



SERVICE BULLETIN No.1179

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COACH MODEL	: C2045
BULLETIN TYPE	: Product Improvement
SECTION	: Section 11 – Body and accessories
DATE	: March 08, 2006
SUBJECT	: Engine compartment door insulation
TERMS & CONDITIONS	: No claims will be accepted with reference to this Bulletin.

APPLICATION:

The product improvement subject of this Bulletin has been cut into production as from Commuter Coach 47130.

DESCRIPTION:

1. The installation hardware for the insulation of the engine compartment door has been revised.
2. The plastic snap buttons securing the insulation inside the door have been replaced by four mounting strips, which are riveted to the doorframe.
This ensures lasting retention.
3. The procedure in this Bulletin shows how field coaches can be converted to the new spec.
Instructions on how to do small repairs have also been included.

PARTS AND PRODUCTS:

Old parts

VH reference	Description	Qty.
VH 10555353	Snap fastener - button	14
VH 10741805	Insulation, engine compartment door, complete set of four panels	1

Parts and products continued on next page.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

Continued from page 1.

New parts

VH reference	Description	Qty.
VH 10741805	Insulation, engine compartment door, complete set of four panels	1
VH 10672517	Insulation, engine compartment door, LH upper panel, separately	1
VH 10760610	Insulation, engine compartment door, RH upper panel, separately	1
VH 10760600	Insulation, engine compartment door, LH lower panel, separately	1
VH 10735207	Insulation, engine compartment door, RH lower panel, separately	1
VH 10957490	Strip, retaining, flat	2
VH 10957487	Strip, retaining, stepped	2
VH 660611691	Rivet, water tight, 4.8 x 17.8 mm	8
VH 660834964	Tank tape, black	#
VH 660193028	Adhesive, Sikaflex 221, black, cartridge	#

- New parts will be made available through regular channels.
- Parts and products disposition: discard according to applicable environmental regulations.

PROCEDURE:

1. General:

- This job should be executed by a technician experienced in body and trim repair.

2. Special tools, equipment or services:

- No special tools, equipment or services are required.

3. Preparations:

- Park the coach on a level surface with the front wheels straight.
- Apply the parking brake and shut down the engine.
- Switch off all systems and turn off the battery master switch.
- Put a "DO NOT OPERATE" tag on the instrument panel.
- Read the entire procedure before beginning to work.

CAUTION: When working in or near the engine compartment, turn the starter motor inhibitor switch to "starter motor disabled" for the steps, which do not require engine operation. Observe safe shop practices at all times.

4. To change the insulation retention hardware (full conversion):

Job time estimate: approximately 0.5 hours.

- 1) Open the engine compartment door.
- 2) Lift the door to a height, which allows working on the insulating panels that have been glued to its inside.
- 3) Using a suitable length of strap, secure the door in this position by lashing the handle on the inside of the door to the rear bumper.

- 4) Working in between the door and the coach, lever off all fourteen snap buttons securing the insulation with a large flat tip screwdriver (see Figure 1). During removal, place a piece of plywood between the tip of the screwdriver and the insulation to prevent damage. Discard the buttons.

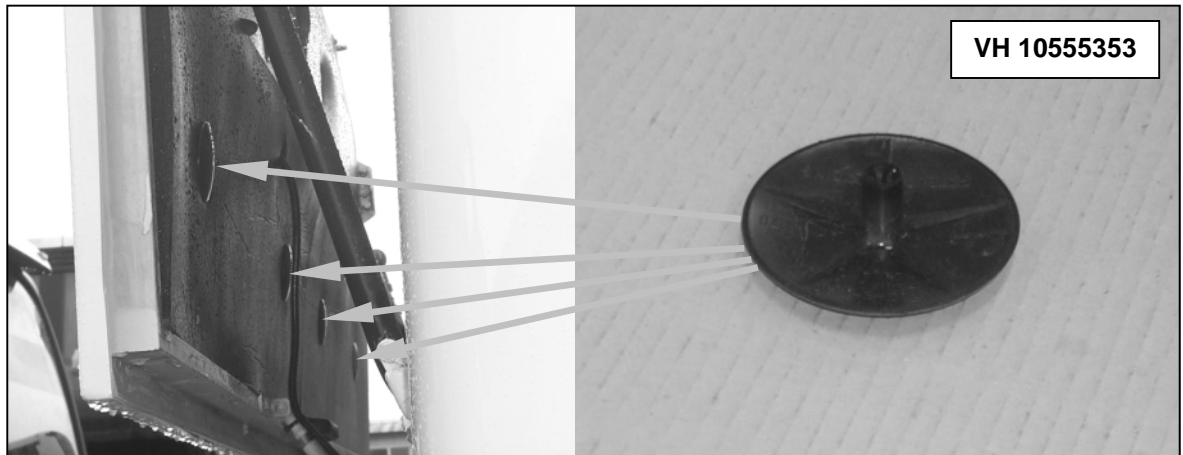


Figure 1: Snap buttons retaining the insulation (lower buttons shown only)

