



SERVICE REPAIR PROCEDURE

Freedman Seating company 33 1/2" Barrier Foam Retro Fit			RECALL # 10V-094
BY: Jose Vazquez	DEPARTMENT: Warranty	DATE: 4/5/2010	REVISION: 1

MODEL:

2007 thru 2009 Rondak4F+9, Q86-5 and STH5 Trans Tech Bus School Buses

ISSUE:

The noncompliance involves FMVS 222 "School Bus Passenger Seating and Crash Protection" paragraphs S5.3.2 thru S5.3.2.2 Leg Protection Zone of §573.222, which requires that "when any point on the rear surface of that part of a seat back or restraining barrier within any zone specified in S5.3.2.1 is impacted from any direction at 4.9 m/s by the knee, the resisting force of the impacted material shall not exceed 2,669 N". Specifically, two points on the School Bus Barriers exceeded the maximum resisting force of 2,669 N as stated in the regulation. .

Specifically, In the event of a vehicle collision, a passenger's knee may come in contact with the rear surface of the non-complaint restraining barriers, which could result in personal injury to the occupant.

Remedy:

Transportation Collaborative Inc. will affect repairs to your vehicle by the installation of a retro fit Expanded Polystyrene Foam (FSC#52271195) to the existing barriers. The repair kit will consist of 2 rolls of 3M VHB 4941 Series double sided tape (FSC# 140416) and 2 Squares of retro fit Expanded Polystyrene Foam (FSC#52271195).

The expected out of service time necessary to affect repairs is .50 hour per Barrier, however this may vary due to dealer service scheduling requirements.

TOOLS REQUIRED

- 1- Pair of Scissors
- 2- 24" measuring Tape
- 3- Permanent Marker (optional)

PROCEDURE:

- Vehicle Preparation -

1. The ignition key must be off to perform this procedure.
2. Ensure there is adequate lighting and ventilation to perform this procedure. Additional lighting may be required to be able to properly see the repair area under certain conditions.
3. Safety Glasses must be worn.



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Directions:

- 1) It is recommended that the barrier be exposed to a minimum temperature of 65° F for three (3) hours prior to applying for tape adhesive to be effective.
- 2) Unhook the cover Velcro, taking note of how to re-hook it. **See picture 1 below**



Picture 1 – Barrier with Velcro Removed

- 3) While holding down the barrier frame, pull up on foam to remove the foam and cover as a whole, taking note of its direction.
- 4) Cut two (2) strips from the 3M VHB 4941 series double sided tape, 15" each.
- 5) Place the tape strips on the barrier plate on the side angled towards the rear seats.

The first strip 1" and the second strip 15" up from the horizontal barrier bracket, with the adhesive side facing the barrier plate. Firmly press the tape onto the barrier plate. **See Picture 2 below.**



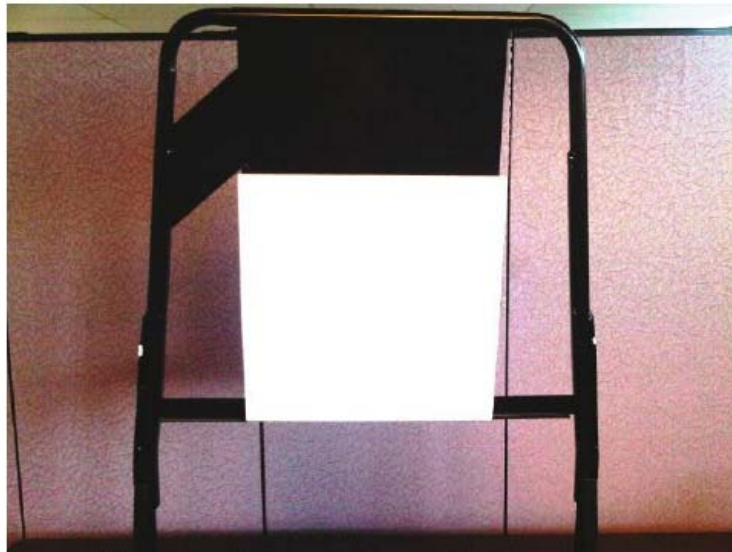
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Picture 2 – Adhesive Strip Placement

- 6) Remove the non adhesive backing from the double sided tape.
- 7) Line up the square expanded polystyrene piece with the bottom edge resting on the horizontal barrier bracket and center the square with the center of the bracket barrier plate. Marking the center line of the barrier bracket and foam will make this easier. **See *Picture 3 below.***



Picture 3 – Barrier Frame with Foam Secured



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- 8) Firmly but gently place the foam piece on the double sided tape, careful not to damage the foam piece.
- 9) Place the barrier foam and cover back over the barrier frame facing the same direction it was removed.
- 10) Re-hook the Cover Velcro the same pattern that it was unhooked.

OPERATION TIME:

.50 hrs per Barrier

WARRANTY STATUS:

Transportation Collaborative Inc. warranty coverage as applicable. Please submit claim to Transportation collaborative Inc. Attention:

Jose Vazquez
Warranty Department
Jvazquez@TransTechBus.com

Or

Transportation Collaborative Inc. Recall #10V-094
7 Lake Station Road Warwick, NY 10990
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