SERVICE BULLETIN

SB1497

ADDRESSEES	: Owners and operators of coaches under “Application” ABC Customer Care and Parts Source
VEHICLE TYPE	: CX35, CX45, TX40, TX45
CONFIGURATION GROUP	: 14.2 Electrical – Electric power supply
BULLETIN TYPE	: Product improvement
DATE	: July 10th, 2019
SUBJECT	: **Introduction of improved insulation ring for jump starting device**
TERMS & CONDITIONS	: This service bulletin does not entitle to any reimbursement.

APPLICATION:

As from March 2018, Van Hool has improved the jump starting device installation on the following vehicle types:

CX35	CX45	TX40	TX45

DESCRIPTION:

The jump starting device insulation ring has been redesigned to increase the reliability. Together with the release of this product improvement bulletin we recommend to inspect the plastic parts of the jump starting device on earlier CX35, CX45, TX40, TX45 and C2045 vehicles for possible cracks or other damage. When in doubt about the condition of one of these plastic parts, change all parts incorporated in the retrofit kit according to the step-by-step instructions in this service bulletin.

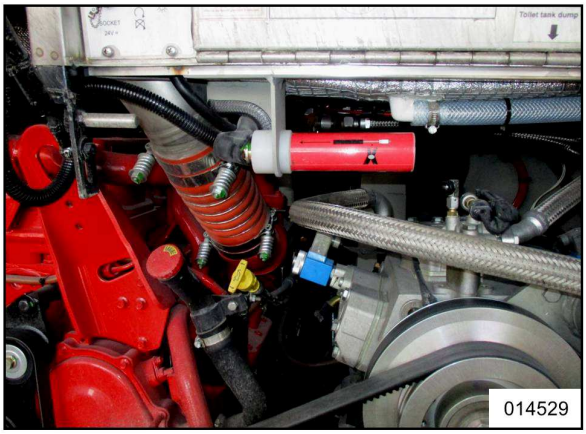


Figure 1: Location of jump starting device in engine compartment (location in compartment may vary)

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PARTS AND PRODUCTS:

Parts of retrofit kit 11688192

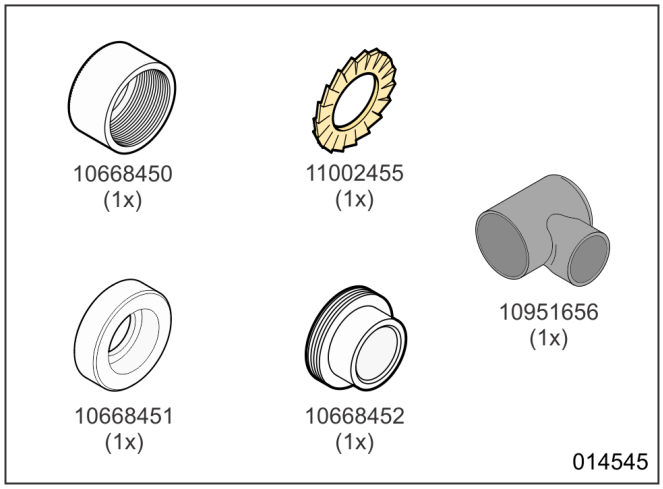


Figure 2

VH Reference	Description	Qty
10668450	Insulation cap	1
10668451	Improved insulation ring	1
10668452	Insulation bushing	1
11002455	Locking washer	1
10951656	Cable terminal protective cap	1

- Old and new insulation rings are interchangeable, but only the new one will be 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:

The task has to be carried out by an experienced technician, trained in the operations at hand.

SPECIAL TOOLS, EQUIPMENT OR SERVICES:

No special tools or equipment or services required.

