

ADVANCE LIFTS

Installation, Operation and Maintenance Manual for the Following Equipment:

MODEL SL-S



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SECTION 2: INDEX & INTRODUCTION

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Introduction

Congratulations, the equipment that you have purchased is of the highest quality available. Your Advance Lift will provide you years of trouble free service in return for the minimal maintenance described in this manual.

Please be sure that no individual is allowed to operate the unit until they have been fully familiarized with the operating instructions in this manual. Also, insure that at least one person at the lift site is familiar with the maintenance section of this manual and is assigned responsibility for doing the maintenance on a regular basis.

Please note that the lift has a metallic data sticker attached to it that contains information such as the model number, capacities, and serial number. Do not remove this data sticker. Be sure that no operator ever exceeds the capacities shown on the data sticker or they may cause damage to the unit or injure personnel.

The Advance Lifts Model SL-S is a mechanical palletizer that will automatically adjust the unit height depending on the number of springs installed and the weight placed on the turntable. The unit can be utilized in two ways, palletizing and de-palletizing. Adding or removing springs allow you to adjust the capacity of the unit.

Specifications

Load Capacity.....	4500lbs (Max)
Turntable Diameter.....	43" inches
Base Frame Dimensions.....	23.75" x 39.5" inches
Lowered Height.....	9.5" inches
Raised Height.....	28" inches
Net Weight.....	380lbs., with (3) springs installed

Responsibilities of Owners/Users

Inspection and Maintenance: The unit shall be inspected and maintained in proper working order in accordance with this manual and safe operating practice.

Removal from Service: Any unit not in safe operating condition shall be removed from service until it is repaired to the original manufacturer's standards.

Repairs: Authorized personnel in conformance with the manufacturer's instructions shall make all repairs.

Operators: Only trained and authorized personnel shall be permitted to operate the unit. They must understand to be alert to hazards during all operations.

Before Operation: Before using the unit, the operator shall have:

1. Read and understood the manufacturer's operating instructions and warnings, or been trained by a qualified person.
2. Inspected the unit 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 unsafe items shall be corrected before further use of the unit.

During Operations: The unit shall be used only in accordance with its intended use and within the manufacturer's limitations and rules:

1. Do not overload the unit.
2. Insure that all protective devices are operational and in place.
3. Insure that all personnel near the operating unit understand to stand back so that no body parts can be pinched by the mechanism or platform and any items that may fall off the unit will not strike them.

Modifications or Alterations: Modifications or alteration of Advance Lifts products shall be made only with written permission from Advance Lifts Inc. in conformance with all applicable provisions and shall be at least as safe as the equipment was before modification. These changes shall also satisfy recommendations of the original equipment manufacturer for the particular application of the unit.

Approximate Load Amounts to Fully Lower Platform:

Main Spring Only:	500lbs.
Main Spring + Second Spring:	1600lbs.
Main Spring + Second and Third Spring:	2800lbs.
In all cases the maximum capacity:	4500lbs.

Warning Labels

Advance Lifts uses the following labels on our products to identify the severity of the hazards associated with this product.

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

WARNING! Hazard or unsafe practice which could result in severe personal injury or death.

CAUTION! Hazard or unsafe practice which could result in minor personal injury or property damage.

