

ADDRESSEES	: ABC Customer Care and Parts Source Owners and operators of coaches listed under 'Application'
VEHICLE MODEL	: All Van Hool coaches
MANUAL SECTION	: 02.06 Engine - suspension
BULLETIN TYPE	: Product improvement
DATE	: July, 26th 2018
SUBJECT	: Introduction of new rubber-metal mounts for engine suspension
TERMS & CONDITIONS	: No reimbursement will be awarded for carrying out this product improvement.

APPLICATION:

This product improvement applies to all Van Hool coaches.

DESCRIPTION:

Van Hool has changed-over in production to a new type of front rubber-metal mount for the engine suspension. As the new type can also be used on previously sold vehicles, only the new type will continue to be available as a spare part. Please refer to the material list and step-by-step instructions from the procedure below when installing this new type of rubber-metal mount. The new type of rubber-metal mount is available in the hardness "45-A-Shore" and "50-A-Shore". Which hardness must be used can be found in the spare parts manual of the vehicle.

NOTE: Rubber-metal mount "45-A-Shore" replaces the old "55-A-Shore" rubber-metal mount VH11222466, rubber-metal mount "50-A-Shore" replaces the old "60-A-Shore" rubber-metal mount VH11222467.

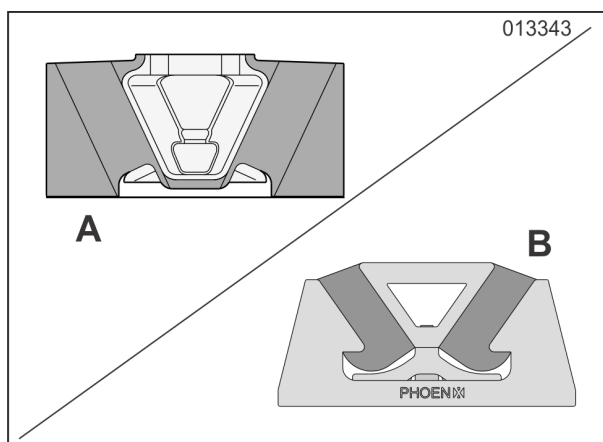


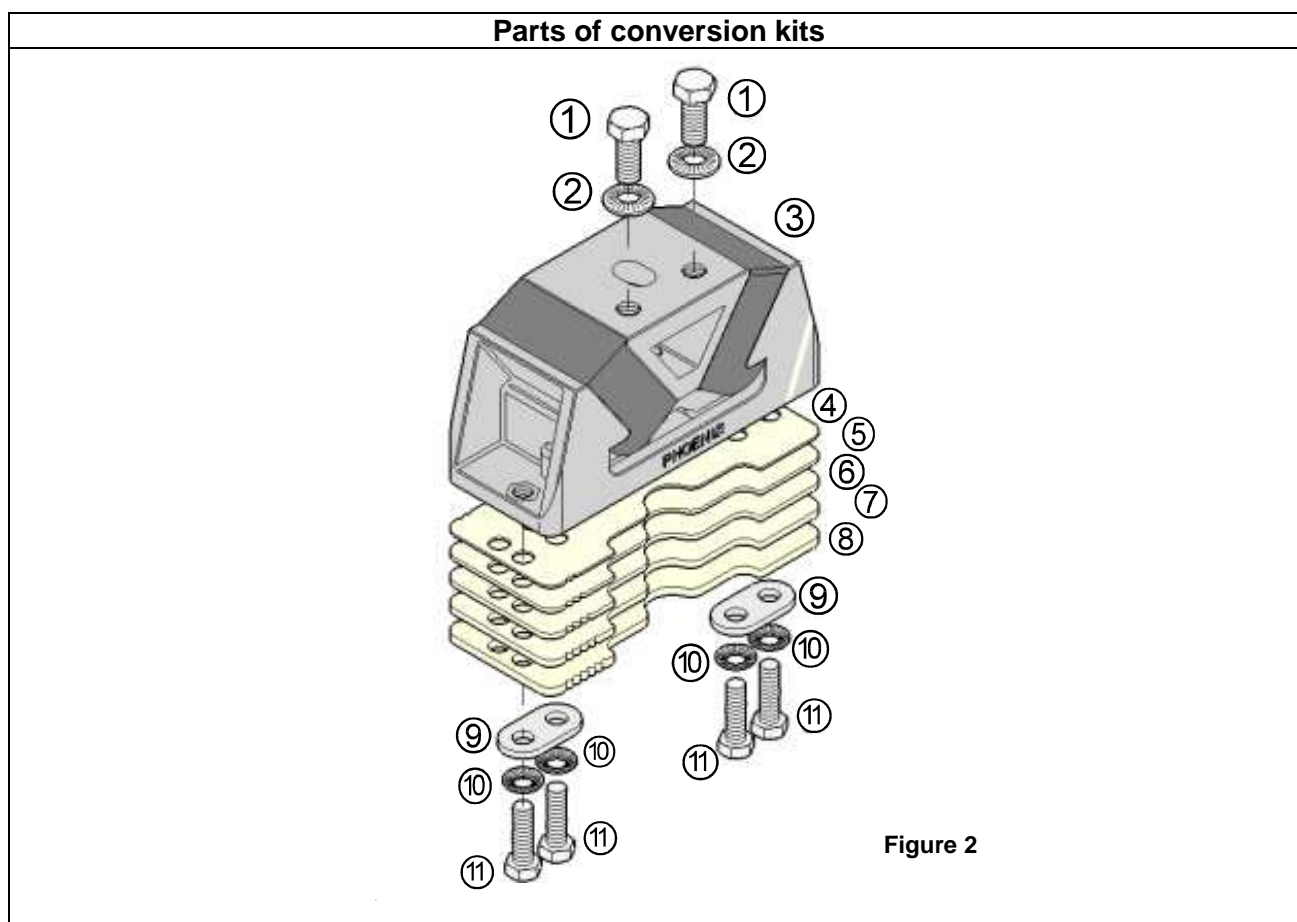
Figure 1: Visual identification of rubber-metal mount

