



# SERVICE BULLETIN No.1166

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<b>COACH MODEL</b>	: C2045
<b>BULLETIN TYPE</b>	: Product Improvement
<b>MANUAL &amp; SECTION</b>	: Maintenance Manual: Chapter 10 – HVAC System
<b>PARTS BOOK REVISION</b>	: N/A
<b>DATE</b>	: June 28, 2005
<b>SUBJECT</b>	: <b>New evaporator air filter design</b>
<b>TERMS &amp; CONDITIONS</b>	: No claims will be accepted with reference to this Bulletin.

## APPLICATION:

New parcel rack evaporator air filters have been installed as from following units:

Model	Engine	VIN
C2045	Cummins	45440 →
	Detroit Diesel	45930 → 45934, 45955 →
	Caterpillar	47001 →

## DESCRIPTION:

To ensure trouble-free operation of the HVAC system, the climate control periodic service guide in the Maintenance Manual calls for a check of the parcel rack mounted evaporator air filters every 100 hours.

To facilitate checking and servicing of these items, a new filter design has been cut into production, which allows for easier removal and reinstallation.

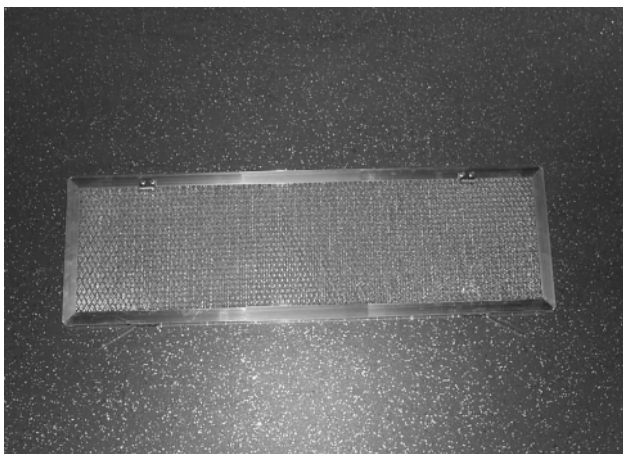
The new filter is no longer held in place by a foam rubber spring assembly, but instead features two twin-leaf springs (see Figures 1 and 2). Lateral movement of the filters is restricted by the U-channel at the top and at the bottom by the drip pan sidewall.

Customers wishing to modify the evaporator air filters on their coaches to the new spec may refer to the Procedure in this Bulletin.

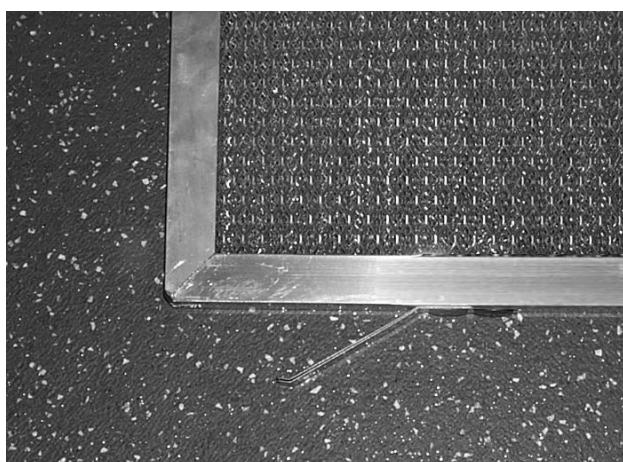
*Service personnel: please read, initial and circulate.*

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

## **PARTS AND PRODUCTS:**



**Figure 1: New improved air filter for evaporator in parcel rack**



**Figure 2: New improved air filter for evaporator in parcel rack – spring detail**

### **Old parts**

<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
VH 10715206	Parcel rack evaporator air filter	2 per evaporator

### **New parts**

<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
VH 10880172	Parcel rack evaporator air filter, complete w/ springs	2 per evaporator
VH 10885294	Leaf spring, supplied separately	4 per filter
VH 660611200	Blind rivet, Ø 5/32 inch (4 mm), grip range 5/16 inch (7.9mm)	4 per filter

- Old and new filter assemblies are not interchangeable. The procedure in this Bulletin must be completed for new filters to fit.
- Only the new parts will be offered for service replacement.
- Parts may be purchased from your nearest ABC Customer Care & Parts Source dealership.
- Parts and products disposition: discard according to applicable environmental regulations..

## **PROCEDURE:**

If you do not have the expertise to perform present procedure, do not hesitate to go to your nearest ABC Customer Care & Parts Source dealership.

