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AIR SPRING MEMBER REPLACEMENT 9700 (B13R)

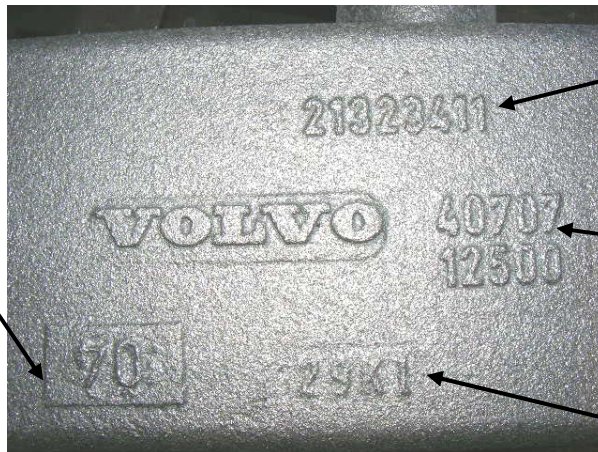
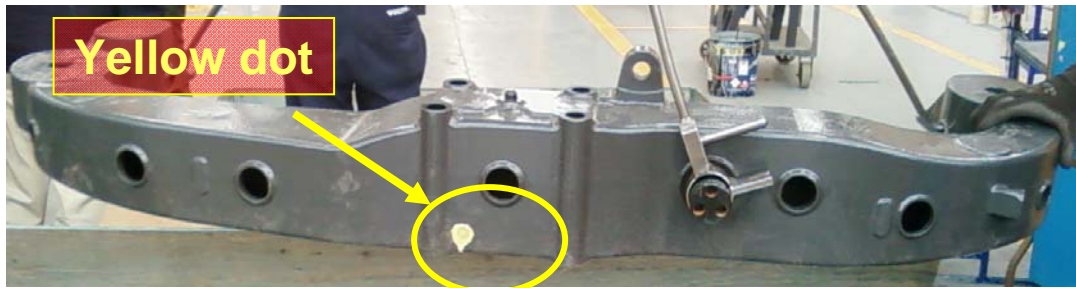
MODEL YEAR(S) AND VEHICLE SERIAL NUMBERS (VIN) INVOLVED

The following 2010 and 2011 year model 9700 are involved:

3CET2S229A5139243	3CET2S228B5143804	3CET2S22XB5143920	3CET2S228B5145729	3CET2S22XB5145926
3CET2S221B5142235	3CET2S22XB5143805	3CET2S221B5143921	3CET2S224B5145730	3CET2S228B5146461
3CET2S223B5142236	3CET2S221B5143806	3CET2S223B5143922	3CET2S220B5145918	3CET2S22XB5146462
3CET2S225B5142237	3CET2S223B5143807	3CET2S225B5143923	3CET2S222B5145919	3CET2S223B5146464
3CET2S227B5142238	3CET2S224B5143914	3CET2S227B5143924	3CET2S229B5145920	3CET2S227B5146466
3CET2S229B5142239	3CET2S226B5143915	3CET2S229B5143925	3CET2S220B5145921	3CET2S225B5147664
3CET2S220B5143800	3CET2S228B5143916	3CET2S220B5145725	3CET2S222B5145922	3CET2S229B5148252
3CET2S222B5143801	3CET2S22XB5143917	3CET2S222B5145726	3CET2S224B5145923	3CET2S220B5148253
3CET2S224B5143802	3CET2S221B5143918	3CET2S224B5145727	3CET2S226B5145924	3CET2S226B5148659
3CET2S226B5143803	3CET2S223B5143919	3CET2S226B5145728	3CET2S228B5145925	

DESCRIPTION

On the vehicles affected by this bulletin, the left-hand and right-hand side air spring members are not compliant and have to be replaced as soon as possible and before the expiration of this bulletin. The new members can be recognised by the yellow dot they have and/or a sequence number of the casting, see pictures below.



Volvo Part number

Newly Introduced:
Sequence number

Foundry Part number

Date code production


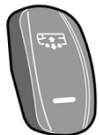

MATERIAL

Part No	Description	Qty
21323411	Air Spring Member LH	1
21323412	Air Spring Member RH	1
907861	Split pin 4x32	2
990962	M16 Lock Nut	4

PROCEDURE

DANGER

Before working on a vehicle, turn the vehicle ignition switch OFF, set the parking brakes, place the transmission in neutral, and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death. When disconnecting battery cables, disconnect the ground (negative) cable first to prevent personal injury from electrical shock.

<p>1. Block the front wheel tires.</p>	
<p>2. Lift up the vehicle with a hydraulic jack and jack up the frame in front of and behind the rear axle. It is not necessarily to remove the tires. <u>In fact the tires should have contact with the floor as a support for the drive axle.</u></p>	
<p>3. Release the drive axle bellows (air spring) air pressure. To do so, you can:</p> <p>press the lower part of the bus level control button</p> <p style="text-align: center;">or</p> <p>disconnect the valve block ECS drive axle.</p>	 

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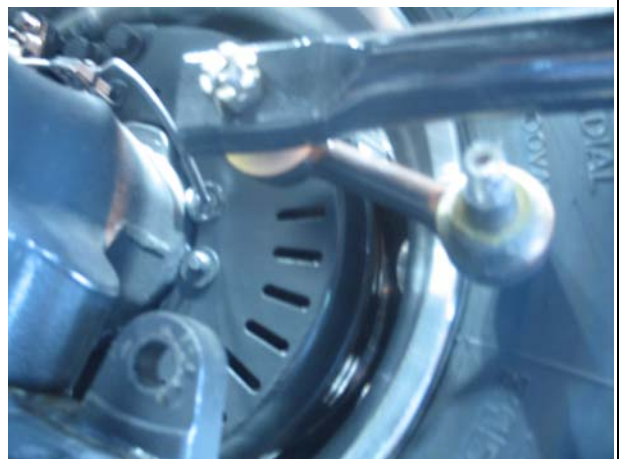
4. **Disconnect the air suspension level sensor rod from the member.**



