

<b>ADDRESSEES</b>	: ABC Customer Care and Parts Source Owners and operators of coaches listed under 'Application'
<b>VEHICLE MODEL</b>	: CX45, TX40, TX45
<b>SYSTEM/SUBSYSTEM</b>	: 14.10 Electrical system – Switches
<b>BULLETIN TYPE</b>	: Product Improvement
<b>DATE</b>	: September 09th, 2015
<b>SUBJECT</b>	: <b>Protection of control panel switches in engine compartment</b>
<b>TERMS &amp; CONDITIONS</b>	: No reimbursement will be awarded for carrying out this product improvement.

### APPLICATION:

As from following units, Van Hool have moved the control panel in the engine compartment from upon to beside the toilet service door (refer to figures 1 and 2).

Model	VIN
CX45	48523
TX40	41216
TX45	41325

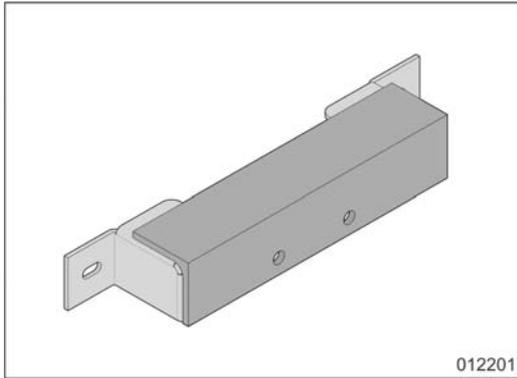


### DESCRIPTION:

1. Service records have shown that in the previous design the lower switches of the control panel are subject to damage when someone tries to close the rear engine compartment door while the toilet service door is still open.
2. To address this issue, installation of a guard is necessary on vehicles with the control panel upon the toilet service door.
3. Please refer to the material list and step-by-step instructions from the procedure below if you want to install this guard.

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## **MATERIAL:**



**Figure 3: Guard**

<b>VH reference</b>	<b>Description</b>	<b>Qty.</b>
11399641	Guard	1

- Material may be purchased through regular channels.
- Parts/Waste disposal: discard old material according to applicable environmental regulations.

## **PROCEDURE**

### **1. Preparations**

- Park the coach safely, apply the parking brake, stop 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.



## **WARNING!**

**Observe safe shop practices at all times.**

### **2. To check condition of switches on toilet service door**

- 1) Open the engine compartment door.
- 2) Make sure that the switches located on the toilet service door are working properly.
- 3) Open the toilet service door.
- 4) Check the condition of the switches and their electrical wiring (insulation, loose or oxidized connections). Change not properly operating or corroded switches. Repair damaged electrical wiring.

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### 3. To install guard

- 1) Open the engine compartment door.
- 2) Remove the two lower fasteners of the control panel.
- 3) Install the guard over the lower switches as indicated in figure 4. Use the same fasteners.



Figure 4: Guard installed

*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.

### **INFORMATION HANDLING:**

Important supplements to and modifications of the technical information not yet included in the Van Hool manuals are communicated by means of Service Bulletins.

File the Service Bulletins at the back of your manual, in numerical order.

To make sure that you will be reminded of the Bulletins that have appeared in the meantime while paging the manual, mark the pages concerned by hand with the Service Bulletin number.