### 1. **General:**

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

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

- This job requires the use of acetone and a rivet gun.

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

### 4. **To remove evaporator air filters VH10715206 and foam rubber spring assembly:**

Job time estimate: modifying the parcel rack doors of one vehicle takes approximately 1 hour.

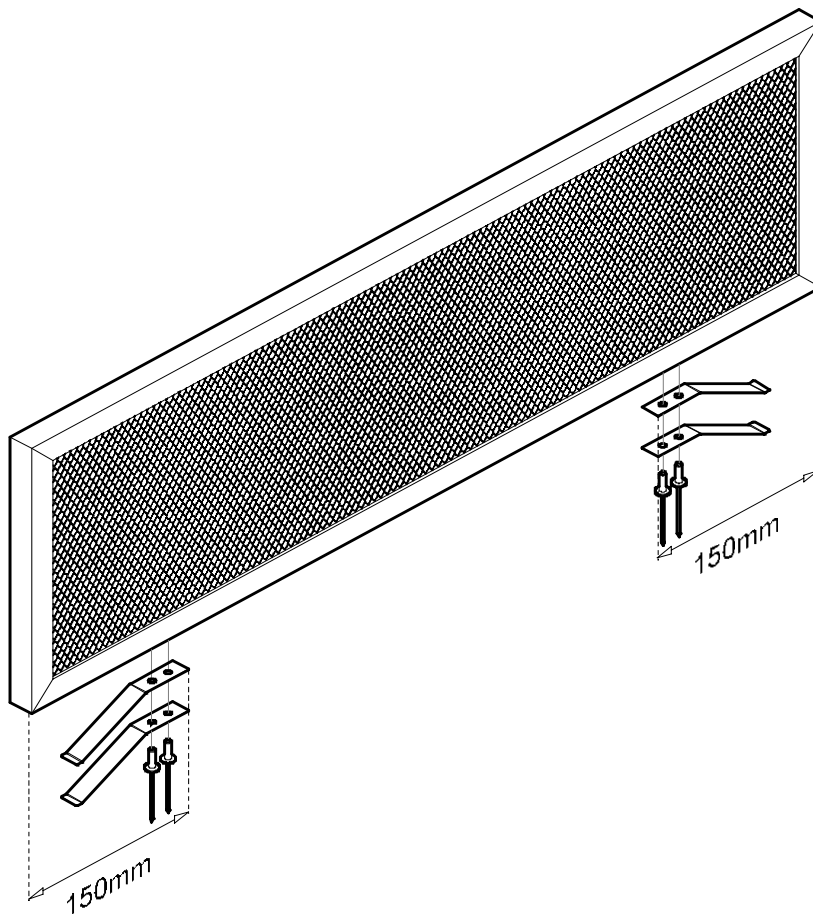
- 1) In the coach, open the evaporator access door using a square key. Disconnect the door's check straps and store the door out of the way.
- 2) Take the right hand air filter in front of the evaporator by the handles and push it hard down against the spring tension. With the filter free from the upper mounting channel, tilt it forward and withdraw it from the drip pan. To assist removal, it may be necessary to use a large screwdriver or a small prybar.

**CAUTION: Take care not to damage the filter upper mounting channel.**

- 3) Slide the left hand filter to the right to clear the fresh air flap actuating cylinder support bracket and repeat step 2.
- 4) Remove the spring assembly at the bottom of the drip pan, by first withdrawing the aluminum angle, which has been glued to the foam rubber strips.
- 5) With a putty knife, remove all rubber foam from the bottom of the drip pan. Use acetone to remove any remaining adhesive.

### 5. **To modify evaporator air filters VH107155206 by installing leaf springs VH 10885294**

- 1) Check that the upper mounting channel is free of dents and burrs. Correct as necessary.
- 2) Check that the frames of both filters are flush and true. Dress as necessary.
- 3) Referring to Figure 3 overleaf, drill four 11/64-inch diameter holes in the bottom channel of each air filter. Install two leaf springs per filter and per side as shown. Make sure the springs are properly aligned with the filter frame. Secure with blind rivets VH 660611200.
- 4) Install the modified filters one by one in front of the evaporator by simply pushing them down on the leaf springs by the handles. Release the handles when the filters are in-line with the upper mounting channel.
- 5) With the filters in place, reinstall the evaporator access door.



**Figure 3: Location of leaf springs – use two leafs per side (150 mm = 5-29/32 inch)**

*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.