



INSTRUCTION MANUAL

FOR HAND WINCH LIFT TRUCKS

MODELS COVERED:

A-Lift-R



A-Lift-S



A-Lift-CB



MODEL NO. _____
SERIAL NO. _____

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Each hand winch lift truck conforms to the generalized specifications disclosed in this manual and fulfills our demanding standards for quality, safety and durability. This manual adopts relevant provisions of ANSI/ITSDF standard B56.10-2006, "Safety Standard for Manually Propelled High Lift Industrial Trucks".

SAFETY PRINCIPLES

Vestil Manufacturing Corp. recognizes the critical importance of workplace safety. Each person who might participate in the assembly, use, inspection or maintenance of the product must read the entire manual and fully understand the directions BEFORE assembling, using, inspecting or maintaining the A-Lift. If you do not understand an instruction, contact Vestil for clarification. **Failure to read and adhere to all of the directions in this manual prior to assembly, use, inspection or maintenance is a misuse of the product and could lead to serious personal injury or death.**

Vestil is **not liable** for any injury or property damage that occurs as a consequence of failing to apply the safe operation and maintenance procedures explained in this manual or that appear on labels affixed to the product. Similarly, failure to exercise good judgment and common sense may result in property damage, serious personal injury, or death, and are **not the responsibility of Vestil**.

This manual applies the hazard identification methods recommended for instruction manuals by the American National Standards Institute (ANSI) in ANSI standard Z535.6-2006. In accordance with ANSI guidelines, this manual identifies personal injury risks and situations that could lead to property damage with SIGNAL WORDS. These signal words announce an associated safety message. The reader must understand that the signal word chosen to identify a particular hazard conveys information about the seriousness of that hazard according to the following convention:

These symbols identify hazards that may result in personal injury



DANGER

Identifies a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.

WARNING

Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.

CAUTION

Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury. Although Z535.6-2006 approves the use of "CAUTION" without an accompanying safety alert symbol (black equilateral triangle with yellow exclamation point) as an alternative to "NOTICE", this manual differentiates between hazards that pose a risk of personal injury and those that create mere property damage situations. **CAUTION appears exclusively in conjunction with the safety alert symbol to identify injury risks.**

NOTICE

Identifies practices not related to personal injury, such as operation that could damage the A-Lift. Note: No safety alert symbol (equilateral triangle with an exclamation point inside) accompanies this signal word.

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PRODUCT INTRODUCTION



Thank you for purchasing a Hand Winch Lift Truck (“winch lift,” “A-Lift,” or simply “lifter”) made by Vestil Manufacturing Corporation (“Vestil”). Our winch lifts are durable, high-quality products that combine safety features and rigorous engineering. Although the winch lift’s operation is relatively intuitive, all personnel must familiarize themselves with the instructions provided in this manual.

Each A-lift is constructed from steel and aluminum parts, a combination of materials that provides strength and reduces weight. The lift improves efficiency and prevents injuries that could occur while lifting and moving materials. Use your A-Lift to move materials like boxes and office equipment.

The design includes lifting mechanisms actuated by a manual winch with a foldable handle. One complete, clockwise revolution of the handle raises the forks by 1 inch. Additionally, a pivoting carriage latch can be used to secure the fork carriage in a safe position for transport. Further product specifications appear in the following table:

Model	<u>Overall Size in Inches</u> (W x L x H)	<u>Maximum Rated Load in Pounds</u>	<u>Net Weight in Pounds</u>
A-Lift-R	24 x 35 x 68	500 (~227kg)	136 (~62kg)
A-Lift-R-HP	24 x 35 x 68	400 (~182kg)	140 (~64kg)
A-Lift-S	29 x 43 x 68	500 (~227kg)	140 (~64kg)
A-Lift-S-HP	29 x 43 x 68	400 (~182kg)	145 (~66kg)
A-Lift-S-EHP	29 x 43 x 79	350 (~159kg)	154 (~70kg)
A-Lift-CB	29 x 47 x 68	500 (~227kg)	396 (~180kg)
A-Lift-CB-HP	29 x 47 x 68	400 (~182kg)	418 (~190kg)
A-Lift-CB-EHP	29 x 47 x 79	350 (~159kg)	449 (~204kg)
A-Lift-DK (Deck Platform)	20-1/2 x 24-1/4		25 (~11kg)
A-Lift-PN: 10in. pneumatic rear wheels			20 (~9kg)