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 time

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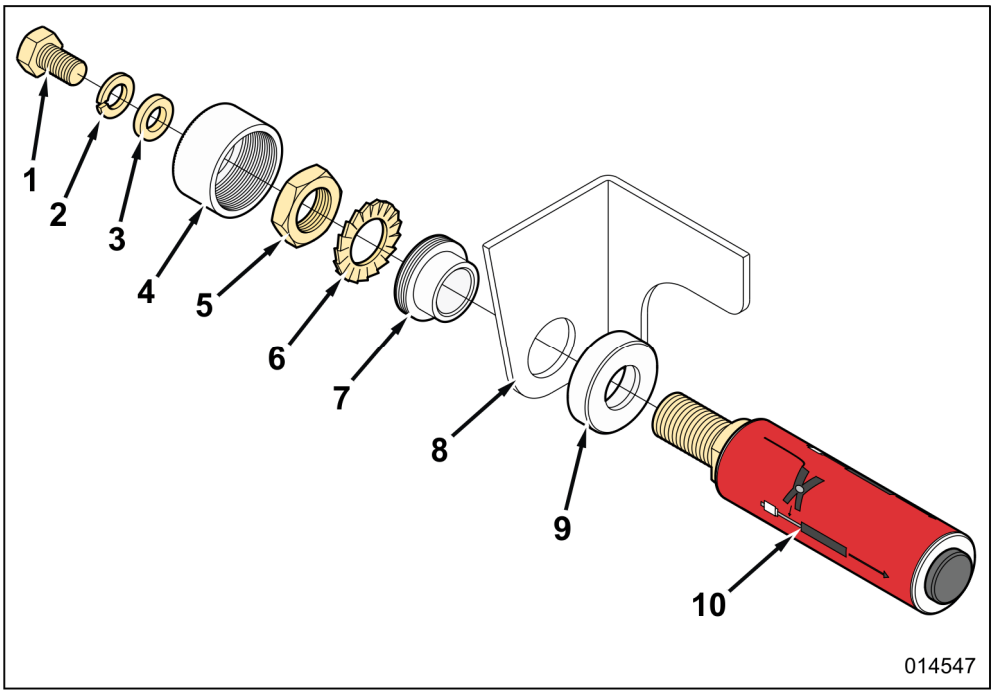


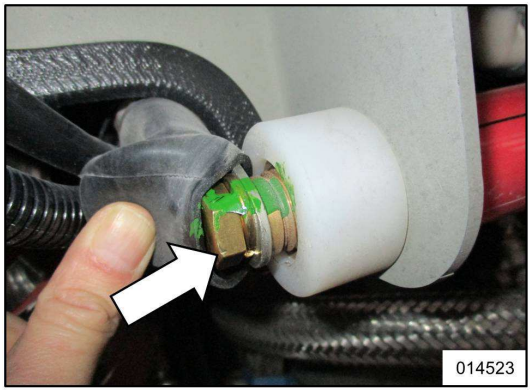
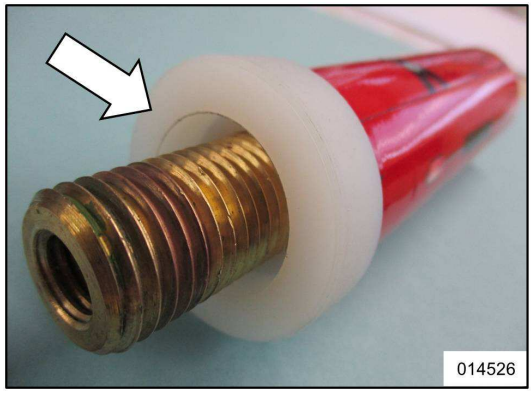
Figure 3: Jump starting device components

1. **Screw to secure electrical cable**
2. **Coil spring washer**
3. **Washer**
4. **Insulation cap**
5. **Nut**
6. **Locking washer**
7. **Insulation bushing**
8. **Bracket**
9. **New type insulation ring**
10. **Handle**

PROCEDURE:

Step	Action
1	Locate the vehicle batteries and disconnect the ground cable clamp as indicated in the figure. The figure shows a batteries setup on CX45, TX… and late C2045 vehicles. On early C2045 vehicles the batteries are located at the left-hand side at the very rear.  **Figure 4**
2	Open the engine compartment rear door.

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3	Locate the jump starting device.
4	Push the protective cap away from the positive cable terminal and remove the cable.  **Figure 5**
5	Unscrew insulation cap (4, Figure 3) from the jump starting device.
6	Unscrew nut (5, Figure 3), and remove locking ring (6, Figure 3) and insulation bushing (7, Figure 3). Remove the jump starting handle from its bracket.
7	Remove the old insulation ring and slide the new insulation ring from the kit on the jump starting handle. The small hole end of the insulating ring must be located at the red handle side as indicated in figure 6.  **Figure 6**
8	Install the jump starting handle together with the new insulation ring from the kit on bracket (8, figure 3).
9	Slide new insulation bushing (7, Figure 3) from the kit on the jump starting handle. Install new locking washer (6, Figure 3) from the kit and secure with nut (5, Figure 3). Tighten the nut to a torque of 30 Nm (22 ft.lbf).
10	Screw new insulation cap (4, Figure 3) from the kit on the thread of new insulating bushing (7, Figure 3). Tighten by hand.
11	Install the new cable terminal protective cap from the kit. Secure the cable terminal by using screw (1, Figure 3), coil spring lock washer (2, Figure 3) and washer (3, Figure 3). Tighten the screw to a torque of 40 Nm (30 ft.lbf).
12	Close the engine compartment rear door.

Procedure complete

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

VAN HOOL CUSTOMER PORTAL:

Consult the Van Hool customer portal 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.