



PRODUCT SUPPORT BULLETIN BULLETIN NO. 355

DATE: **July 31, 2002**

MACHINE: **LS Auto-Lift Rail Lifter**

SERIAL
NUMBER(S): **790500 and Above**

SUBJECT: **Repositioning of Rail Lift Cylinder Flow Control Valves**

These machines incorporate two **13 GPM Fixed Flow Control Valves** to insure that both Lifting Cylinders extend at the same speed. This allows equal lift of both rails. However, because these valves are connected to the Pressure Line of the Lifting Valves, they control oil flowing into the cylinder and will not control the speed of the cylinders while lowering the rail. Consequently the rail is lowered very fast with little or no speed control.

If the Flow Control Valves are connected into the Lifting Valve Tank Line, they will control the oil coming out of the Lifting Cylinders and will control both extending and retracting speed. The rail will be lowered and raised at a controlled speed. It is recommended that the Flow control Valves be re-piped from the pressure line of the Lifting Valves to the tank line.

Re-piping the Flow Control is very easy and only takes a few minutes per machine. See Page 2 for instructions to make this change.

NOTE:

It is also recommended that the Aluminum-body Flow control Valves, p/n 1603750, be replaced with Steel-body Flow Control Valves, p/n 1603752. The Steel-body Flow Control Valves have been proven more reliable and will give longer service than the aluminum-body valves.

Please contact the NORDCO Service Department at 1-800-445-9258 if you have any questions regarding this change.



Instructions to reposition the Rail Lift Flow Control Valves

1. Shut off the engine and follow proper Lock Out/Tag Out procedures.
2. Place a pan under the machine to catch any spilled oil. Drain the oil from the Hydraulic Tank.
3. Disconnect the hose between the Pump and Flow Control at the Flow Control. Do not disconnect the hose from the pump.
4. Remove the Flow Control from the Rail Lifting Valve “Press” port. Do not remove the fittings from the Flow Control or the Rail Lifting Valve.
5. Connect the hose from the Pump to the “Press” port of the Rail Lifting Valve.
6. Disconnect the hose between the Rail Lifting “EXH” port and the Hydraulic Tank at the tank.
7. Install the Flow Control to the Hydraulic Tank fitting. Make certain the arrow on the Flow Control points to the tank fitting.
8. Connect the hose from the Rail Lifting Valve “EXH” port to the Flow Control.
9. Repeat steps 3-8 for the second Flow Control.
10. Refill the Hydraulic Tank with clean hydraulic oil.

NOTE: If your machine is equipped with a small single-solenoid valve connected to the top of the Lifting Cylinder as described in PSB-267, they are no longer required and may be removed along with their associated hoses, flow controls and electrical fittings.