Vestil Manufacturing Corp. created this manual to acquaint owners and users of our winch lifts with safe use and maintenance procedures. However, **employers** are responsible for instructing employees to use the product properly. **Employees and any other persons, who might foreseeably use, install, or perform maintenance on the A-Lift, must read and understand every instruction before using it.** Furthermore, persons who use the Lifter should have access to the manual at all times, and should consult the directions before each use. Contact Vestil for answers to any question you have after reading the entire manual.

Although we strive to identify the foreseeable hazardous situations that could arise, this manual cannot address every conceivable danger. The end-user is ultimately responsible for exercising sound judgment at all times.

SAFETY GUIDELINES

Read the entire manual before you use the Winch Lift for the first time and before each subsequent use. Refer to the manual for safe use and maintenance procedures described on p. 7-13. If questions remain after you finish reading the manual, contact Vestil for answers. DO NOT attempt to resolve any problems with the Lift unless you are certain that it will be safe to use afterwards. NEVER modify the product in any way without the express, written approval of Vestil.

⚠ DANGER

- **Electrocution Risk: DO NOT contact electrical wires with the winch lift or load! Be aware of all overhead obstacles and take precautions to avoid contact with them.**

⚠ WARNING

- ALWAYS inspect the Lifter before each use according to the inspection instructions on p. 12. DO NOT use the Lifter unless it passes the inspection.
- Prior to each use, ALWAYS inspect the area where you intend to use the lifter. Inspect the area for unusual conditions that might require special precautions. See "Notice" on p. 10.
- DO NOT use a malfunctioning lifter. Always perform the "Function Test" described in the Notice on p. 10 before each use.
- Regardless of whether the lifter is loaded or unloaded, DO NOT stand or travel under the forks and DO NOT allow any other person to stand or travel under the forks.
- Inform all persons in the area that you are going to use the Lifter, and instruct them to stay clear of the device and the supported load during operation.
- ALWAYS make sure that your clothing and body do not contact the mast structure, lifting mechanisms, or carriage during operation. ONLY operate the lifter from the "Operator's Position," shown on p. 10. DO NOT move the lifter or raise or lower the forks unless you are in the operator's position.
- DO NOT allow people to ride the lifter.
- ALWAYS load the A-lift according to the list of recommendations that appears below. Failure to properly position a load on the forks (or platform) might cause the lifter to tip over and you could be injured as a consequence.
 1. DO NOT exceed the A-Lift's maximum rated load. The rated load (capacity) of your Lifter is posted on a product label as shown in Fig. 2 on p. 13.
 2. ONLY move loads using the forks or the optional deck platform ("load-engaging means").
 3. DO NOT handle off-center loads or loads that cannot be centered. ALWAYS properly center the load.
 4. Start and stop gradually to avoid upsetting the load from the forks/platform.
 5. NEVER tilt the lifter while carrying a load. All four castors must maintain contact with the ground when a load is on the forks/platform.

