

Service Procedure Rev. 2
Service Department
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Relief Settings

WARNING:

The hydraulic pump you will receive (or have received) is not adjusted for your specific machine. The pressure relief screw must be adjusted to lift the rated capacity of your machine. If your machine is operating with an improper relief setting or not raising the weight, the following steps should be taken for proper adjustment. Do not continue to run the pump if the relief valve operates, (loud hydraulic squealing noise indicates pump is relieving). The pump can overheat very quickly and be permanently damaged. To correct this condition, ensure the machine is not overloaded or make adjustments to the relief valve. Setting the relief higher than the rated capacity will cause structural damage to the machine.

Please note that the cap that covers the pressure relief adjustment must be on and tight with the sealing surfaces serviceable and clean before running the lift. Before making any adjustments ensure that the cap was already on, tight and has clean sealing surfaces at the cap to pump connection. Make sure to test after each adjustment with the cap on and sealed. Any questions or concerns call Southworth Service. In all cases inspect the sealing surfaces, cap to pump connection point, and verify they are in good condition. Some caps seal with a metal washer and some with an O-ring.

Please note this procedure applies only to our Hydraulic Power Units with standard Haldex and MTE pumps with the integrated pressure relief. Contact Customer Service with questions; please have your lift serial number available.

- 1) Place the appropriate capacity load on the lift and attempt to raise the load.
- 2) **For units with internal Hydraulic Power Units:** If the lift will not raise the load, remove the load, raise the lift and place the lift on the maintenance devices in accordance with the instructions in the owner's manual. **Units with External Hydraulic Power Units do not need to have the load removed or unit placed on maintenance chocks to perform the adjustment.**
- 3) Locate the relief valve adjustment cap and remove it. It will have a slotted or hex/Allen head screw under the cap.
- 4) Turn the relief valve adjustment (clockwise) one quarter of a turn, reinstall cap with seal and tighten as described above in this document.
- 5) Remove maintenance devices, internal HPU units only.
- 6) Lower lift, internal HPU units only.
- 7) Place the appropriate capacity weight on machine, and attempt to rise.
- 8) If lift does not rise, remove load and repeat steps one through seven until relief is set properly.

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