

ADDRESSEES	: ABC Customer Care and Parts Source Owners and operators of vehicles mentioned under “Application”
VEHICLE TYPE	: Coaches with Detroit Diesel DD13 engine
CONFIGURATION GROUP	: 02.22 Traction engine – Air intake system
BULLETIN TYPE	: Product improvement
DATE	: March 12th, 2018
SUBJECT	: Introduction of new rubber elbow in engine air intake piping
CONDITIONS	: This Service bulletin is covered by Van Hool standard warranty.

APPLICATION:

As from following units with Detroit Diesel engine, Van Hool is using an improved rubber elbow in the engine air intake piping. This new EPDM rubber elbow has better resistance to high temperatures.

Model	VIN
CX45	49786, 81001 →
TX45	41662 →

DESCRIPTION:

The elbow is located near the turbocharger, and joins the pipe coming from the engine air filter to the turbocharger. This service bulletin gives step-by-step instructions on how to install the new rubber elbow.

NOTE: It is important to inspect this elbow for damage at the next service interval. Engine damage may occur if this elbow is damaged!

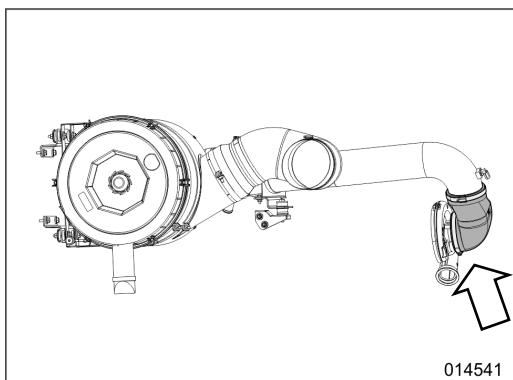


Figure 1: Location of rubber elbow

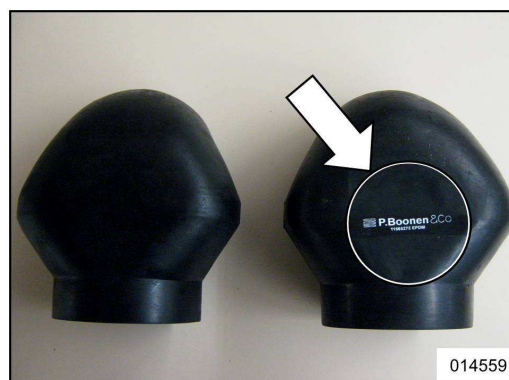


Figure 2: Rubber elbow
Left = previous elbow (11203452)
Right = new elbow (11565272)

Continued on next page

SPECIAL TOOLS, EQUIPMENT OR SERVICES:

No special tools, equipment or services required.

PARTS:

Description	VH reference	Quantity
Rubber elbow	11565272	1
Hose clamps	11506681	2

- Old and new rubber elbow are interchangeable, but only the new one is supplied as spare part.
- Parts can be purchased through an "ABC customer Care & Parts Source Service Center".
- Waste disposal: dispose of removed components and used products in accordance with the local environmental regulations.

JOB QUALIFICATION:

No special job qualification required.

PREPARATIONS:

- Make sure that the parking brake is applied and stop the engine.
- Switch off all systems and turn off the battery isolation switch on the dashboard.
- Open the mechanical battery isolation switch.
- Install a "DO NOT OPERATE" warning message on the instrument panel.
- Put chocks in front of and behind the drive axle wheels.
- **Read the entire procedure before starting to work.**



WARNING!

Observe safe shop practices at all times.

PROCEDURE:

Step	Action
1	<p>Open the last exterior service door at the left rear. Remove the panel indicated in figure 3 to get access to the engine side. <i>Remark: Actual panel may look different on certain vehicles.</i></p> <div data-bbox="600 1509 1134 1899"></div> <p>012827A</p>

Figure 3

Continued on next page.

2	<p>Remove the rubber elbow and hose clamps.</p> <div data-bbox="611 241 1144 629" data-label="Image"> </div> <p style="text-align: right;">014542 Figure 4</p>
3	<p>Degrease the contact surfaces at both sides of the rubber elbow, the turbocharger inlet and air-intake pipe with Loctite 7063 or similar product.</p>
4	<div data-bbox="352 745 445 840" data-label="Image"> </div> <p>CAUTION!</p> <p>Do not use any lubricant to ease installation!</p> <p>Push the new rubber elbow together with hose clamp 11506681 from the kit onto the air-intake piping. Push the other side of the elbow together with the other hose clamp 11506681 from the kit onto the turbocharger inlet. Check for a minimum clearance of 1 cm (0.4 inch) between air intake piping and other components of the engine compartment. If necessary, rotate the rubber elbow. Tighten the clamps to a torque of 5 ± 0.5 Nm (3.7 ± 0.4 ft.lbf) by using a torque wrench .</p>
5	<p>Re-install the access panel.</p>
6	<p>Close the exterior service door.</p>
7	<p>Retighten the hose clamps after 2,500 km (1,600 miles) by using a torque wrench</p>

End of procedure.

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.

Continued on next page.

INFORMATION HANDLING:

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

VAN HOOL CUSTOMER PORTAL:

Consult the customer portal regularly for the latest service documentation. In addition to 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.