FIG. 1A: HP & EHP models have telescoping mast frame

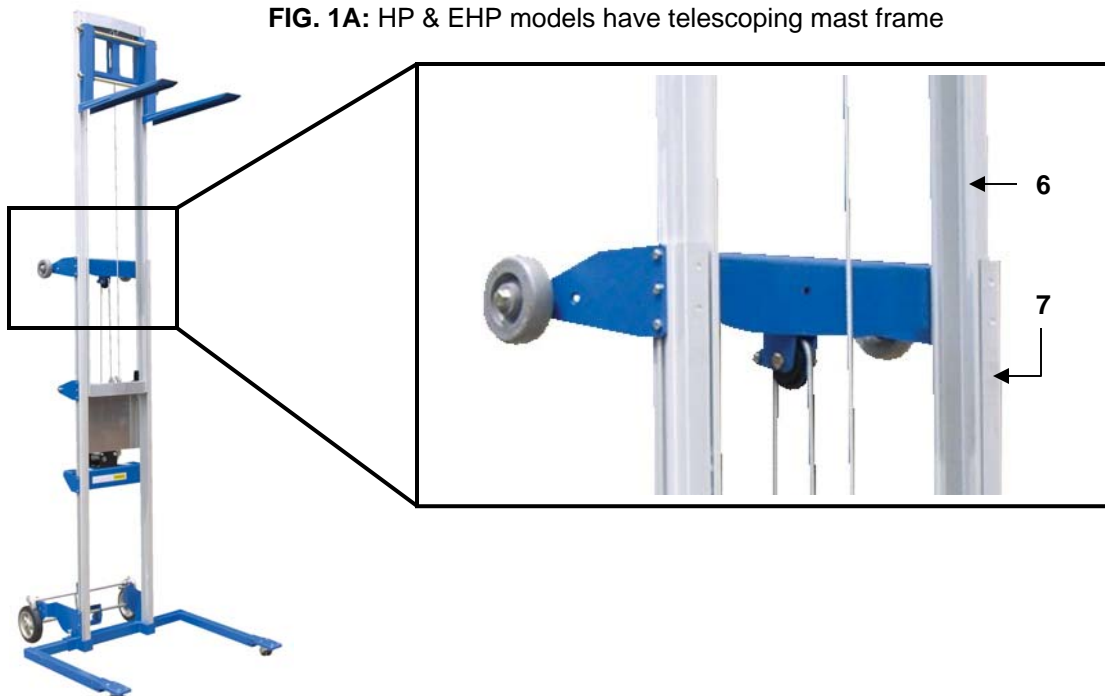
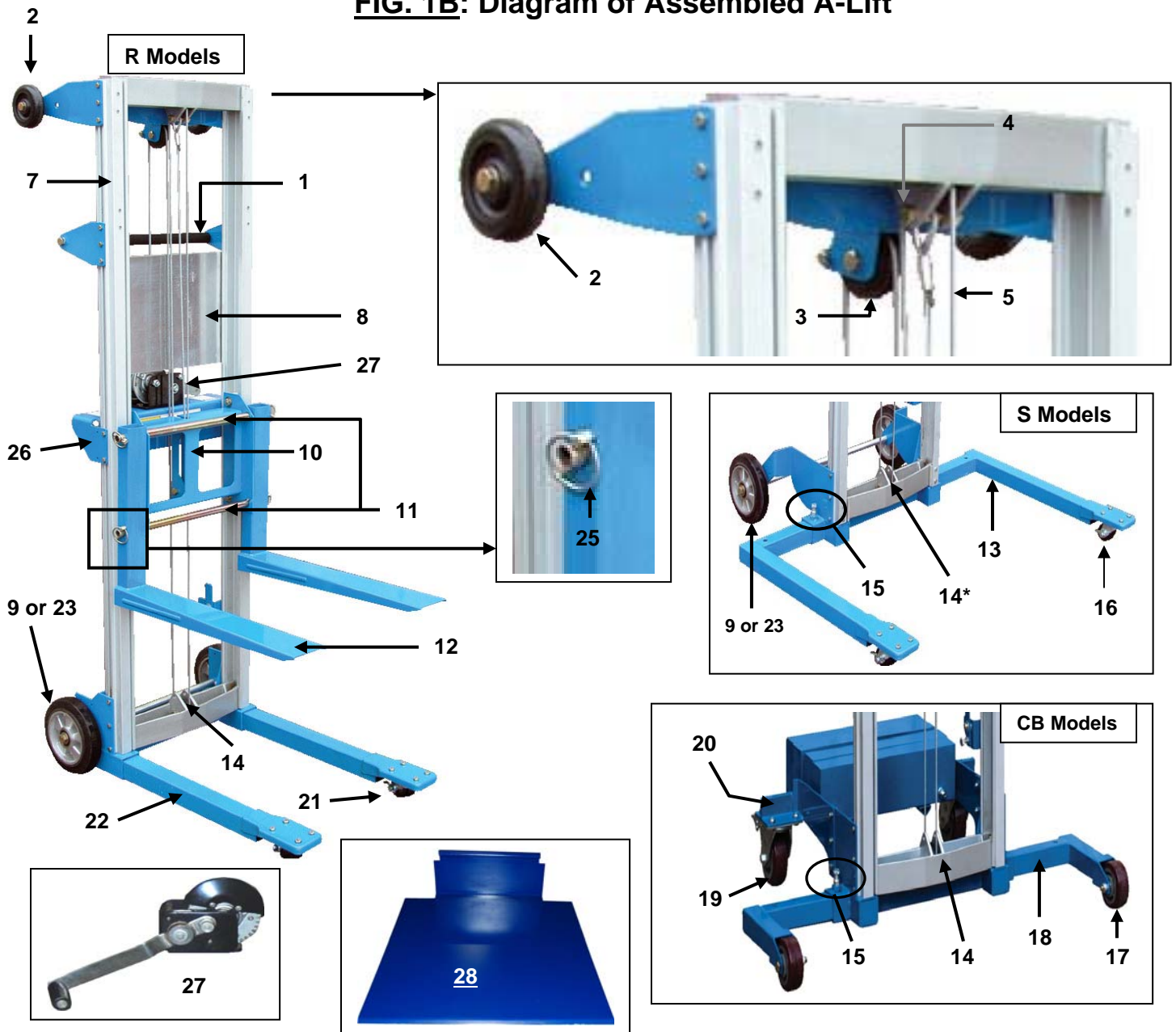


