

**SOUTHWORTH**

# Lift-Tool™

(Part Number 4429108)

## Owner's Manual



Serial # \_\_\_\_\_

Placed in Service \_\_\_\_\_

November 2017

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## INTRODUCTION

**In the interest of safety, please read this whole manual carefully. Be familiar with the contents of this manual before you set up or use the Lift-Tool. If you are not sure of the proper procedure to be followed, please call Customer Service at 1-800-743-1000.**

For your safety, please read, understand and follow the information contained within, before use. The owner and operator shall have an understanding of this product and safe operating procedures before attempting to use. Instructions and safety information shall be conveyed in the operator's native language, before use is authorized. Make certain that the operator thoroughly understands the inherent dangers associated with the use and misuse of the product. If any doubt exists as to the safe and proper use of this device as outlined in this factory authorized manual, remove the lift from service, until safe and proper use is clearly understood.

This lift is specifically designed to lift and support up to rated capacity, for loads consisting of a frame that is compatible with the lifting member of the Lift-Tool.

Incompatibility is evident when the load wobbles, feels unstable, and/or does not securely set on the lift's top or bottom pans. Tying down incompatible loads will **not** make the load secure and may cause unexpected loss of load, resulting in personal injury and/or property damage. These lifts are **not** suitable for lifting humans, animals, lifting or leveling and/or positioning houses, construction trailers, automobiles and dwellings in general. This product does not contain independent lifting devices, but is designed to be permanently assembled.

# Responsibility of Owners and Users

### **Inspection and Maintenance**

The device shall be inspected and maintained in proper working order in accordance with Southworth's owner's manual.

### **Removal from Service**

Any device not in safe operating condition such as, but not limited to, excessive leakage, missing rollers, pins, or fasteners, any bent or cracked structural members, cut or frayed electric or hydraulic lines, damaged or malfunctioning controls or safety devices, etc. shall be removed from service until it is repaired to the original manufacturer's standards.

### **Repairs**

All repairs shall be made by qualified personnel in conformance with Southworth's instructions.

### **Before Operation**

Before using the device, the operator shall have:

- Read and/or had explained, and understood, the manufacturer's operating instructions and safety rules.
- Inspected the device for proper operation and condition. Any suspect item shall be carefully examined and a determination made by a qualified person as to whether it constitutes a hazard. All items not in conformance with Southworth's specification shall be corrected before further use of the equipment.

### **During Operation**

The device shall only be used in accordance with this owner's manual.

- Do not overload.
- Ensure that all safety devices are operational and in place.

### **Modifications or Alterations**

Modifications or alterations to any Southworth industrial positioning equipment shall be made only with written permission from Southworth.

# SAFETY ALERT SYMBOLS AND SIGNAL WORDS

The safety of all persons operating, maintaining, repairing, or in the vicinity of this equipment is of paramount concern. 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, certain hazards have been identified which may occur in the use of the machine, and there are appropriate instructions or precautions which should be taken to avoid these hazards. In some cases, there are consequences which may occur if instructions or precautions are not followed. Below are the symbols and signal words along with their definitions referenced from ANSI Z535.4 - Product Safety Signs and Labels.

## Safety Alert Symbols

These are the safety alert symbols. They are used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



For use with **DANGER** signal word  
(Red Background)



For use with **WARNING** signal word  
(Orange Background)



For use with **CAUTION** signal word  
(Yellow Background)

## Signal Words

The meaning of different signal words as defined by ANSI Standard Z535.4 indicates the relative seriousness of the hazardous situation.



(Red Background)

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.



(Orange Background)

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.



(Yellow Background)

**CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



(Blue Background)

**NOTICE** is used to address practices not related to personal injury.



(Green Background)

**SAFETY INSTRUCTIONS** (or equivalent) signs indicate safety-related instructions or procedures.

### **SAFETY**

Study, understand and follow all printed materials provided with and on this device. Do not exceed rated capacity. Ensure load is compatible with Lift-Tool's platform. Center load on platform. Move loaded lift **only** over smooth, level, seamless surfaces. Before moving, ensure load has been lowered completely. Slide loaded lift only on hard, level surfaces capable of sustaining rated capacity loads. Lift only on area of the load as specified by its manufacturer. Do **not** alter this product in any way. Do **not** use this product for any purpose other than that for which this device is intended. Failure to heed these messages may result in personal injury and/or property damage.

**Please read, understand and follow this user's manual,  
including all safety instructions and precautions.**

## INSPECTION

Do not use if cracked, broken, bent or otherwise damaged parts are noted, or if the lift is suspected to have been damaged during shipping. Any lift that appears to be damaged in any way, is worn or operates abnormally shall be removed from service immediately, until such time as repairs can be made. Do not attempt to weld, rivet or otherwise repair this device. **DO NOT** modify or alter this device. It is recommended that an annual inspection be done to this device by qualified persons, and that missing or damaged parts or labels, warning/safety decals be replaced with new ones, that are factory authorized.

## OPERATING INSTRUCTIONS

1. Position lift under appropriate lift points, centering load on lift plate. Be sure to center the load.
2. Install ¼" hex key into drill motor's chuck and tighten (hex key not supplied).
3. Install hex key into lift's height adjustment screw and start drill motor. Note direction of lift, and if lift is moving in opposite direction, reverse drill motor's rotation, and continue raising load.
4. Only after centering and leveling the load, slowly and carefully raise the lift by the drill motor.
5. To **lower** lift, reverse rotation of drill motor, and carefully and slowly lower lift to lowest position. **DO NOT** move or pry on the lift in the raised position.

## CARE AND MAINTENANCE

**Note:** When lift is not in use, lifting arms should be stored in the fully retracted position. Keep lift clean and well lubricated.

### MAINTENANCE:

- Keep the area around the unit clean. Do not allow any dirt, debris or spillage to collect. These materials may damage the lift mechanism or may become entangled in the lifting mechanism.
- Check for broken or cracked components. Remove from service or repair immediately.

### EVERY 25 CYCLES:

- Check for loose hardware and signs of excessive wear.
- Wipe any dirt or debris from screw and nut(s) assemblies. Clean areas where leg slider blocks travel.
- Lubricate screw with white lithium grease only. Do Not Use Oil.
- Leg slider blocks do not require any lubrication.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
WILL NOT LIFT LOAD	Battery low on portable drill Load too heavy for lift Drill rotating in wrong direction Scissor jack bent or broken Scissor jack nuts sieged	Recharge battery Reduce load Reverse drill rotation Purchase new scissor jack Purchase new scissor jack
WILL NOT LOWER LOAD	Battery low on portable drill Drill rotating in wrong direction Scissor jack bent or broken Scissor jack nuts sieged	Recharge battery Reverse drill rotation Purchase new scissor jack Purchase new scissor jack
LOAD RAISES AND LOWERS, BUT PORTABLE DRILL IS LABORING	Battery low on portable drill Load too heavy for lift Scissors jack or legs bent  Screw is dry	Recharge battery Reduce load weight Purchase new scissors or legs Lubricate with white lithium grease

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