- A. Old type
- B. New type

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COMPONENTS AND PRODUCTS:

Conversion kits	VH number
Engine mount "45-A-Shore"	11511242
Engine mounts "50-A-Shore"	11511246



		Conversion kit 11511242	Conversion kit 11511246	
VH reference	Description	Qty.	Qty.	No. in figure
660219747	Screw M14x1.5x35mm	4	4	1
10564612	Special spring washer	4	4	2
11475505	Rubber-metal mount	2	-	3
11475506	Rubber-metal mount	-	2	3
11488917	Spacer 2 mm	2	2	4
11488929	Spacer 3 mm	2	2	5
11488930	Spacer 4 mm	2	2	6
11488949	Spacer 5 mm	2	2	7
11488951	Spacer 6 mm	2	2	8
10594483	Spacer 5 mm	4	4	9
10580793	Washer	8	8	10
660251035	Screw M12x1.5x45mm	8	8	11

Material may be purchased from your nearest ABC Customer Care and Parts Source facility.

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TO CHANGE RUBBER-METAL MOUNT:

1. JOB QUALIFICATION:

No special job qualification required.

2. SPECIAL TOOLS, EQUIPMENT OR SERVICES:

This job does not require special tools, equipment nor services.

3. PREPARATIONS:

- Park the coach on a level-surfaced service pit.
- Apply the parking brake and shut down the engine.
- Switch off all systems and turn off the battery master switch.
- Turn off the mechanical battery 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.



CAUTION!

Do not mix up old and new type rubber-metal mounts. Even do not mix up different hardnesses.