FIG. 1B: Diagram of Assembled A-Lift



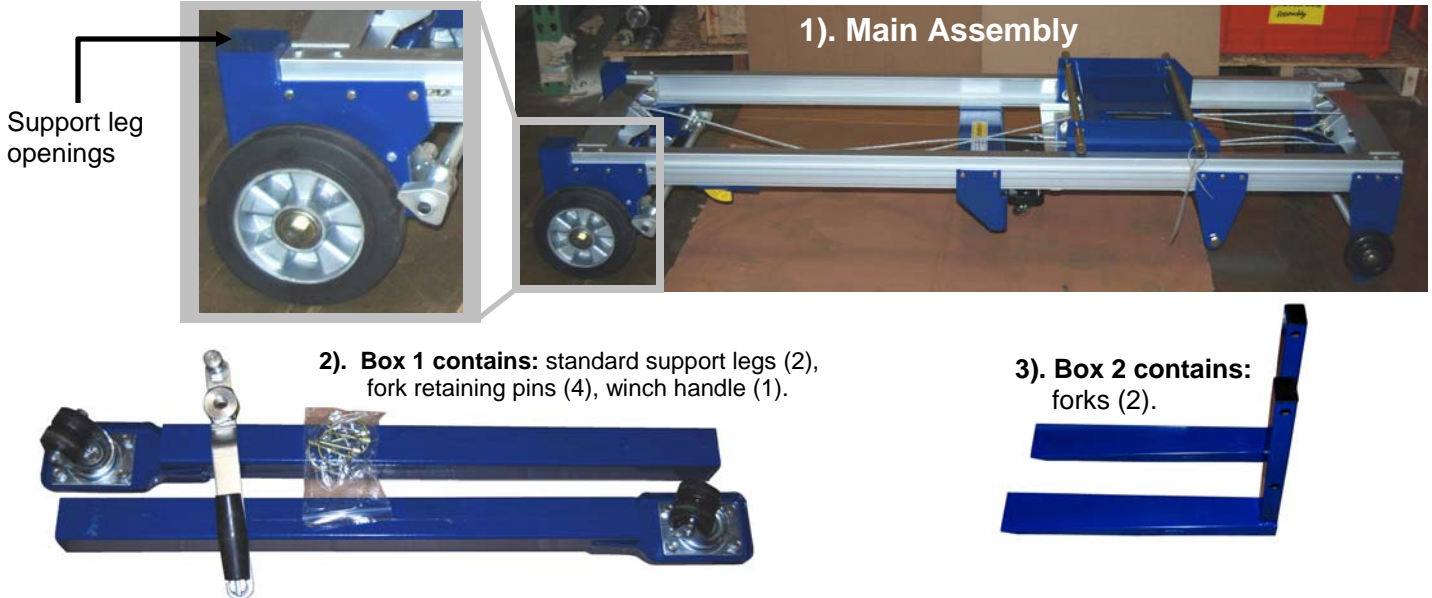
“Standard Units” refers to A-Lift-R, -S, & -CB models; “HP Units” means A-Lift-R-HP, -S-HP, and -CB-HP models; “EHP Units” indicates A-Lift-S-EHP and -CB-EHP models.

