

SERVICE BULLETIN

SB1348C

ADDRESSEES: ABC Customer Care and parts Source

Owners and operators of coaches with Van Hool independent

wheel suspension and disc brakes on all axles

VEHICLE MODEL : Coaches with Van Hool independent wheel suspension and

disc brakes on all axles

MANUAL CHAPTER : 12.06 Axles – front axle

12.10 Axles - trailing axle

BULLETIN TYPE : Product improvement

DATE : January 26th, 2018

SUBJECT : Introduction of M20 fastening bolts and "reinforced"

rubber bushings for wheel-suspension arm joints

TERMS AND CONDITIONS: This product improvement does not entitle to any

reimbursement.

APPLICATION:

As from following units, Van Hool has improved the wheel-suspension arms installation.

Model	VIN	Model	VIN
CX35	49729	TX45	41574
CX45	49737	TDX25	42953

DESCRIPTION:

Since June 2017, Van Hool is using a M20 assembly bolt in combination with "reinforced" rubber bushings 11556702 for fastening the wheel-suspension arms to the steering knuckle carrier/hub carrier. The M20 assembly bolt allows for an increased tightening torque, resulting in a tighter tensioning of the joint, which in turn has a beneficial effect on the life of the rubber bushings.

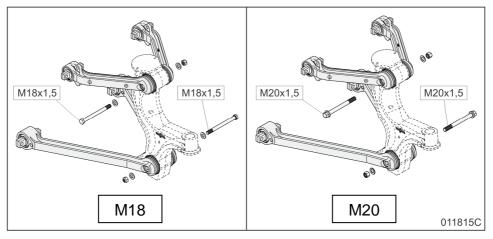
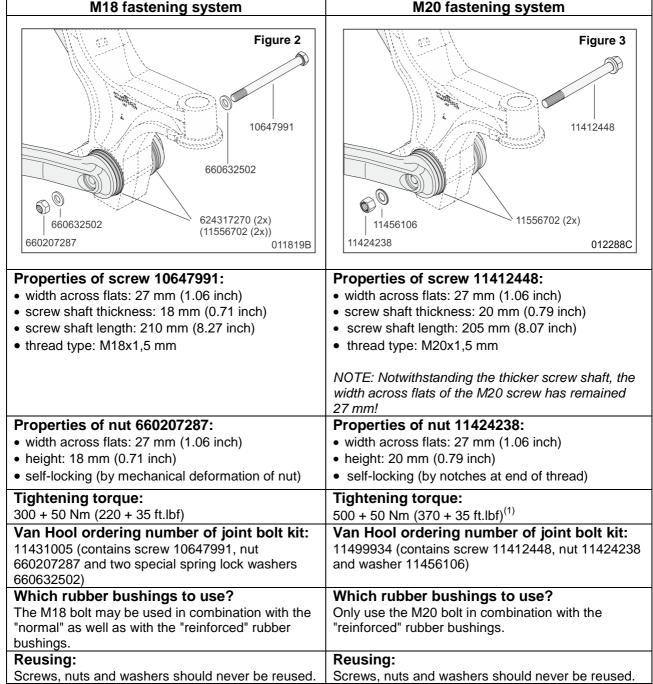


Figure 1: Fastening of wheel-suspension arm joints (figure shows front-wheel suspension)

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COMPARISON OF FASTENING SYSTEMS:



Interchangeability: The old and new versions are interchangeable. However, with the M20 bolt, bear in mind:

- that it may only be used in combination with the "reinforced" rubber bushings. The use of "normal" bushings in combination with the M20 bolt and the increased tightening torque, could damage the vulcanized metal rings of the bushing;
- the increased tightening torque of 500 + 50 Nm (370 + 35 ft.lbf);
- that there is a washer only on the side of the nut.

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⁽¹⁾ Place the socket of the torque wrench by preference on the screw head instead of on the nut.

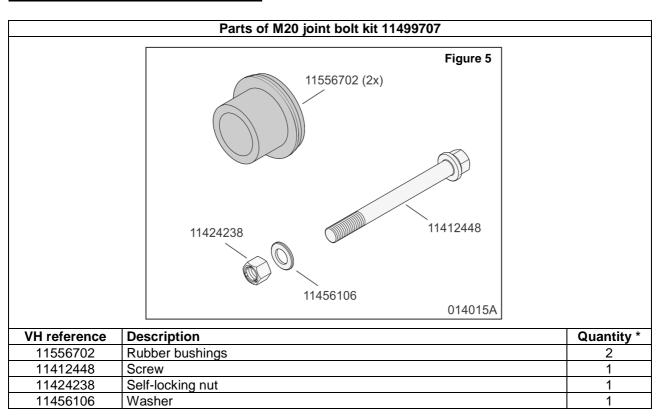
VISUAL IDENTIFICATION OF RUBBER BUSHINGS- Figure 4:

"Normal" and "reinforced" rubber bushings are identical in size and shape. For visual identification purposes, a limited number of "reinforced" rubber bushings have been marked blue in production. Thereafter rubber bushings are only determined by means of the production date stamped on the bushing. This production date consists of two digits surrounded with a number of dots (each dot is a quarter of a year). For example: "16" surrounded with three dots means that the rubber bushing is produced during the third quarter of 2016. Rubber bushings without a blue mark are "reinforced" when they are produced in the fourth quarter of 2017 or later.



Figure 4: Location of production date. Example shows a rubber bushing produced in the third quarter of 2016 = "normal" bushing

COMPONENTS AND PRODUCTS:



^{*}Quantity suited for one joint

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AFTER SALES:

- Only the M20 joint bolt kit will be offered as service replacement.
- "Reinforced" rubber bushings will come together with the M20 joint bolt as kit # 11499707 (contains two rubber bushings 11556702, screw 11412448, nut 11424238 and washer 11456106).
- This service bulletin is not applicable to vehicles with drum brakes on all axles, and on vehicles with a combination of D3-disc brakes on front /tag axle and drum brakes. The wheel suspension arms on these vehicles are different and do not accept the larger M20 screw. The "normal" rubber bushings 624317270 and the "reinforced" rubber bushings 11556702 may be used on these vehicles. The rubber bushings will for these vehicles not come in a kit but will be sold separately.

HELP DESK:

If there are any questions regarding this subject, please call ABC Customer Care & Parts Source toll-free for guidance on 1-877-427-7278.

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 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.