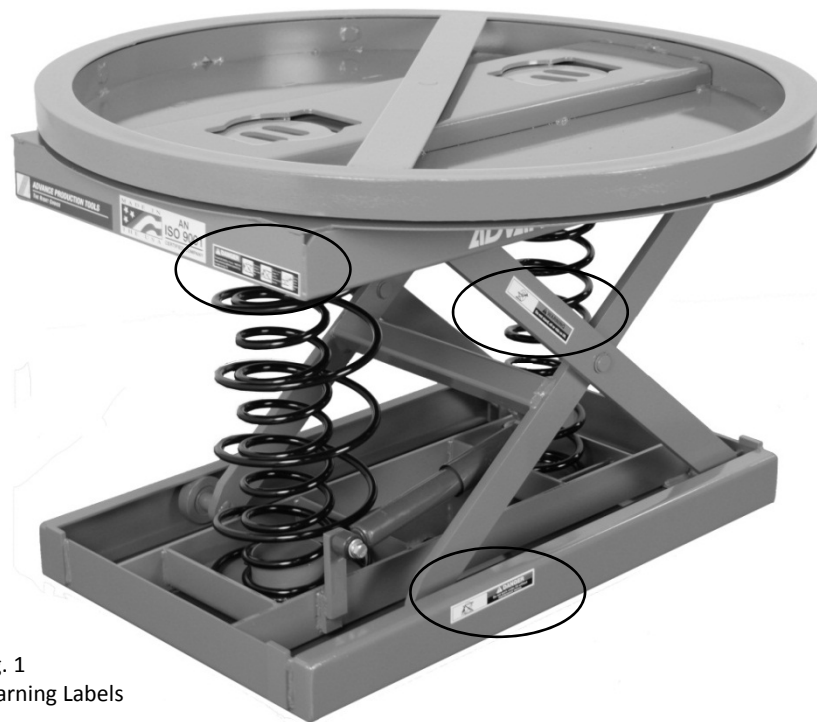

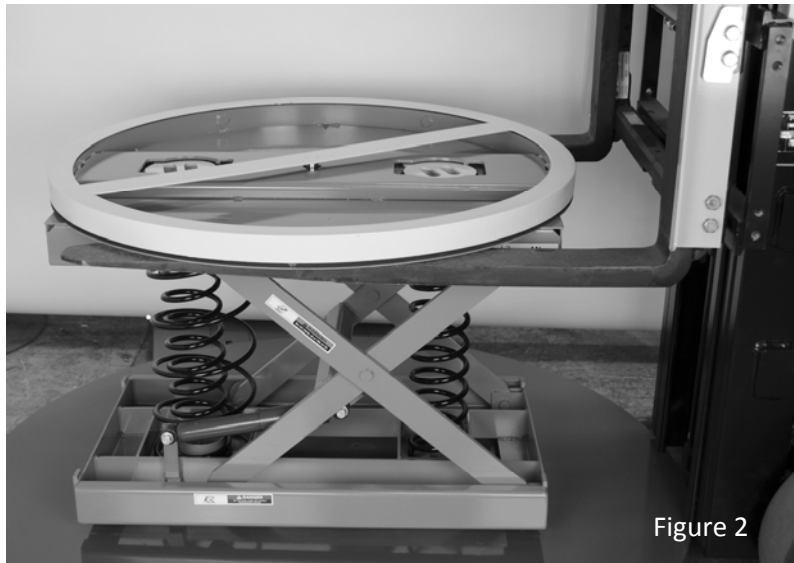


Fig. 1
Warning Labels

Installation Instructions

1. The unit is shipped fully assembled with maximum capacity of springs installed, no assembly is required.
2. Remove the shipping bands and packing materials. Be certain to retain the owners' manual for future reference.
3. Using a forklift, straddle the platform with the forks to lift the unit and maneuver. (Figure 2.)

 WARNING
Upon receipt of equipment, make certain the springs are seated properly and that all three springs are in place. Ill seated springs may dislodge causing damage or injury.

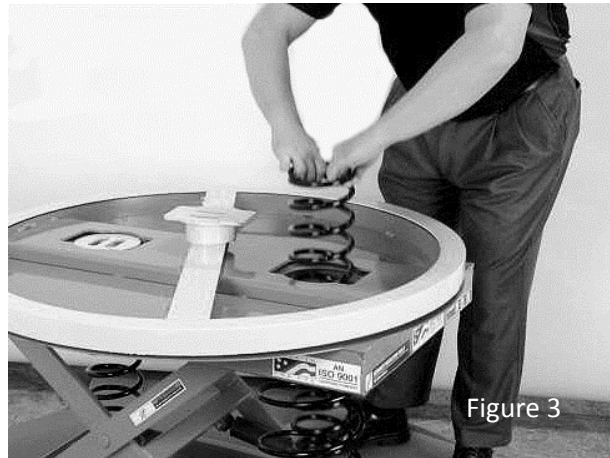


4. The unit must be placed on a flat, smooth and level surface.
5. Be certain the base frame is sitting firmly on the floor and that the unit does not rock or tip.
6. If you have any questions concerning the installation, call Advance Lifts at 800-843-3625.

 WARNING
The unit must be installed on a level surface. The base frame of the unit must sit securely on the floor and the floor must be level. If the base frame is not fully supported the unit may not function as expected.

Adding or Removing Springs

1. Remove any load from platform.
2. Remove the spring collar retaining Pin.
3. Remove the springs by rotating the retaining collar counterclockwise to align the retaining tabs with the cut-outs in the platform.
4. Lift spring out. (Figure 3.)
5. Only two of the three springs are removable in this way. Do not attempt to remove the third spring.