Diagram Number	Description	Part Number	Quantity	Diagram Number	Description	Part Number	Quantity
1	Operator Handle	A-Lift-1	1	15	Leg Lock Pin	A-Lift-CB-15	2
2	Loading Wheels	A-Lift-2	2	16	2 inch Castor	A-Lift-S-16	2
3	Upper Pulley	A-Lift-3	1	17	4 inch Fixed Wheel	A-Lift-CB-17	2
4	Cable Anchor Bolt	A-Lift-4	1	18	Adjustable Leg	A-Lift-CB-18	2
5	Cable (Standard Units) Cable (HP Units) Cable (EHP Units)	A-Lift-5 A-Lift-HP-5 A-Lift-EHP-5	1	19	5 inch Swivel Castor	A-Lift-CB-19	2
6	Telescoping Mast Frame (only HP & EHP Units)	A-Lift-6	1	20	Counterweight Support Weldment	A-Lift-CB-20	1
7	Mast Frame	A-Lift-7	1	21	Castor	A-Lift-R-21	2
8	Decal Plate	A-Lift-8	1	22	Standard Support Legs	A-Lift-R-22	2
9	Pneumatic Wheel	A-Lift-S-9	2	23	Solid Rear Wheel	A-Lift-23	2
10	Carriage	A-Lift-10	1	24	Brake	A-Lift-24	1
11	Carriage crossbars	A-Lift-11	2	25	Fork Lock Pin	A-Lift-25	4
12	Fork	A-Lift-12	2	26	Winch Mounting Bracket	A-Lift-26	1
13	Adjustable Leg S	A-Lift-S-13	2	27	Winch	A-Lift-27	1
14	Lower Pulley	A-Lift-14	1	28	Deck Platform	A-Lift-Deck	1
14*		A-Lift-S-14					