4. PROCEDURE:

Step	Action
1	Remove the fixing screws, washers and spacers at the top and the bottom of the rubber-metal mount.
2	Jack up the transmission until the rubber-metal mount is free and remove this part together with the shims. <div data-bbox="638 1348 1174 1740" data-label="Image"></div>

Figure 3

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3	Install the new rubber-metal mounts with a number of spacers with a total thickness of at least 7 mm (0.28 inch).
4	Lower the transmission.
5	Wait for 10 minutes.
6	<p>Measure height "A" of the RH and LH rubber-metal mounts and compare. Is the difference more than 1,5 mm (0.06 inch)?</p> <ul style="list-style-type: none"> • If so, go to next step. • If not, go to step 13. <div data-bbox="606 441 1101 804" data-label="Image"> </div> <p style="text-align: right;">Figure 4</p>
7	Multiply the calculated difference by 1.5 to become the correct height of the spacers to be added.
8	<p>Add the spacer(s) to the rubber-metal mount where height "A" (refer to Figure 4) is the highest or remove spacers at the other rubber-metal mount.</p> <div data-bbox="349 1003 437 1093" data-label="Image"> </div> <p>CAUTION! The total height of the spacers should be more than 2 mm (0.08 inch) and less than 12 mm (0.5 inch).</p>
9	Hand-tighten all the fixing screws of the rubber-metal mounts.
10	Lower the transmission.
11	Wait for 10 minutes.
12	<p>Measure height "A" of the RH and LH rubber-metal mounts again. Is the difference still more than 1,5 mm (0.06 inch)?</p> <ul style="list-style-type: none"> • If so, go back to step 7. • If not, go to step 13.
13	<p>Finally tighten the:</p> <ul style="list-style-type: none"> • M12-screws to a torque of 75 ± 10 Nm (55 ± 7 ft.lbf); • M14-screws to a torque of 125 ± 10 Nm (90 ± 7 ft.lbf).

End of procedure.

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MAINTENANCE:

Regularly check the condition and the freedom of movement of the rubber-metal mounts.

- **To check condition of rubber-metal mounts**

Check the rubber-metal mounts for cracks and damage.

- **To check freedom of movement of rubber-metal mounts**

Measure height "A". Height "A" is an indication for the freedom of movement of the rubber-metal mount. A too small height "A" can cause noise nuisance (vibrations, knocking). Change the rubber-metal mount if height "A" is less than 23 mm (0.9 inch).

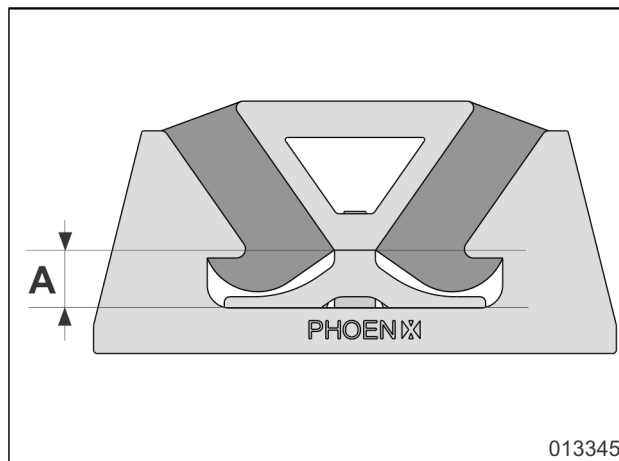


Figure 4

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.

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INFORMATION HANDLING:

Important additions and modifications regarding technical information not yet included in the manual will be communicated through Service Bulletin.

VAN HOOL CUSTOMER PORTAL:

Consult the customer portal regularly for the latest service documentation. Beside the maintenance manual, you will also find the operating manual and the spare parts catalogue of your vehicle on the customer portal. The customer portal is accessible through www.vanhool.be, and only with a code (password) from Van Hool. If you do not have a password yet, request it by using the link on the Van Hool website.

REVISION RECORD	
Description	Date
Initial release	2016-12-15
Edition A: <ul style="list-style-type: none">In retrofit kit on page 2: reference number for screw M14x1.5x35mm changed from 660251035 to 660219747In retrofit kit on page 2: screw M12x1.5x40mm (660219743) changed to screw M12x1.5x45mm (660251035)	2018-07-26