CAUTION

Only the two smaller springs can be removed. The largest spring must remain in place at all times. Removing all the springs without supporting the platform will cause the unit to fall uncontrollably causing injury or damage to the equipment.

Operating Instructions

Loading Manually

Once an empty pallet is placed and centered on the unit, begin adding the load one layer at a time until the pallet is full. Rotate the load as items are added to load the unit evenly. Do not use the ring to rotate the load.

Removing Loads Manually

Once a fully loaded pallet is placed and centered on the unit and the unit settles to a stabilized height, you can begin removing the top level boxes. Rotate the load to evenly remove product from the pallet.

Operating – Manual Use

1. Do not overload the unit. See page 4 for load information.
2. Make certain all pallets are in good condition. Damaged pallets can interfere with turntable rotation causing loads to shift suddenly.
3. Never stand or sit on unit.
4. Stand clear of rotating loads.
5. Do not rotate load with excessive speed or

WARNING

Always center the load and keep the load centered through all loading or unloading procedures. Off center loads have a greater potential of falling and they may damage the unit or cause injury.

WARNING

Make certain that the pallet is structurally sound, do not operate the unit if the pallet is broken or damaged. Nails, screws or broken boards can get wedged in the unit causing the rotation to stop suddenly and possibly shifting the load unexpectedly which may cause damage or injury.

WARNING

Keep back when rotating a pallet on the unit. When the pallet turns, portions of the load may strike you. Avoid rotating the unit if others are in the area. Damage or injury may result.


WARNING


Do not Sit, Stand or Ride on equipment. Do not operate equipment if someone is sitting, standing or riding on the equipment. Damage or injury may result.

loads may fall off the unit.

Fork Lift Loading


1. Center the load over the turntable surface before lowering it onto unit.
2. Lower the load slowly until the weight of the load is fully supported by the unit.
3. Be certain that the load is fully supported before removing the forks.

 WARNING
Care must be taken when adding a load to the unit. As weight is added to the unit the unit will begin to drop, make certain that you have lowered the pallet fully before attempting to remove the forks. Not following this warning may cause the load to fall, damage the unit or cause injury.

 WARNING
Do not drop loads onto unit. Lower loads slowly to allow the springs to compress evenly. Dropping loads may cause damage to the equipment or load.


Unloading with a Fork Lift

1. Rotate the pallet to align with forks.
2. Insert the forks fully into the pallet taking care not to hit the rotating ring with forklift.
3. Raise the pallet fully off the unit before moving the load.
4. Make certain the load is clear of the unit before moving the forklift.

 WARNING
Care must be taken when removing a load from the unit. Make certain the load is raised clear of the unit before attempting to back away from the unit. Not following this warning may cause the load to fall, damage the unit or cause injury.

Moving the Unit

1. Remove any loads before attempting to move the unit.
2. Straddle each side of the platform with the forklift forks.
3. The unit can now be lifted with the forks.

 WARNING
It is unsafe to move the unit with a load on the platform. Not following this warning may cause the load to fall, damage to the unit or cause injury.

Maintenance

Before Each Use

1. Visually inspect the unit for defects, excessive wear, stress cracks and loose/missing parts.
2. Spin the rotating ring to be certain of smooth movement.

Do not operate the unit if the rollers are sticking or if any other maintenance condition arises without consulting your maintenance department or Advance Lifts.

Troubleshooting

Problem	Possible Cause
Unit lowers to rapidly	Increase the number of springs (See Load Range, page 4)
Unit does not lower	Decrease the number of springs (See Load Range, page 4)
Unit spins as loads are applied	Level unit and space loads evenly on unit.
Unit bounces excessively	Replace shock absorber

Warranty

For a period of one year from date of shipment from the Company's plant, the Company agrees to replace or repair, free of charge, any defective parts, material or workmanship on new equipment.

Company authorization must be obtained prior to the commencement of any work. The Company reserves the right of choice between effecting repairs in the field or at the company's plant. The Company further reserves the right of final determination in all warranty considerations. Evidence of overloading, abuse or field modifications of units without Company approval shall void this warranty. No contingent liabilities' accepted.

Damage incurred in transport is the responsibility of the carrier and is not covered by this warranty. Any damage detected upon receipt of equipment should be immediately reported to the carrier. If you need assistance, contact Advance Lifts.