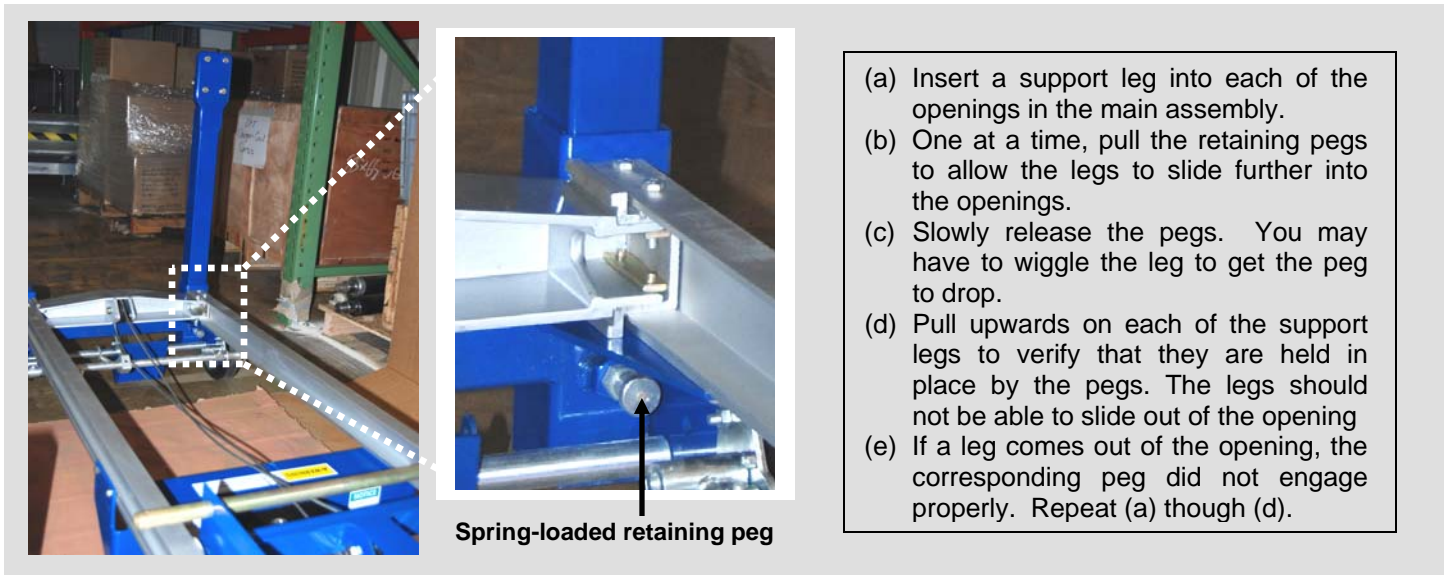
Assembly Instructions

Vestil ships winch lifts to its customers in a mostly assembled form. The minimal assembly that is required differs by model, so follow the directions that correspond to your lifter.

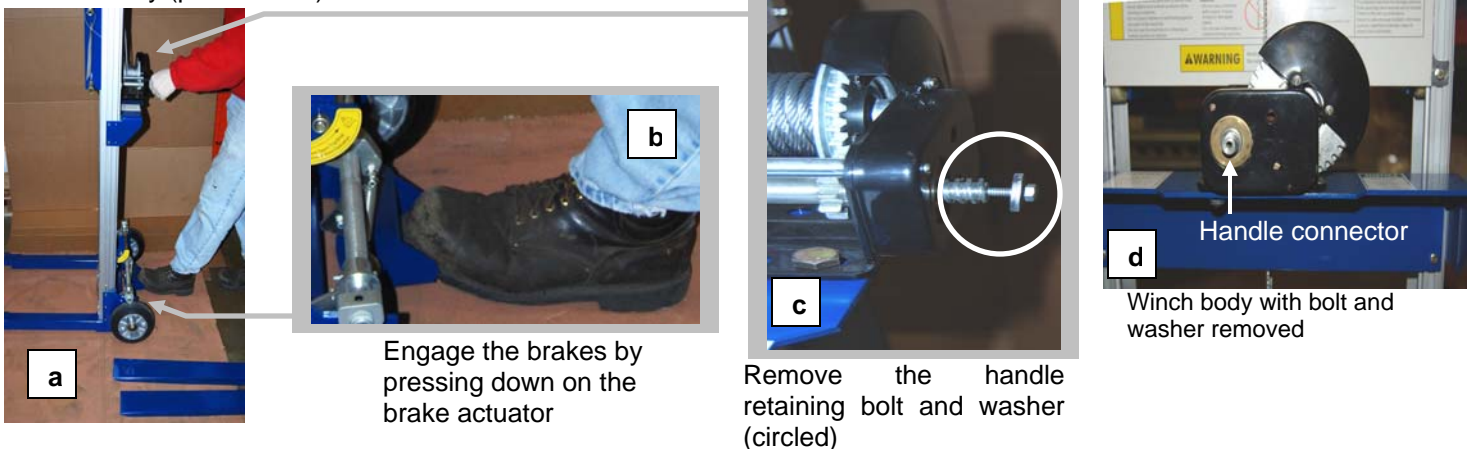
If you purchased an **A-Lift-R or A-Lift-S**, you will receive 3 pieces:



Step 1: Connect the support legs to the main assembly by following instructions (a) through (e).



Step 2: Lift the assembly to the upright position (photo a), lock the brakes (photo b) and fasten the winch handle to the winch body (photos c – f).





Slide the handle onto the handle connector

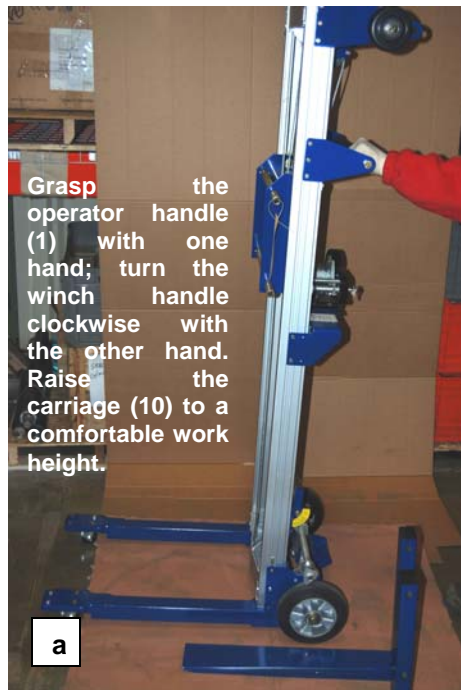


Set the handle latch pin (circled) to lock the handle, and then fasten the handle to the handle connector with the bolt and washer that you removed in step (c).