- 5) Refer to Figures 2 and 3 to install the mounting strips vertically one by one - the flat strips close to the door edges, the stepped strips close to the center part of the door.

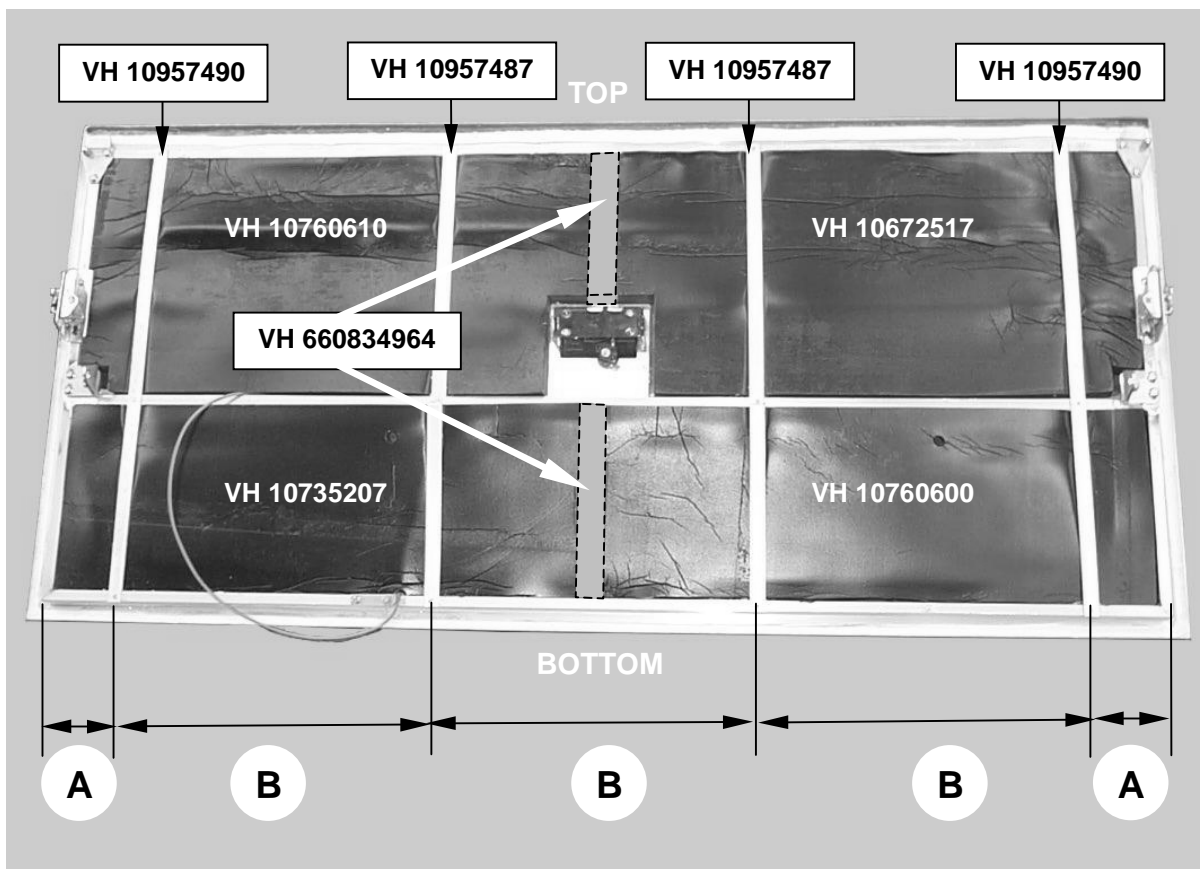


Figure 2: Location and installation dimensions of insulation mounting strips.

