

VOLVO

Construction Equipment North America

ALERT

Release Date: January 6, 2004

Subject: Wheel Loader Product Update – Select L150E Loaders
Fuel line support and electrical cable routing checking/repositioning

Description of Product Update: Adding support bracket for fuel lines and checking electrical cable for scuffing/tightening terminal connections.

Reason for Product Update: To provide support bracket for fuel lines, preventing potential of fuel leakage. Check cable harness routing for scuffing and make certain electrical connections are secure per instructions.

Affected Models and Serial Numbers: L150E, per the serial number range listed below.

Machine	Serial No. (Arvika factory)	Serial No. (Asheville Factory)
L150E &	6001 thru 6977	63001 thru 63086

Action Required:

1. Install support bracket and change the number 4 injector delivery pipe, to insure the number 4 fuel pipe is new. This is a precautionary measure to eliminate a failure due to fuel pipe fatigue.
2. Inspect and check cable harness (starter to fuse box) for scuffing or insulation breaks. Adjust cable position if required. Secure cable connections at fuse box per enclosed instructions. Change affected electrical harness, if there is evidence of scuffing or damage.

Parts Required:

Description	New part number	Qty.
Washer	955922	If required
Support Bracket	11129144	1
Washer	955893	1
Clip	8194352	1
Bolt	13946934	1
Bolt	940100	2
Fuel Pipe	11129058	1

WARNING:

 Please follow all safety precautions indicated in the Service and Operators Manuals for the model to be updated. Please follow all proper repair procedures as indicated in the update instructions or in the Service Manual for the model to be updated. Volvo Construction Equipment North America is not responsible for damage resulting from the failure to follow these instructions.

Work Instructions

NOTE: If the fuel hoses or the cable harness are damaged, they must be replaced.

IMPORTANT: Turn off the battery disconnect switch before beginning work.

1. Check that the cable harness from the starter motor to the fuse box is not damaged. If required, adjust the position of the cable harness to eliminate the potential of scuffing.
2. Remove the cover from the fuse box. Check that lock washers are installed under the two M10 nuts where connecting tab and cable terminal are positioned. If the lock washers are missing, new lock washers must be installed. Check the tightening torque of all nuts in the fuse box. For tightening torque, please see text in fuse box, Fig. 1, 2 and 3. The tightening torques are the same as the listed torque values below:

M5 4 Nm (3 lbf ft)

M8 20 Nm (15 lbf ft)

M10 33 Nm (24 lbf ft)

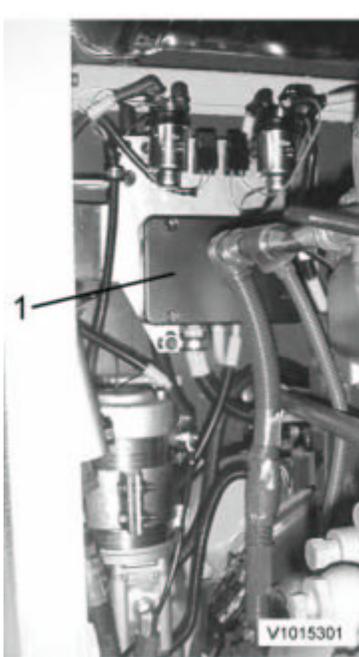


Fig.1 Fuse box

Fig. 2

1. Nut 2. Lockwasher

3. Check that the rubber/steel clamp, retaining the cable harness to the attaching plate, is properly tightened.

4. Re-install the cover on the fuse box, see Fig. 1.

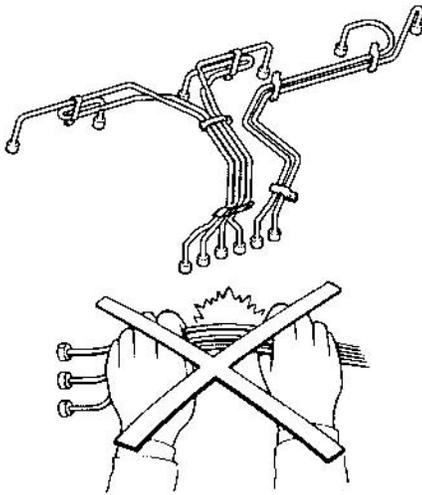


Fig.3 Torque values for tightening on fuse box

WLO01003 - L150E Installing Support Bracket for Fuel Delivery Pipes Attachment 1 - Work Instructions

Note: Before proceeding with the installation of the fuel pipe and support bracket, make sure the area around the number 4 injector on the engine and the fuel pump are absolutely clean.

1. Remove and replace the number 4 fuel delivery pipe. Remove all the existing clamps for the injector delivery pipes 4 thru 6. Re-install the clamps. Tighten the nuts to the following torque: 20-25 Nm (15-18 lbf-ft).



