

Owner's Manual

STACK BOX POSITIONER



SOUTHWORTH

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INTRODUCTION

This manual contains information to acquaint you with the safe and proper installation, use, and upkeep of the machine. You should ensure that this manual is available to personnel working with the machine and require its use by these personnel.

In the interest of safety, please read this entire manual carefully, and be familiar with its contents before you install, use, or service the machine. If you have any questions about any instructions in this manual, please contact your dealer or Southworth Products Corporation.

Southworth's product warranty is provided in the back of this manual. This instruction manual is **not intended to be or to create any other warranty, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, all of which are hereby expressly excluded.**

As set forth more specifically in the product warranty. Southworth's obligation under that warranty is **limited** to the repair or replacement of defective components, which shall be the buyer's **sole remedy. Southworth shall not be liable for any loss, injury, or damage to persons or property, nor for any direct, indirect, or consequential damage of any kind resulting from the lift table.**

SAFETY

The safety of all persons operating, maintaining, repairing, or in the vicinity of the machine is of paramount concern to Southworth. This is a powerful machine with moving parts, and is **capable of causing personal injury if proper precautions are not taken**. Therefore, throughout this manual, Southworth has identified certain hazards which may occur in the use of this machine and provided appropriate **instruction** or **precautions** which should be taken to avoid these hazards. In some cases, Southworth has also pointed out the **consequences** that may occur if Southworth's instructions or precautions are not followed. Southworth uses the following system of identifying the severity of the hazards associated with its products:

SIGNAL WORD

The word or words that designates a degree or level of hazard seriousness. The signal words for product safety signs are **“DANGER, WARNING and CAUTION”**.

“DANGER” Immediate hazard which will result in severe personal injury or death.

“WARNING” Hazardous or unsafe practice which could result in severe personal injury or death.

“CAUTION” Hazardous or unsafe practice which could result in minor personal injury or property damage

Please read and follow the instructions in this manual, including all safety instructions and Precautions, carefully and completely.

INSTALLATION INSTRUCTIONS

Preparations:

1. Before you start to install the machine, check for local codes and ordinances, which may apply in your area. It is your responsibility to obtain any necessary permits.
2. Read all of these installation instructions carefully. Be sure to read and understand all of the warnings!
3. If the hydraulic power unit will be mounted away from the machine. The power unit should be sheltered from the weather. It should be mounted within 30 feet of the machine to minimize the pressure drop in the hydraulic system. Be sure the hydraulic lines have been installed properly.

WARNING!

Protect the hydraulic power unit from rain or moisture. If the electrical parts in the power unit get wet, workers may be hurt by electrical shock or the electrical parts may fail.

WARNING!

The electric motor in the lift can create sparks. Do not install the hydraulic power unit in an area where flammable gases may be present.

Positioning the lift:

1. Remove the shipping material and unskid the machine.
2. Move the machine into position, supporting the base frame of the machine. Mount the machine on a firm level surface, if necessary, insert shims to level the machine. Install lag bolts to hold the

machine in place. Make sure to shim or grout under the base frame to prevent any flexing.

WARNING!

If the machine is mounted on an unstable surface, it may tip over when in use. You may be hurt, and the machine and or load may be damaged.

Hydraulic Connections

1. Mount the hydraulic power unit in a desired place.
2. Connect the hydraulic line between the hydraulic power unit and the machine.

WARNING!

Be sure that the hydraulic line will not be pinched by the machine during operation. If you allow the line to be pinched, the machine may not work properly. A hose may break, the machine may drop suddenly, and someone may be hurt.

CAUTION!

It is very important to keep the hydraulic oil free from dirt, dust, metal chips, water, and other contamination. Most of the problems with hydraulic systems are caused by contamination of the oil.

Electrical Connections

DANGER!

The machine may use a power supply of up to 460 Volt AC. This voltage can kill you. Do not work with the electrical parts unless you are a qualified electrician.

1. A machine with a 115 Volt power unit needs to have a designated outlet and breaker of at least 20 AMP.
2. A machine designed for three-phase AC, you must be sure the pump and motor is turning in the right direction. The machine should start to move quickly when you press the “up” or “down” button. If the machine does not move in 2 or 3 seconds, do not try to operate the machine! Exchange any two of the three-phase leads. If this does not correct the problem, please contact Southworth product Customer Service Department.

Testing

1. Check the level of the hydraulic oil. With the machine in the lowered position the tank should be full, add oil if necessary.
2. Clear the area around the machine. Remove any loose wires, lumber, or other material which might get in the way of the machine as it is in use.
3. Operate the machine through its full range of travel. The machine should rise smoothly with a

quiet humming sound, and lower smoothly and quietly. Raise and lower the lift a few times to check the clearances around the lift table.

WARNING!

As the machine moves “pinch points” are created. If you are standing too close to the machine when it is moving, your arm or leg may be caught in the moving parts, and you may be hurt. Stay away from the pinch points when the lift is moving.

