



Lull International, Inc.
3131 Highway 13
Eagan, MN 55121
Service Tel. (651) 686-1300
Service FAX (651) 686-1339



July 20, 2000

Product Update: 00-2

Attention: Authorized Sales and Service Center (SSC)
Principal or Service Manager

Subject: Lull Telescopic Material Handler 1044C-54 Boom Hose Update.

Model Type: This campaign involves Lull Model 1044C-54 Rough Terrain Fork Lifts with first auxiliary boom point hydraulic lines only. All involved vehicles were shipped after November 1, 1999.

Situation: Lull International, Inc. has received reports of premature hose wear and failure in the boom due to hydraulic hose and tube misalignment. All reported occurrences are of hose wear to the auxiliary hydraulic hose lines within the boom.

Solution: Lull International, Inc. ("Lull") has created a new kit to improve the service life of the boom hoses. This kit, Part Number 1101552, provides a new style of hose and sheaves in addition to other items to correctly position retaining clamps.

Program: INSTALLATION PROCEDURE

The procedure describes the recommended method of replacing the hydraulic hoses and guide items in the boom. During this procedure the hydraulic hoses will be removed inside the boom. While performing the steps listed below, do not operate the boom auxiliary line or nose tilt function. Also keep movement of the boom hoist cylinder to a minimum to avoid hydraulic oil spills.

1. Start machine, lower outriggers, level machine, extend Transfer Carriage to full forward position. Lower boom carriage to ground with fork tips also resting on ground. Set parking brake. Turn off engine. Remove tubes from hydraulic manifold block on underside of lower boom to drain hydraulic oil from lines. See item 13 on page 5.10.1.3 of the part's manual. **CAUTION :** The hydraulic lines are pressurized, use care when removing. After oil has drained replace tubes but do not tighten completely.
2. There are four tube clamps holding tubs along the underside of the outer boom. Remove the four clamps completely. Retract transfer carriage.
3. Disconnect inner boom hoses at the rear of the inner boom. Pull the hoses over the hose rollers & connect the male ends of the new hoses 1101505 to the old hoses to ease the installation of the new hose.
4. Extend boom to letter "C". Remove both hose sheaves.
5. Extend boom to letter "K". Remove the two tube clamps on the bottom of the rear-middle boom.
6. Retract boom to letter "G". Run transfer carriage forward 5 feet.
7. Disconnect manifold blocks on the front of the rear middle boom and disconnect all hoses.
8. Pull hoses through the front of the rear middle boom one set at a time.
9. Disconnect at the splice and connect the new hoses 1101505 to the manifold blocks.
10. Return manifold blocks to front of middle boom.

11. Retract boom to Letter "C". Retract transfer carriage completely.
12. Install the new hose sheaves 1101522.
13. Retract the boom completely. Connect the new hoses 1101505 to the tubes at the rear of the inner boom.
14. Extend the transfer carriage forward 5 feet.
15. Take the hoses that were removed from the rear middle boom and connect them to the hoses at the rear of the outer boom.
16. Extend the to letter "P". Locate the two U-bolt clamps on the bottom of the outer boom. Remove the nut closest to the extend cylinder on both clamps. Loosen the other nuts to allow clamp to be moved over hoses and turned 180 degrees.
17. Remove the manifold blocks on the front of the outer boom. Disconnect the hoses from the manifolds.
18. Pull hoses through the front of the outer. Disconnect the hoses at the splice and install the nylon hose sleeve 1101511 on the hoses. Reconnect the hoses with the nylon sleeve to the hoses in the outer boom. Pull all hoses through the rear of the boom and disconnect at the splice.
19. Connect all hoses to the manifold blocks, tighten and install the manifold blocks to the boom.
20. Reposition the two U-clamps on the bottom of the outer 180 degrees lifting up to retain hoses. Install the new plastic inserts 1101518 over the U-clamp studs and start the fender washers and nuts on the clamps.
21. Retract the boom completely. Connect the hoses at the rear of the outer boom.
22. At the front and rear of the inner boom, loosen the Hydra-zorb clamps. At the front of the inner, install new tube collars 1101513 on all the tubes, slide tubes forward all the way. See detail illustration A.
23. With tubes forward as far as possible, tighten Hydra-zorb clamps and then tighten all tube collars 1101513.
24. Extend boom to letter "K" and install two tube clamps on the bottom of the outer middle boom. Install the four tube clamps on the bottom of the outer boom. From rear of the boom, inspect hose alignment inside boom when boom is extended and retracted. Check that hoses are rolling correctly over hose sheaves and hose. Also check movement of hose sleeves through U-clamps to ensure sleeves and hoses are moving through smoothly.

Vehicles Affected:

1044C-5400AB19P20-670through 00AB19P20-929

WARRANTY: When installation has been completed, fill out a warranty form and mail to Lull Service Department.

Call the Lull Service Department at 651-686-1300 with any questions.