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Fig. 4. Fuel delivery pipes

The pipes, under any circumstances must not be bent or re-routed

2. Secure the new support bracket to the engine. Install the new steel-rubber clip around the delivery pipes and tighten down all the bolts. Adjust the bracket to remove any tension in the delivery pipes. The existing steel-rubber clip is to be positioned approximately 20 mm (0.8 in) from the new clip. See Figures 5 and 6.

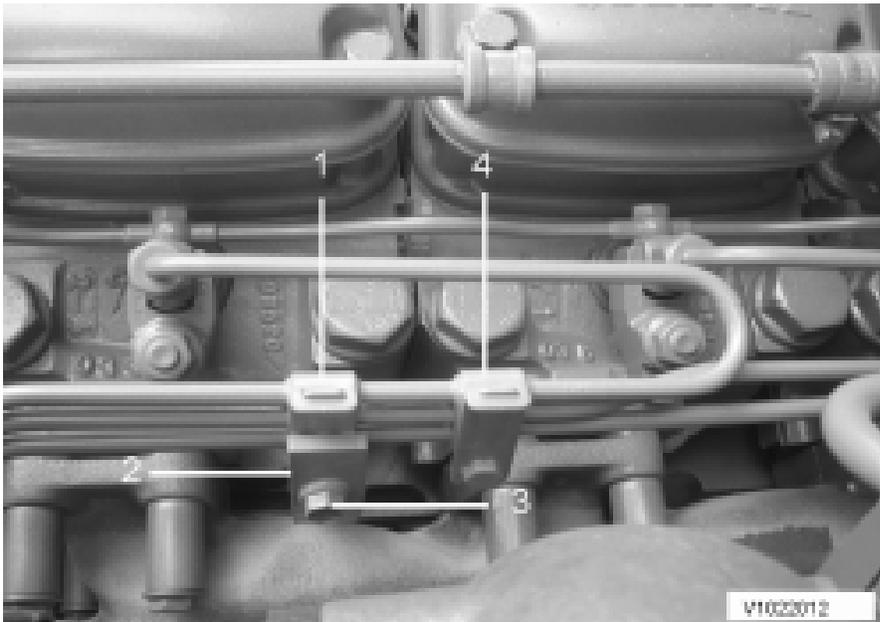


Figure 5.

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|--------------------|------------------|
| 1. Clip | 3. Bolt |
| 2. Support bracket | 4. Existing clip |

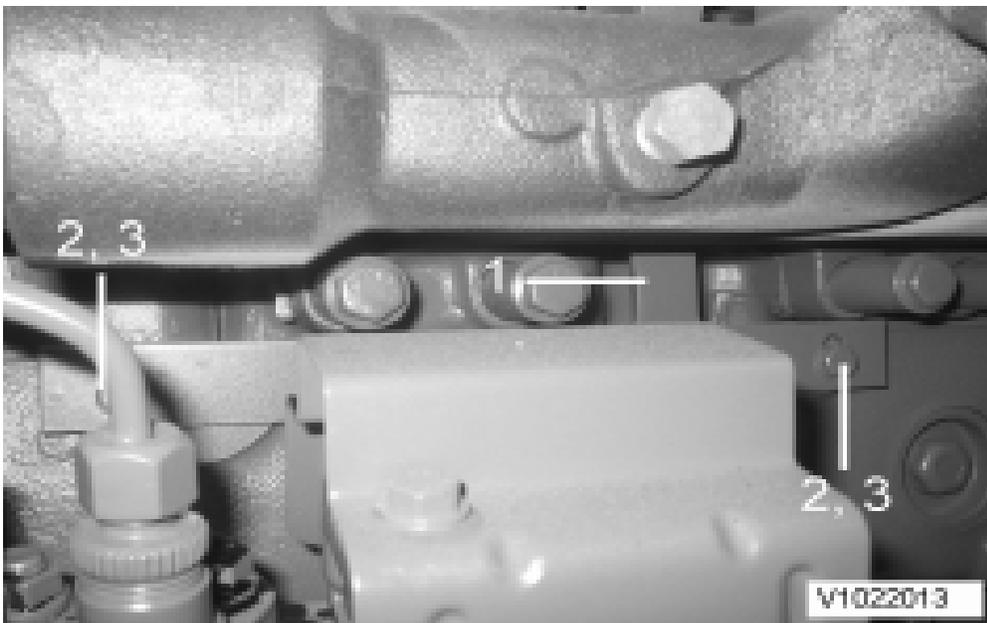


Fig. 6

- | | | |
|--------------------|---------|-----------|
| 1. Support bracket | 2. Bolt | 3. Washer |
|--------------------|---------|-----------|

3. After all work has been completed, start the engine and make sure all fuel lines are secure and there are no fuel leaks, before machine is put back in service. Stop the engine immediately if leaks are detected. Correct the leaking area/s.

If you have a machine that could be affected by this alert, please contact your local Volvo dealer. Find your closest dealer with the Dealer Locator on www.volvoce.com. If you have any questions or concerns, contact Volvo at techsupport.vcesna@volvo.com or 828-650-2001, option 2.