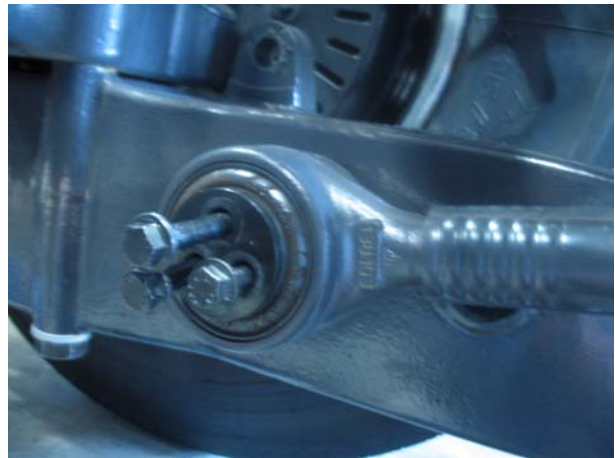
5. **Remove the shock absorbers lower nuts. Take care of the rubber bushings and washers.**



6. **Remove the split pin and loosen the lower ball joint to anti-roll bar from the member. Compress the shock so it loses its location in the member.**



7. Loosen and remove washer and screws securing the reaction rod to the member.



8. Loosen the bolts for the frame anchorage reaction rod. Remove the reaction rod. Take care of the shims. Identify the reaction rods with its origin place (left, right) so they end up on the same side even after the repair.



9. Place two hydraulic jacks under the member, one at the front and one at the rear.



10. Loosen and remove the bolts for the member anchorage to the drive axle. Lower the member using the jacks and remove the member.



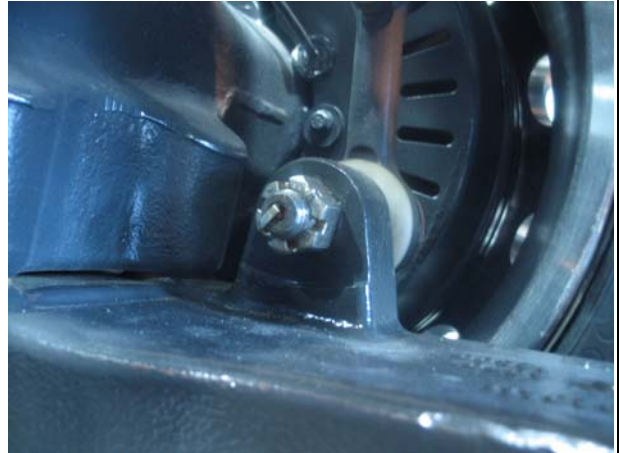
11. Place the new Air Spring Member on the jacks and lift it in to position. Make sure the locating pin in the member lines up with the locating hole in the rear axle.



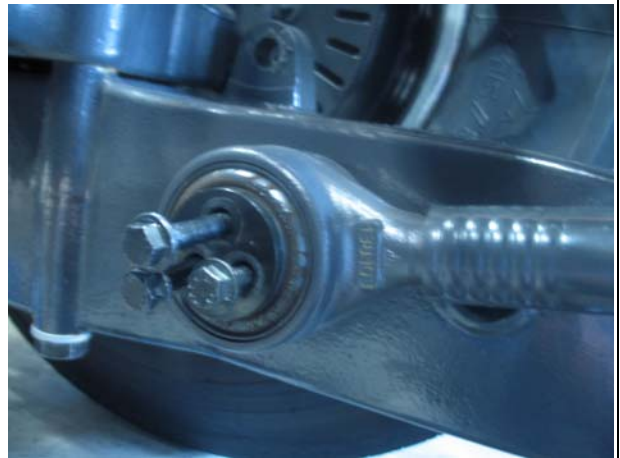
12. Tighten the bolts in sequence in three steps.
Step one 300Nm (221 lbf-ft)
Step two 550Nm (406 lbf-ft)
Step three 685Nm (505 lbf-ft)



13. Mount the ball joint for the anti-roll bar to the Member. Torque it to 200Nm (148 lbf-ft) and fit a new split pin (part # 907861).



14. Reassemble the reaction rod. Torque the bolts on the member to 85Nm (63 lbf-ft).



15. Use new flange lock nuts 990962 for the reaction rod. Torque the reaction rod to the frame at 220Nm (162 lbf-ft). Do not forget to put the shims back in position.



16. Reassemble the lower anchorage for the shock absorbers and tighten the nut to 115Nm (85 lbf-ft).

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17. **Assure that the air bellows are in the right position.**

18. **Fill the drive axle bellows with air.**

19. **Lift up the vehicle with hydraulic jack and remove the jacks.**



20. **Start the vehicle and let the air pressure build up. Check the height of the air bellows, adjust if necessary.**

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PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

WARRANTY

This modification is covered by Prevest's normal warranty. We will reimburse you 3.5 hours with two technicians for a total of seven (7) hours of labor upon receipt of a completed A.F.A. form on which you must specify as per "Warranty Bulletin 11-54".

TELL US WHAT YOU THINK!

We are interested in hearing your comments or suggestions regarding this bulletin. Please e-mail them to: TechnicalPublications@volvo.com

OTHER

VBC Campaign	S8733
Fail Code	16-00
Defect Code	00-09
System Condition	B
Causal Part	21323411

Prevest engages in a continuous program of testing and evaluating to provide the best possible product. Volvo Bus, however, is not committed to, or liable for updating existing products.