

SERVICE BULLETIN SB1348B

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	: September 25 th , 2017
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.

NOTE: For visual recognition purposes, the "reinforced" rubber bushings have been marked blue.

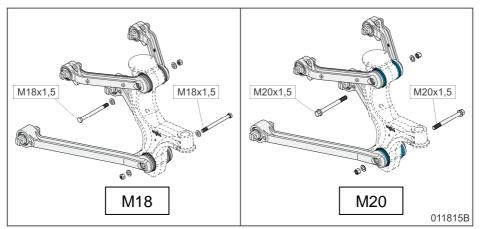


Figure 1: Fastening of wheel-suspension arm joints (figure shows front-wheel suspension)

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COMPARISON OF FASTENING SYSTEMS:

M18 fastening system	M20 fastening system			
0 10647991 0 0	11412448 11412448 11456106 11556702 (2x) 11424238 012288B			
Properties of screw 10647991: • width across flats: 27 mm (1.06 inch) • screw shaft thickness: 18 mm (0.71 inch) • screw shaft length: 210 mm (8.27 inch) • thread type: M18x1,5 mm	 Properties of screw 11412448: width across flats: 27 mm (1.06 inch) screw shaft thickness: 20 mm (0.79 inch) screw shaft length: 205 mm (8.07 inch) thread type: M20x1,5 mm NOTE: Notwithstanding the thicker screw shaft, the width across flats of the M20 screw has remained 			
 Properties of nut 660207287: width across flats: 27 mm (1.06 inch) height: 18 mm (0.71 inch) self-locking (by mechanical deformation of nut) 	 27 mm! Properties of nut 11424238: width across flats: 27 mm (1.06 inch) height: 20 mm (0.79 inch) self-locking (by notches at end of thread) 			
Tightening torque:	Tightening torque:			
300 + 50 Nm (220 + 35 ft.lbf) Van Hool ordering number of joint bolt kit: 11431005 (contains screw 10647991, nut 660207287 and two special spring lock washers 660632502)	500 + 50 Nm (370 + 35 ft.lbf) ⁽¹⁾ Van Hool ordering number of joint bolt kit: 11499934 (contains screw 11412448, nut 11424238 and washer 11456106)			
Which rubber bushings to use? The M18 bolt may be used in combination with the "normal" as well as with the "reinforced" rubber bushings.	Which rubber bushings to use? Only use the M20 bolt in combination with the "reinforced" rubber bushings.			
Reusing:	Reusing:			
Screws, nuts and washers should never be reused. Interchangeability: The old and new versions are mind:	Screws, nuts and washers should never be reused. interchangeable. However, with the M20 bolt, bear in			
 that it may only be used in combination with the "reinforced" rubber bushings; the increased tightening torque of 500 + 50 Nm (370 + 35 ft.lbf); that there is a washer only on the side of the nut. 				

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

COMPONENTS AND PRODUCTS:

	Parts of M20 joint bolt kit 11499707	
	11556702 (2x) 114124238 11412448 11412448 014015	
VH reference	Description	Quantity *
11556702	Rubber bushings	2
11412448	Screw	1
11424238	Self-locking nut	1
11456106	Washer	1

*Quantity suited for one joint

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.

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 <u>www.vanhool.be</u>, 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.