

Relief Settings for Hydraulic Pumps

Notice: Before performing any service on a machine read and understand all safety instructions in the owner's manual. Manuals are available free of charge. If you do not have one, please call the Customer Service Department at the toll-free number below.

Please note the following procedure applies only to Southworth's Hydraulic Power Units with standard Haldex and MTE pumps with the integrated pressure relief.

Notice: The hydraulic pump received from Southworth was 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 is not raising the weight, please follow the procedure below for proper adjustment.

Do not continue to run the pump if the relief valve is operating. You will hear a loud hydraulic squealing noise that indicates the pump is relieving. The pump can overheat quickly and be permanently damaged. To correct this condition, ensure the machine is not overloaded and/or make necessary adjustments to the relief valve. Setting the relief higher than the rated capacity will cause structural damage to the machine.

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. In all cases inspect the sealing surfaces and cap to pump connection point, and verify they are in good condition. Some caps seal using a metal washer, and some use an O-ring.

1. Place the appropriate capacity load on the lift and attempt to raise the load.
2. For machines 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.
3. Machines with external hydraulic power units do not need to have the load removed or unit placed on maintenance chocks to perform the adjustment.
4. Locate the relief valve adjustment cap and remove it. It will have a slotted or hex/Allen head screw under the cap.
5. Turn the relief valve adjustment clockwise one quarter turn, reinstall cap with seal and tighten as described above.
6. For internal HPU machines only: Remove maintenance devices and lower the lift.
7. Place the appropriate weight on the machine and attempt to rise.
8. If the lift does not rise, remove the load, and repeat steps one through six until relief is set properly.

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