Note: It may be necessary to secure the washer against the bolt head with a nut BEFORE you fasten the bolt to the connector. This technique will prevent the bolt from loosening when the handle is rotated counterclockwise to lower the forks.



Step 3: Attach the forks to the carriage.



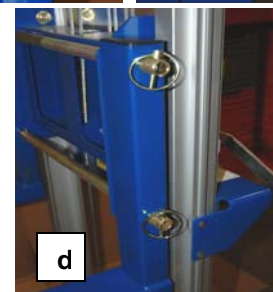
Grasp the operator handle (1) with one hand; turn the winch handle clockwise with the other hand. Raise the carriage (10) to a comfortable work height.

Instructions as shown in the photographs to the right:

b. Align the holes in the forks with the carriage cross-bars (11); then push the forks until they contact the carriage. *Note:* It may be necessary to tap the forks into place with a rubber mallet.

c. Slide fork retaining pins (25) through the holes in each of the carriage crossbars.

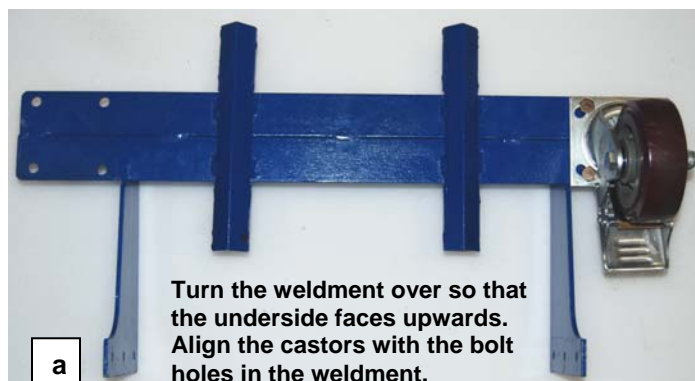
d. Lock the pins into place by swinging the ring portion of each pin downward



Step 4: Turn the winch handle counterclockwise to lower the forks. Lower the forks until they are a few inches above the support legs (22), and then push the lifter to the desired location.

Counterbalanced lifters (A-Lift-CB):

Step 1: Attach the 5 inch swivel castors (19) to the counterweight support weldment (20).



Turn the weldment over so that the underside faces upwards. Align the castors with the bolt holes in the weldment.

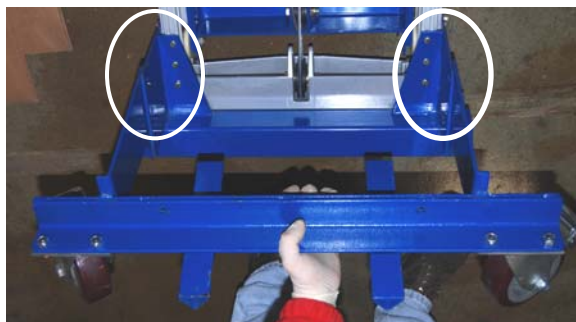
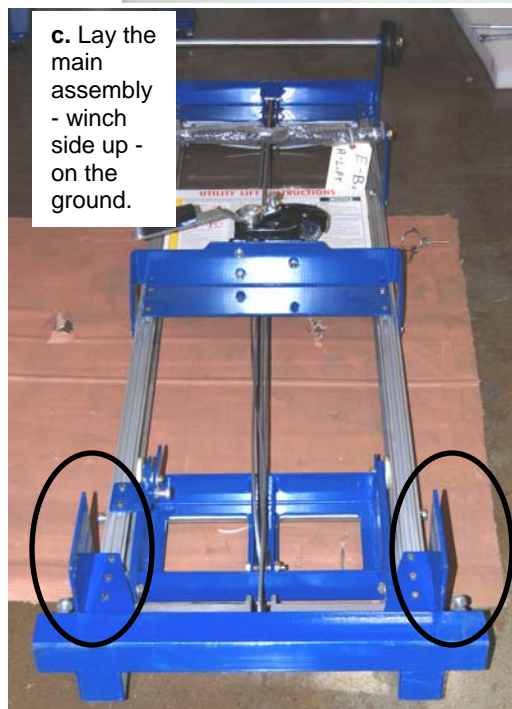
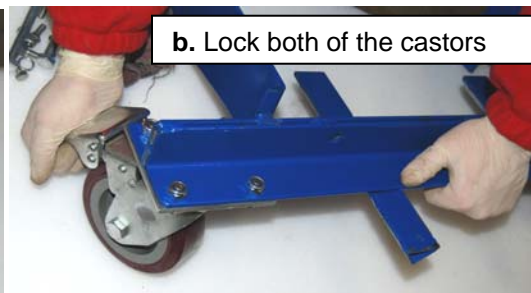


