SERVICE BULLETIN No.1161

COACH BUS MODEL	: C2045
BULLETIN TYPE	: Safety Recall Program – NHTSA campaign number 05V-210
MANUAL & SECTION	: Maintenance Manual: Chapter 11 – Body and accessories Spare Parts Manual: Section 733409 – Windows: accessories
MANUAL REVISION	: No
DATE	: May 18, 2005
SUBJECT	: **Passenger window catches - inspection**
TERMS & CONDITIONS	: Refer to the Customer Notification Letter, which has been attached to this Bulletin.

APPLICATION:

The Safety Recall Program subject of this Bulletin is applicable to following units:

Model	Engine	VIN
C2045	Cummins	45001 → 45078
	Detroit Diesel	45501 → 45572

DESCRIPTION:

1. During litigation Van Hool has reviewed certain material, which made it realize that there exists a possible noncompliance with respect to the window catches on certain of its coaches.
   As a preventive safety measure, it is therefore necessary to check that *all* window catches have been installed compliant to the design specifications.

2. The procedures in this Bulletin provide inspection instructions and criteria, and show how to address the issue should improperly fitted catches been detected.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

PARTS AND PRODUCTS:

Part No.	Description	Qty.*
VH 660611605	Rivet, 4 x 18.3 mm	90
VH 10893950	Spacer for window catch, 1 mm	12
VH 10895595	Spacer for window catch, 1 mm, 82 mm wide	12
VH 10893956	Spacer for window catch, 2 mm	12
VH 10885729	Spacer for window catch, 3 mm	12
VH 10885730	Spacer for window catch, 6 mm	12
VH 10895195	Catch, window, twin leaf	2
VH Tool	Gauge, yellow	1
VH Tool	Gauge, red	1

*Quantities per coach

Parts supply: refer to the Warranty Information in this Bulletin.
Parts and products disposition: discard according to applicable environmental regulations.

PROCEDURE:

1. **General:**

   - The jobs described should be executed by technicians experienced in body and trim repair.

2. **Special tools, equipment or services:**

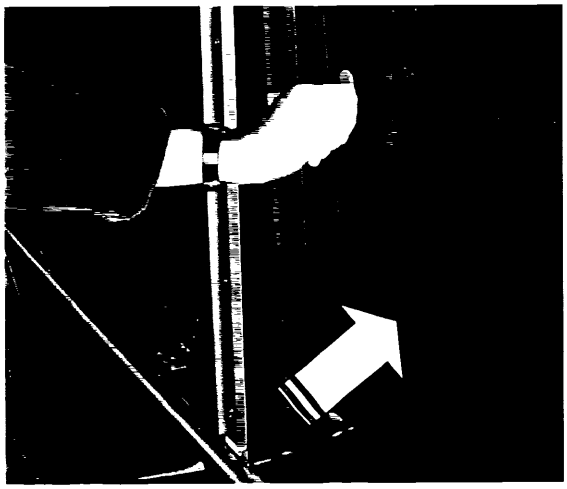
   - Precision spring scales are required.

3. **Preparations:**

   - Park the coach on a level surface, 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: Observe safe shop practices at all times.

4. **To check window catch installation:**



1) Working inside the coach, open the window by pulling the emergency release handle (see Figure 1).

Figure 1: Opening the passenger emergency window

2) Identify the type of catches (see Figures 2 and 3), which have been attached to the bottom channel of the window frame. All single leaf catch types should be replaced.

