



# SERVICE BULLETIN

## SB1251

<b>ADDRESSEES</b>	: Owners and operators of coaches listed under 'Application'
<b>VEHICLE MODEL</b>	: TD925 US with dual tires on trailing axle
<b>SYSTEM/SUBSYSTEM</b>	: Axles – trailing axle
<b>BULLETIN TYPE</b>	: Service Information
<b>DATE</b>	: December 10 <sup>th</sup> , 2013
<b>SUBJECT</b>	: <b>To check trailing-axle toe</b>
<b>TERMS &amp; CONDITIONS</b>	: Carrying out this procedure does not entitle to any reimbursement.

### **APPLICATION:**

The Service Information, subject of this Bulletin is applicable to following units:

Model	VIN
<b>TD925 US</b>	<b>42630 – 42647; 42691 – 42739</b>

### **DESCRIPTION:**

The above-mentioned units have a hydraulically steered trailing axle with dual tires. This Service Bulletin describes the procedure to check and, if necessary, adjust the toe to the values mentioned in this Service Bulletin.

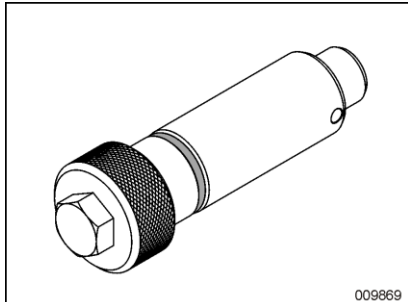
### **EQUIPMENT CONDITION:**

- Vehicle above inspection pit
- Parking brake applied
- Chocks in front of and behind drive axle wheels
- Straight-ahead position of front wheels checked
- Trailing-axle wheels on turntables

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## **SPECIAL TOOLS:**


**Table 1: special tools**

Description	Part number	Quantity	Figure
Aligning pin	Van Hool No. 11305140	1	

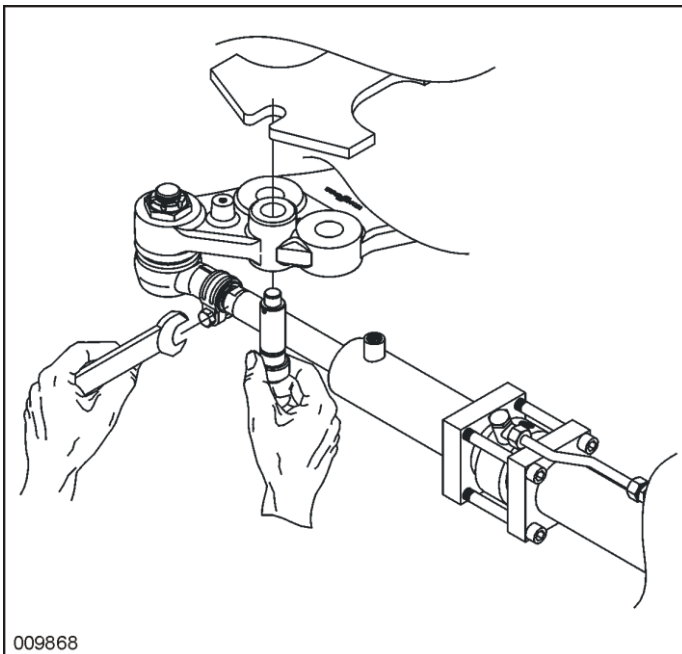
## **OPERATING SEQUENCE:**

Step	Action
1	Check mid-position of steering cylinder. For procedure, refer to "To check mid-position of steering cylinder" further on.
2	Check mid-position of angle sensor. For procedure, refer to "To check mid-position of angle sensor" further on.

## **TO CHECK MID-POSITION OF STEERING CYLINDER:**

Step	Action
1	<p>Start the engine and let it run until the messages "TEST" and "INIT" have disappeared from the dashboard display. The system has now run through its self-test and the pressure accumulator in the hydraulic circuit is pressurized.</p> <div data-bbox="762 1281 1098 1411"></div>
2	<p>Shut off the engine.</p> <p>The steering cylinder is now hydraulically put in the mid-position by the pressure in the accumulator.</p>

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<p><b>3</b></p>	<p>With aligning pin VH11305140, check whether the intermediate lever of the trailing-axle steering is in the mid-position. The intermediate lever is in the mid-position if you can pass the aligning pin through the hole in the intermediate lever into the opening in the chassis.</p> <p>Is the intermediate lever of the trailing-axle steering in mid-position?</p> <ul style="list-style-type: none"> <li>• If so, proceed with step 4.</li> <li>• If not, adjust the steering-cylinder length (for procedure, refer to chapter 7.14 in the maintenance manual) until the aligning pin fits and then proceed with step 4.</li> </ul> <div data-bbox="545 537 1230 1189">  <p>009868</p> </div>
<p><b>4</b></p>	<p><b>NOTE:</b> If the trailing-axle wheels are not aligned, first check the steering system and wheel suspensions for damage.</p> <p>With optical aligning equipment, check whether the trailing-axle wheels are aligned with the drive-axle wheels. While doing so, do allow for normal toe.</p>
<p><b>5</b></p>	<p>If necessary, adjust toe by altering the length of the tie rod of the relevant wheel. For procedure, refer to chapter 12.14 in the maintenance manual.</p>

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## **TO CHECK MID-POSITION OF ANGLE-SENSOR:**

<b>Step</b>	<b>Action</b>
<b>1</b>	Start the engine and let it idle while checking.
<b>2</b>	Put the front wheels in the straight-ahead position.  The trailing-axle wheels are now hydraulically put in the straight-ahead position.
<b>3</b>	With optical aligning equipment, check whether the trailing-axle wheels are aligned with the drive-axle wheels. While doing so, do allow for normal toe.  Are the trailing-axle wheels aligned with the drive-axle wheels? <ul style="list-style-type: none"><li>• If so, the procedure has come to an end.</li><li>• If not, re-set the mid-position of the angle sensors on the front and trailing axle and teach their new mid-position to the control unit. For procedure, refer to chapter 7.10 in the maintenance manual.</li></ul>
<b>4</b>	Check the toe.

## **TRAILING AXLE GEOMETRY:**

<b>Castor</b>	0°
<b>Camber</b>	0.5° ± 15'
<b>Kingpin inclination</b>	3° 30'
<b>Toe (degrees)</b>	0° (maximum 6' toe-in)
<b>Toe (inches)</b>	0 inch (maximum 0.02 inch/ft toe-in)

*End of procedure.*

## **INFORMATION HANDLING:**

Important supplements to and modifications of the technical information not yet included in the Van Hool manuals are communicated by means of Service Bulletins.

File the Service Bulletins at the back of your manual, in numerical order.

To make sure that you will be reminded of the Bulletins that have appeared in the meantime while paging the manual, mark the pages concerned by hand with the Service Bulletin number.