Completing Installation

1. Test the machine with the rated load. If the machine does not move, and you hear a loud squealing noise, this means pressure relief valve is operating. Contact Southworth for instructions.

WARNING!

Do not continue to use the machine if this happens, the pump will overheat very quickly, and may be permanently damaged. Do not try to adjust the relief valve, you may overwork the machine. This can cause the machine to fail suddenly, and you may be hurt.

MAINTENANCE

All service should be done by qualified personnel. Qualified personnel should be able to read and understand wiring and hydraulic diagrams. They should be able to troubleshoot live electrical circuits safely and in accordance with accepted practice. **FOR SAFETY'S SAKE**, if in doubt, please contact your dealer or Southworth Products Corporation Customer Service Department at (207)878-0700 or (800)743-1000.

Before servicing the lift, read and understand this entire section and the section entitled "Operating Instructions."

Hazards

There are several hazards you should be aware of as you service the lift:

Before working on the machine be sure to insert any and all maintenance devices.

DANGER!

The machine may use a power supply of up to 575 Volts. This voltage can kill you. Do not work with the electrical parts unless you are a qualified electrician.

WARNING!

As the machine moves, "pinch points" are created. Keep hands, feet and loose clothing away from these pinch points. If your arms, hands or your clothing is caught, you may be hurt.

WARNING!

Do not change the setting on the relief valve in the pump. If you do this may damage the machine and you may be hurt. The relief valve has been included for the protection of all of the workers who use the machine.

WARNING!

Before working on the machine be sure to release pressure on the hydraulic system.

CAUTION!

The warning labels on the machine are there for the safety of the operator. If the labels are worn or missing, replace them.

Routine periodic maintenance

Every month:

1. Visually inspect the leg rollers, center pivot bushing and pins, cylinder clevis pins and bushings, and the upper and lower hinge pins and bushings.

- Apply oil or WD-40 to all parts listed above.

Note: although the bearings are "lifetime lubricated" their performance may be extended by additional periodic lubrication (WD-40).

2. Check the level and appearance of the hydraulic fluid. With the machine in the lowered position there should be about $\frac{3}{4}$ of an inch of air space in the tank or with the machine fully elevated there should be about $\frac{3}{4}$ of an inch of oil left in the tank. Use a dipstick to check the oil level, add oil if necessary. Change the oil if it has darkened from its original color, turned milky white, or if it feels gritty or sticky.

CAUTION!

It is important to use hydraulic fluid with the correct grade and properties. The hydraulic fluid the machine is provided with is Texaco Rando HD-32.

Every six months:

1. Check all of the hydraulic fittings and hoses, and repair the connections as necessary. Occasionally the fittings can be worked loose by vibrations from the machine.

WARNING!

If a hydraulic fitting becomes loose, or if a hydraulic hose breaks, the hydraulic fluid will escape from the system under pressure. If the machine is elevated when this happens, it will drop very quickly. Someone may be hurt, or the product or the machine may be damaged.

2. Remove the down valve from the pump and the solenoid. Disassemble and clean using compressed air. Reassemble and reinstall.
3. Drain all of the hydraulic fluid from the tank and cylinders and discard it.
4. Remove the suction filter from the tank. Clean by using compressed air. Reinstall and tighten all fittings.
5. Refill the tank with new hydraulic fluid.

Maintenance for machines

with high cycle package:

1. Every 10,000 cycles or every month, visually inspect the entire lift. Replace all worn or broken parts. Change the hydraulic fluid. Lubricate all pivot points and clean the roller tracks.
2. Every 30,000 cycles or every three months, visually inspect the entire lift. Check the motor starter contacts and limit switch. Clean and lubricate all pivot points. Replace all worn or broken parts. Replace all hydraulic filters and change the hydraulic fluid.

2 YEAR WARRANTY

Southworth Products Corp warrants this product to be free from defects in material or workmanship for a period of *two (2) years* of single shift usage from date of shipment, providing claim is made in writing within that time period. This warranty shall not cover modified designs for special applications, failure or defective operation caused by misuse, misapplication, negligence or accident, exceeding recommended capacities, failure to perform required maintenance or altering or repairing, unless alteration is authorized by Southworth Products Corp. Except as set forth herein, there are no other warranties, express or implied, including the warranties of merchantability and fitness for a particular purpose, all of which are hereby excluded.

Southworth Products Corp makes no warranty or representation with respect to the compliance of any product with state or local safety or product standard codes, and any failure to comply with such codes shall not be considered a defect of material or workmanship under this warranty. Southworth Products Corp shall not be liable for any direct or consequential damages arising out of such noncompliance.

Southworth Products Corp's obligation under this warranty is limited to the replacement or repair of defective components at its factory or another location at Southworth Products Corp's discretion. This is buyer's sole remedy. Except as stated herein, Southworth Products Corp will not be liable for any loss, injury or damage to persons or property, nor for direct, indirect, or consequential damage of any kind, resulting from failure or defective operation of said product.

This warranty may be altered only in writing by Southworth Products Corp, Portland, Maine.



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