

ADDRESSEES	: ABC Customer Care and Parts Source Owners and operators of coaches listed under “Application”
VEHICLE TYPE	: CX45, TX40, TX45, TDX25US
CONFIGURATION GROUP	: 02.46 Engine – Accessory drive systems
BULLETIN TYPE	: Field Change Program
DATE	: March 16th, 2018
SUBJECT	: To change fixing screws of fan-drive idler pulley bracket
TERMS & CONDITIONS	: Refer to the warranty section further in this Bulletin.

APPLICATION:

The Field Change Program, subject of this bulletin, is applicable to the below mentioned vehicles:

Model	Applicable kit number*	VIN
TX40	1	41217→41236
TX45	1	41335, 41391 41393→41571, 41574→41603, 41614→41618
CX45	1	48968→48974 48981 48983→49224, 49250→49269, 49330→49335, 49361→49597, 49599→49639, 49736→49786, 81001→81003 81006
TDX25US	2	42899→42953 42955

* Different screw lengths are used during production. Order the proper kit number for your vehicle (refer to page 2).

DESCRIPTION:

Issues have been reported about broken fan-drive idler pulley bracket grade 8.8 fixing screws. Investigation has shown that the grade 8.8 fixing screws, securing the idler arm to the engine crossmember, could break under heavy operating conditions.

To address this issue Van Hool is conducting a Field Change Program to change the grade 8.8 screws by grade 10.9 screws.

This service bulletin gives step-by-step instructions to change the fan-drive idler pulley bracket grade 8.8 fixing screws.

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COMPONENTS AND PRODUCTS:

Parts of kit 1 (VH11595557)		
VH reference	Description	Qty.
11560384	M12x1.75 screw, grade 10.9, length 4.3 inch (110 mm)	1
660246504	M12x1.75 screw, grade 10.9, length 3.5 inch (90 mm)	1
11591365	M12x1.75 screw, grade 10.9, length 3.2 inch (80 mm)	1

Parts of kit 2 (VH11595558)		
VH reference	Description	Qty.
11560384	M12x1.75 screw, grade 10.9, length 4.3 inch (110 mm)	1
660246504	M12x1.75 screw, grade 10.9, length 3.5 inch (90 mm)	2



Figure 1: Capscrew head marking 10.9

JOB QUALIFICATION:

No special job qualification required.

SPECIAL TOOLS, EQUIPMENT OR SERVICES:

Loctite 270 or equivalent

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.

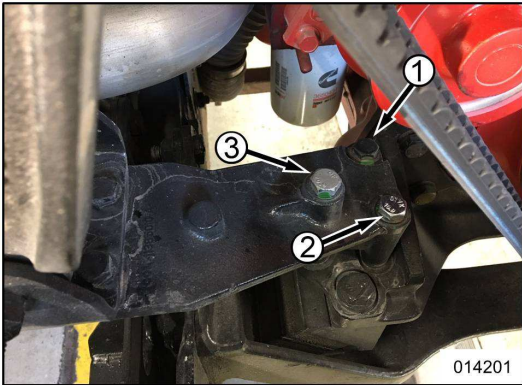


WARNING!

Observe safe shop practices at all times.

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PROCEDURE:

Step	Action															
1	Open the rear engine compartment door.															
2	Release the tension from the fan drive belts. Follow the procedure as described in chapter 2.46 of the maintenance manual.															
3	<p>Replace the three grade 8.8 screws installed by the grade 10.9 screws of the kit. Replace them one by one to be sure that the idler pulley arm remains positioned.</p> <ul style="list-style-type: none"> • Apply locking adhesive Loctite 270 or equivalent to the thread of the screws. • Tighten the grade 10.9 screws with a torque of 73 ± 10 ft.lbf (100 ± 15 Nm). <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="background-color: #cccccc;">Location of fixing screws according to length</th> </tr> <tr> <th style="width: 20%;">Nr. in figure 2</th> <th style="width: 40%;">Kit 1</th> <th style="width: 40%;">Kit 2</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.2 inch (80 mm)</td> <td>3.5 inch (90 mm)</td> </tr> <tr> <td>2</td> <td>3.5 inch (90 mm)</td> <td>3.5 inch (90 mm)</td> </tr> <tr> <td>3</td> <td>4.3 inch (110 mm)</td> <td>4.3 inch (110 mm)</td> </tr> </tbody> </table> <div style="text-align: center;">  <p style="text-align: right;">014201 Figure 2</p> </div>	Location of fixing screws according to length			Nr. in figure 2	Kit 1	Kit 2	1	3.2 inch (80 mm)	3.5 inch (90 mm)	2	3.5 inch (90 mm)	3.5 inch (90 mm)	3	4.3 inch (110 mm)	4.3 inch (110 mm)
Location of fixing screws according to length																
Nr. in figure 2	Kit 1	Kit 2														
1	3.2 inch (80 mm)	3.5 inch (90 mm)														
2	3.5 inch (90 mm)	3.5 inch (90 mm)														
3	4.3 inch (110 mm)	4.3 inch (110 mm)														
4	Set the tension of the fan drive belts as described in chapter 2.46 of the maintenance manual.															
5	Close the rear engine compartment door.															
6	Notify ABC Companies by mail. Write the text "SB1461 executed for VIN....." in the mail and send the mail to warranty@abc-companies.com .															
7	For ABC Companies only: register through the registration button located behind the Service Bulletin on the Van Hool customer portal. Write the text "SB1461 executed" in the field "Remark". Labor allowance will only be awarded after Van Hool has received the registration.															

End of procedure.

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WARRANTY:

1. Conditions

Van Hool accepts claims for this conversion as follows:

Compensation for labor hours: 20 minutes

Campaign target date: Service Bulletin issue date + 0,5 year

2. Claim references:

- **Job code:** O06510V
- **Causal part:** 660246405, 660246501, 660246603
- **Claim submission:** Contact ABC Customer Care Warranty Department for guidance.
- **Monitoring and performance:** The claim records pertaining to this Bulletin will be used to determine that the remedy has been executed in accordance with the manufacturer's instructions and to evaluate the status of this Field Change Program.

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 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.