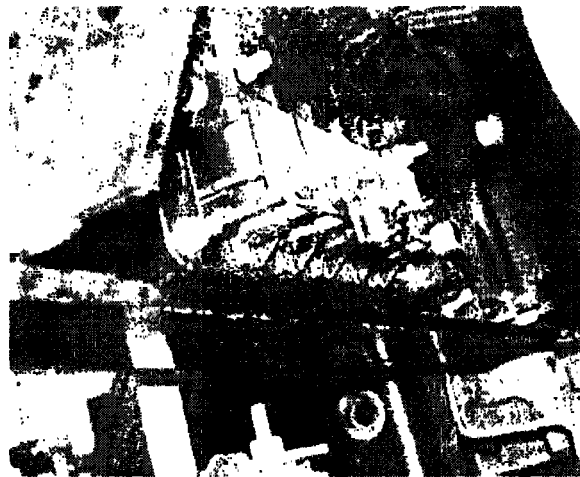


Figure 13 (8600 Model Shown)

25. Install 4 washers under head of forward bolt. This is to ensure you can get a socket on the bolt head to achieve proper torque. **(Bolt head will be on outside of frame in fuel tank mounting bracket hole.)**

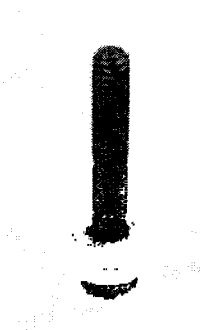


Figure 14

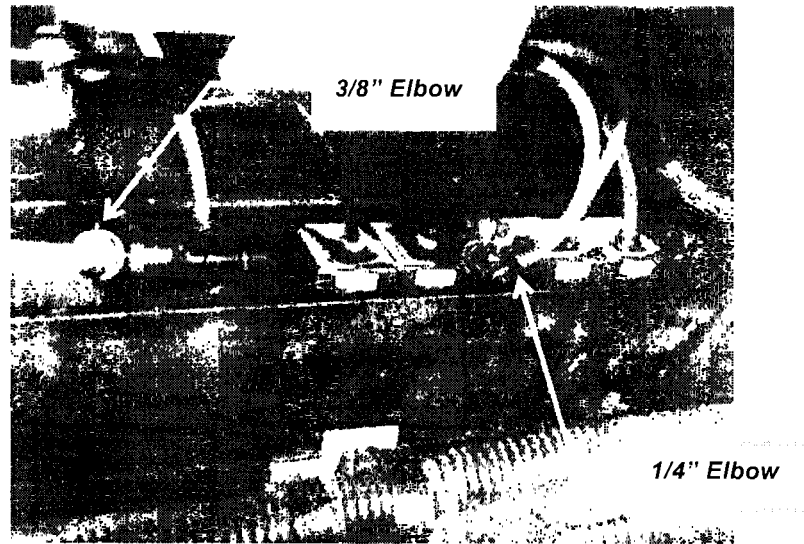
***On 8600 models with Left Side Mounted Battery box, follow step 26. For all other battery box locations, skip to step 27.***

26. Install large diameter washer under head of rear mounting bolt. Install battery cable extension clip. Skip to step 28.

***For 8600 models WITHOUT a left side mounted battery box, continue with step 27.***

27. Install rear 7-pack mounting bolt in drilled hole. Use large diameter washer between bolt head and frame rail. Continue to step 28.
28. Torque 7-pack mounting bolts to ***17-21LbF-Ft (23-29Nm)***.

29. Re-route air and electrical supply as necessary. The use of elbows (included in 8600 mounting kit) may be required to keep tubing from rubbing against sharp edges.



**Figure 15 (8600 Model Shown)**

***For 7000's and 8500's, skip to STEP 32.***

30. Remove the indicated bolt from the transmission rear cover and install extension clip and button tie strap. Torque bolts to **40-45LbF-Ft (54-61 Nm)**.

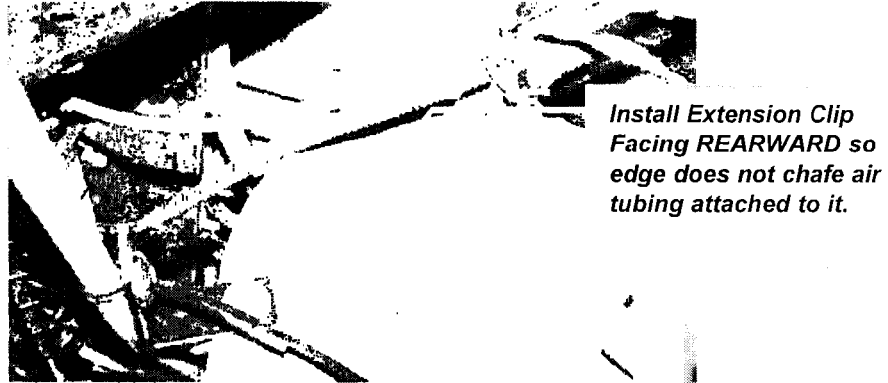


Figure 16

31. Use included tie straps to route as required. The following figures show acceptable routing. Your individual application may be slightly different.