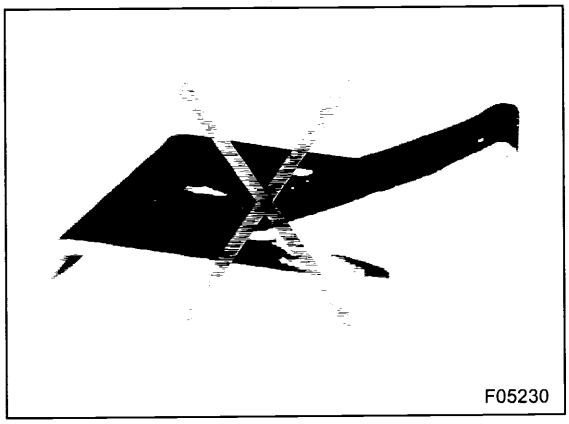


Figure 2: Single leaf catch type should be replaced

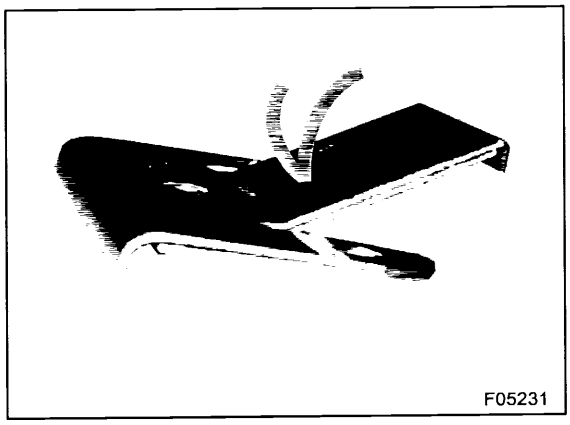


Figure 3: Twin leaf catch type should replace single leaf type

3) If a wrong type catch has been installed, remove the old one and install a twin leaf type referring to Figures 4 and 5.

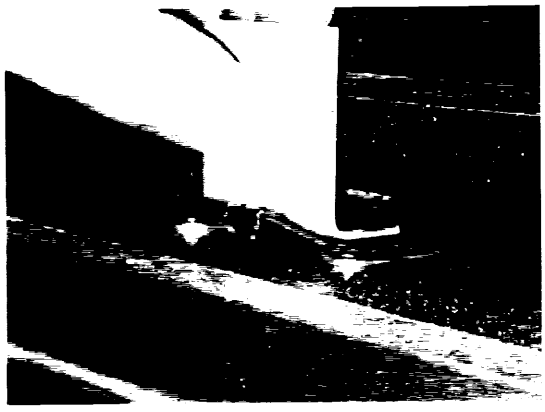


Figure 4: 2 mm yellow gauge should fit between the rivet heads and the slider

Figure 5: 3 mm red gauge should not fit between the rivet heads and the slider

Proceed as follows:

Drill-out the rivets securing the window catches.

Using a new catch and spacers, adjust the catch height until the red gauge (3 mm – see Figure 5) fits between the slider and the catch base plate (no rivets installed).
Secure the catch with rivets VH 660611605 to the coach frame.
Re-check the catch position for the proper gap using the yellow and red gauge:

The yellow gauge (2 mm – see Figure 4) should fit between the rivet head and the slider.
The red gauge (3 mm – see Figure 5) should no longer fit between the rivet head and the slider.

Fill the obsolete rivet holes with adhesive.

5. <u>To check window operation</u>:

1) Using precision spring scales, measure the force required to pull the emergency exit handle to open the window as shown in Figure 6.
Maximum allowable force required: 20 lbf (90N).

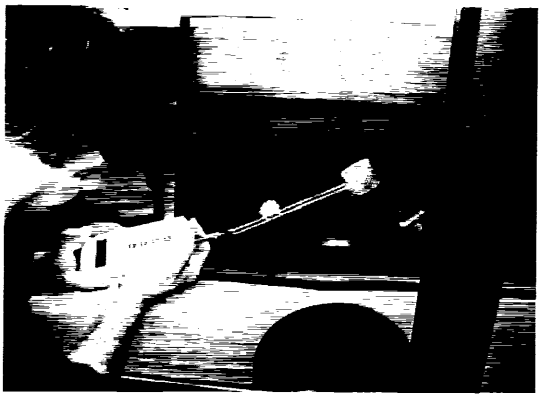


Figure 6: Checking the emergency window handle pulling force

2) Push the window outwards.
Confirm that it opens without undue effort.
Maximum allowable force required: 60 lbf (266 N).

3) Check, and if necessary correct the following :

- emergency release handle : operation, actuation of slider plungers
- catches : damage, lubrication
- rubber seals : damage, general condition, sealing action

4) If needed, grease the catches with heavy-duty grease VH10652729. This is a special grease compound that does not affect the sealing rubbers.

5) Close the window.

Procedure complete.