A = approximately 5.5 inch; B = approximately 23 inch between mounting strip centerline

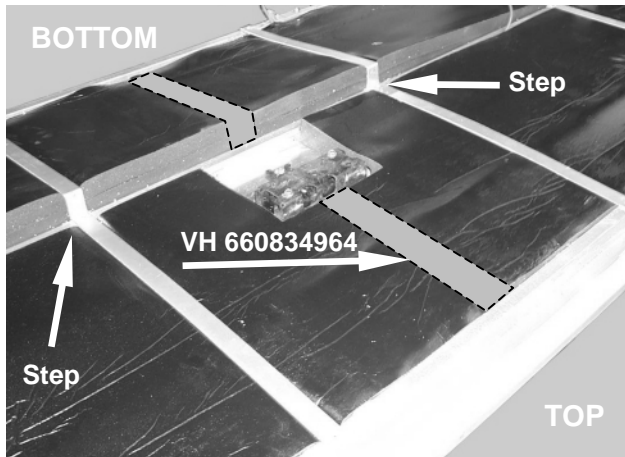


Figure 3: Installation of the stepped strips in the center part of the door. Note tank tape VH 660834964 joining the insulation panels

To install a mounting strip, proceed as follows:

- Carefully slip the strip between the door lock pull rod and the insulation.
- Place the strip in its appropriate location shown in Figure 2. Make sure the strip edges run parallel the doorframe. Secure temporarily with clamps.
- Using the holes in the strip as a template, drill two 13/16-inch (5.1 mm) Ø holes in the frame rails, one at the top, one at the bottom.
- Secure the strip with two water tight rivets VH 660611691 (see Figure 4).

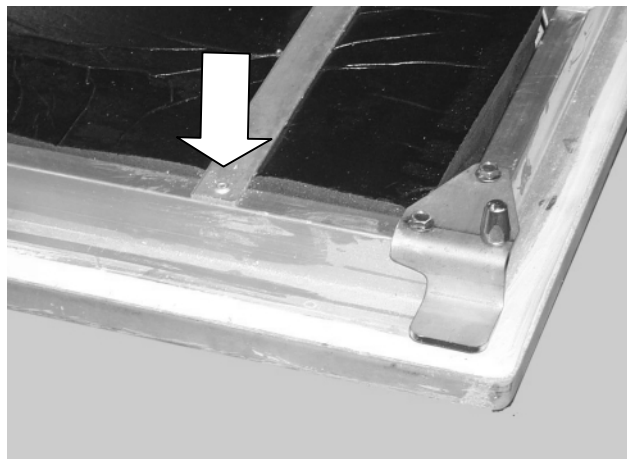


Figure 4: Strips are riveted to the door frame rails

- 6) Referring to Figures 2 and 3, join the mating edges of the insulation panels in the center with tank tape VH 660834964.
- 7) Switch the starter motor inhibitor switch on. Remove the strap holding the door steady and close it.

5. To repair damaged engine compartment door insulation:

- 1) Lash the engine compartment at a height suitable to do the job.
- 2) Assess the damage. Insulation qualifying for repair should include sections where it is partly or completely missing, frayed, or where snap buttons are missing or loose.
- 3) Remove loose snap buttons as described in section 4 "To change the insulation retention hardware".

- 4) With a marker, outline the area to be repaired.
- 5) Using a utility knife, cut through the insulation along the marks.
- 6) Remove the damaged insulation.
Remove all debris and thoroughly clean the surface underneath.
- 7) From the parts list, select a panel of insulation suitable to cover the area to be repaired (see new parts).
Cut to size and trial fit.
Trim as required to suit.
- 8) Apply a coat of black Sikaflex adhesive 221 (VH 660193028) where the new insulation is going to be fitted.
Also apply Sikaflex 221 underneath the old insulation bordering the area to be repaired.
Coat the raised edges.
- 9) Install the new insulation by pressing it firmly in place.
- 10) Join the mating edges of the insulation panels with tank tape VH 660834964.
- 11) Switch the starter motor inhibitor switch on.
Remove the strap holding the door steady and close it.
- 12) Allow adhesive to cure.

Procedure complete.

DISCLAIMER:

The procedures contained herein are not exclusive. Van Hool cannot possibly know, evaluate, or advise the transportation industry of all conceivable ways in which a procedure may be undertaken or of the possible consequences of each such procedure. Other procedures may be as good, or better, depending upon the particular circumstances involved.

Each carrier who uses the procedures herein must first satisfy itself thoroughly that neither the safety of its employees or agents, nor the safety or usefulness of any products, will be jeopardized by any procedure selected.

SERVICE INFORMATION:

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

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