

ADDRESSEES	: Owners and operators ABC Customer Care and Parts Source
VEHICLE MODEL	: CX45E, TDX25E
MANUAL CHAPTER	: 07.06 Steering system – Front axle steering system
BULLETIN TYPE	: Service information
DATE	: September 26th, 2024
SUBJECT	: Assembly instructions for 35-pin connector socket at inverter of power steering pump
CONDITIONS	: This service bulletin does not entitle to any reimbursement.

INTRODUCTION

Investigation has determined that contacts which are inserted too far into the connector socket during assembling could damage the contact locking fingers, causing over time operational reliability issues with respect to the steering pump.

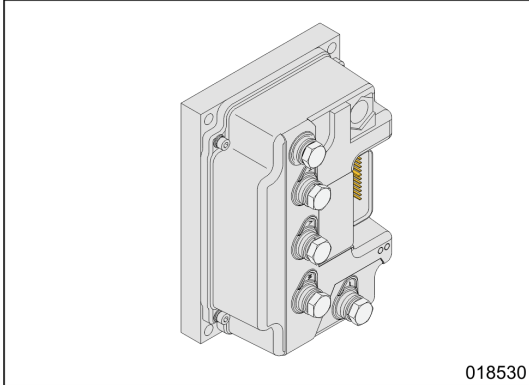


Figure 1: Inverter of power steering pump



Figure 2: Location of 35-pin connector on inverter

JOB QUALIFICATION

The task has to be carried out by an experienced automotive technician.

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PREPARATIONS

- Apply the parking brake.
- Switch off the traction system.
- Switch off vehicle ignition.
- **Read the entire procedure before starting to work.**



WARNING!

Observe safe shop practices at all times.

COMPONENTS

Spare parts



Figure 3

VH Reference	Description	Qty.
11547265	Connector socket (TE 776164-1)	1*
11174327	Female contact (TE 770854-1)	#
10869391	Seal plug (TE 776364-1)	#

* Suited for one inverter

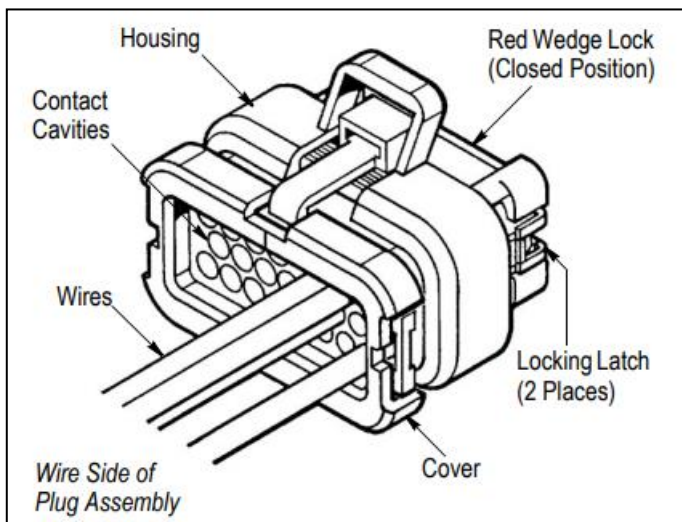


Figure 4: Connector socket parts

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CONNECTOR SOCKET CHECKING PROCEDURE

Step	Action
1	Locate the inverter.
2	Disconnect the 35-pin connector socket at the inverter.
3	<p data-bbox="331 342 416 427"></p> <p data-bbox="435 336 644 376">CAUTION!</p> <p data-bbox="435 398 1390 432">Be careful not to break anything when releasing the red wedge lock.</p> <p data-bbox="319 468 826 499">Release the red wedge lock as follows:</p> <ol data-bbox="319 521 1426 752" style="list-style-type: none"> Insert the tip of a screwdriver having a blade between 2 and 5 mm wide between the edge of the housing and one corner of the red wedge lock (refer to Figure 5). Gently pry the edge of the red wedge lock until it is released from (but not completely out of) the housing. Repeat these steps for the opposite corner of the red wedge lock. The red wedge lock is now in the open position (refer to figure 6). Pull the red wedge lock from the housing. <div data-bbox="352 770 887 1167"> </div> <p data-bbox="363 1182 469 1214">Figure 5</p> <div data-bbox="900 904 1437 1303"> </div> <p data-bbox="911 1323 1337 1379">Figure 6: Red wedge lock in open position</p>
4	<p data-bbox="319 1397 1406 1496">Check the condition of the contact locking fingers. The connector socket should be replaced if missing or bent contact locking fingers are determined when looking into the housing at the side where the red wedge lock is normally located.</p> <div data-bbox="422 1512 1315 1872"> </div> <p data-bbox="1198 1886 1303 1917">Figure 7</p>

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<p>5</p>	<p>If no missing or bent contact locking fingers are determined: re-install the red wedge lock and close it by simultaneously squeezing the locking latches inward, and pushing the red wedge lock into the housing until it is flush with the edge of the housing (refer to figures 8 and 9).</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div data-bbox="327 309 853 705"> </div> <div data-bbox="890 430 1428 831"> </div> </div> <p>Figure 8: Closing red wedge lock</p> <p>Figure 9: Red wedge lock in closed position</p>
<p>6</p>	<p>Reconnect the connector socket to the inverter.</p>

CONNECTOR SOCKET REPLACEMENT PROCEDURE

Connector contact removal

Step	Action
<p>1</p>	<p>Check that the red wedge lock of the connector socket is in the open position (refer to figure 6). If it is not, follow the instructions mentioned in step 3 under “Connector socket checking procedure” to bring the red wedge lock in the open position.</p>
<p>2</p>	<p>Gently pull the wire of the contact while rotating the wire (a quarter turn each direction) back and forth until the contact is removed from the housing.</p> <div style="text-align: right; margin-top: 20px;"> </div> <p style="text-align: right;">Figure 10</p>

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Connector contact insertion



CAUTION!

Do not remove the red wedge lock from the housing during insertion of the contacts!

Step	Action
1	Ensure that the contacts are properly crimped.
2	<p><i>NOTE: The new connector socket is supplied with the red wedge lock in the open position. DO NOT attempt to insert any contacts with the red wedge lock in the closed position.</i></p> <p>Check that the red wedge lock of the connector socket is in the open position (refer to figure 6). If it is not, follow the instructions mentioned in step 3 under “Connector socket checking procedure” to bring the red wedge lock in the open position.</p>
3	<p>From the wire side of the connector socket, align the contact with the applicable contact cavity, then insert the contact until there is an audible or tactile click (refer to figure 11). DO NOT force the contact. If the contact is difficult to insert, check that the red wedge lock is fully open.</p> <div data-bbox="395 831 1102 1368" data-label="Image"></div>
4	Pull wire slightly (force between 4 and 9 N) to ensure that the contact has engaged the retention fingers of the contact cavity (refer to figure 11).
5	Insert all other contacts.
6	Insert a seal plug, large end first, into every empty contact cavity as far as it will go to seal it.
7	After all contacts/seal plugs have been inserted, close the red wedge lock by simultaneously squeezing the locking latches inward, and pushing the red wedge lock into the housing until it is flush with the edge of the housing (refer to figure 9).

Figure 11

HELP DESK

If there are any questions, please call ABC Customer Care & Parts Source toll-free for guidance on 1-877-427-7278. Listen for the prompts for warranty and select that option.

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DISCLAIMER

The procedures contained herein are not exclusive. VDL 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 himself thoroughly that neither the safety of his 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 VDL Van Hool. If you do not have a password yet, request it by using the link on the Van Hool website.