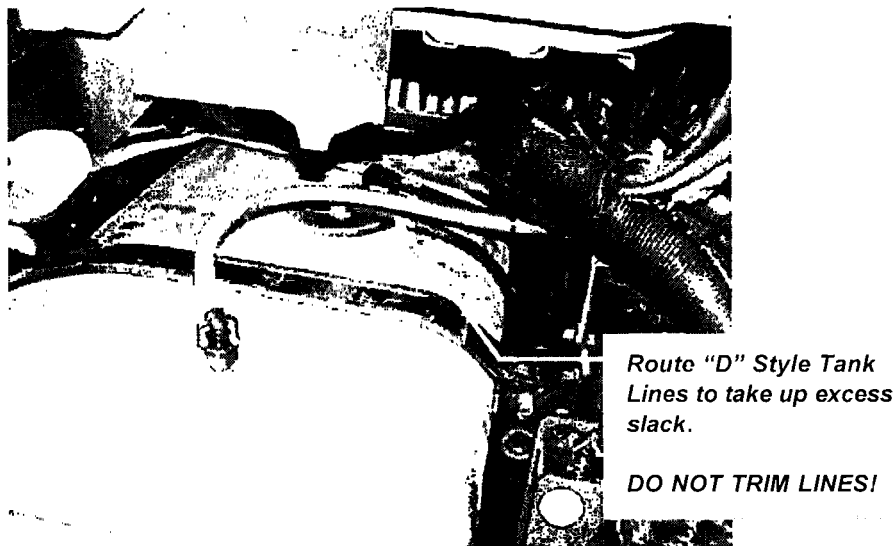
Figure 17

32. Once all air tubing and electrical connectors are hooked up, proceed to step 33.

### ***Fuel Tank Re-Installation***

33. Re-install driver's side fuel tank. Torque mounting hardware to **140-175LbF-Ft (193-237Nm)**.
34. Re-install all fuel hosing and electrical connections to fuel tank.

**NOTE: DO NOT ALTER THE LENGTH OF THE FUEL LINES ON "D" STYLE FUEL TANKS.**



**Figure 18 – "D" Tank Hose Routing**

35. Re-fill fuel tank.
36. Re-install valance panel.
37. Re-install fender extension

### ***System Functional and Leak Check***

38. Start vehicle and charge air system.
39. Cycle through all air accessory functions to determine if they are operating properly and that there are no leaks.

**END OF SERVICE PROCEDURE**

## LABOR INFORMATION

<u>Operation No.</u>	<u>Description</u>	<u>Time</u>
A40-05511-1	<i>Perform Recall Service on 8600 models with LEFT MOUNTED BATTERY BOX – ROUND FUEL TANKS</i>	1.8 hr
A40-05511-2	<i>Perform Recall Service on 8600 models NOT with left mounted battery box – ROUND FUEL TANKS</i>	2.0 hr
A40-05511-3	<i>Perform Recall Service on 7400, 7500, 7600, 7700 AND 8500 MODELS</i>	1.6 hr
A40-05511-4	<i>Special Labor Operation – Not to be used with this Service Procedure</i>	N/A
A40-05511-5	<i>Perform Recall Service on 8600 models with LEFT MOUNTED BATTERY BOX – “D” STYLE FUEL TANKS</i>	2.1 hr
A40-05511-6	<i>Perform Recall Service on 8600 models NOT with left mounted battery box – “D” STYLE FUEL TANKS</i>	2.3 hr

**EVERY VEHICLE REQUIRES THE RECALL SERVICE PROCEDURE TO BE PERFORMED.**

## CAMPAIGN IDENTIFICATION LABEL

*Each vehicle corrected in accordance with this campaign **must be** marked with a CTS-1075 Campaign Identification Label.*

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

## 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.

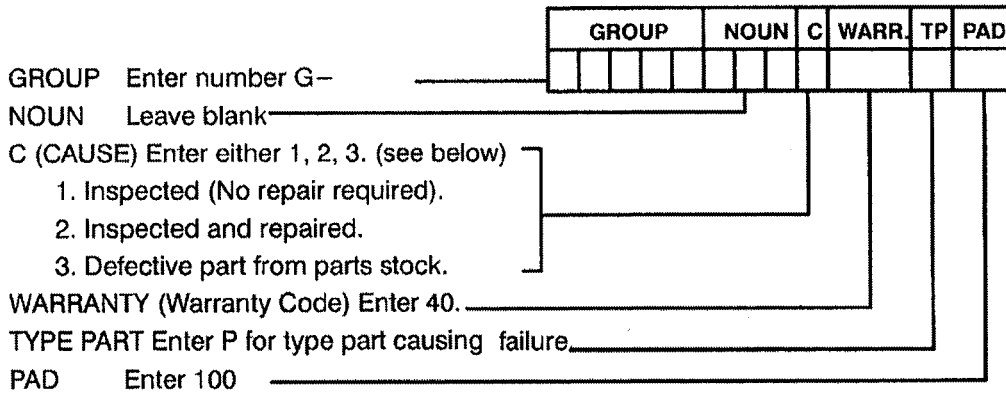
## **POSSIBLE CUSTOMER REIMBURSEMENT**

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.

## **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:



**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**