Nylock nut

Bolt

Drop bolts through each of the holes. Secure each bolt with a nylock nut. Tighten all of the connections with a pair of wrenches.

Step 2: Attach the weldment to the main assembly.



d. Align the bolt holes in the weldment with the holes present in the weldment brackets (circled in photos c & d).



f. Set the four counterweights on the weldment; then insert the counterweight retaining bolts beginning with the outermost weight.



g. Fasten the bolts in place using a flat washer, followed by a lock washer and then a nut.

Step 3: Install and position the forks by following R & S model fork installation steps 3 & 4 on p. 8.

Operation Instructions:

The operating instructions in this manual are meant to **supplement** the operation recommendations of ITSDF standard B56.10-2006. According to the standard, the A-Lift is a, "Manually propelled high lift industrial truck". Safe operation of this type of device is the operator's responsibility.

⚠ WARNING

DO NOT operate the winch lift until you read AND understand all of the instructions. If you do not understand an instruction, contact Vestil for clarification.

- Review ALL of the safety guidelines on p. 5 before each use;
- ALWAYS use proper lifting techniques;
- Enlist a coworker to help you lift, load, and unload the A-lift;
- DO NOT use the lifter on stairs.

NOTICE

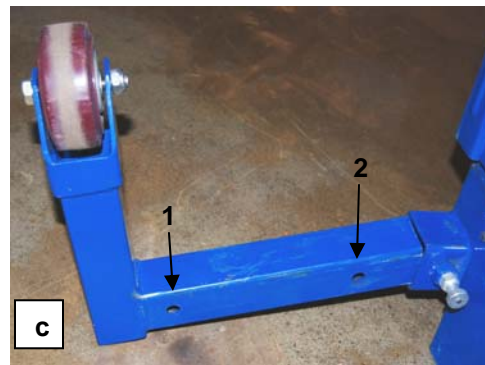
An "Operator" is a person who is trained and authorized to control a manually propelled high lift industrial truck. ONLY persons who have successfully completed the suggested training program outlined in B56.10-2006, at 4.17 on p. 4, and 4.18.1-4 on p. 4-5 should operate the A-Lift. Operators must:

- Develop safe working habits and an awareness of hazardous conditions occurring or present during operation of the lifter;
- Inspect the area where the lifter will be used **before each use** to identify unusual operating conditions. Implement additional safety precautions as conditions require. Such conditions might include:
 1. Irregularities in the floor/surface;
 2. Debris or other obstructions on the floor/surface;
 3. Unsound surfaces or surfaces that cannot support the weight of yourself, the lifter and the load either together or separately;
- Perform the following **function test before each use**:
 1. Test the winch: raise and lower the forks;
 2. Test the brakes: press down on the brake actuator to engage the brakes; then attempt to push the lift forward.
 3. Test the castors: push the lifter to test the castors.

The end-user bears responsibility for verifying that the lifter complies with all regulations, codes, and standards that apply in the location where it is used.

Inspect the lifter as recommended in the "Maintenance and Inspection" section of this manual (p. 12-13). Use the lifter ONLY IF the lifter passes the inspection and is deemed safe to use by designated inspection personnel.

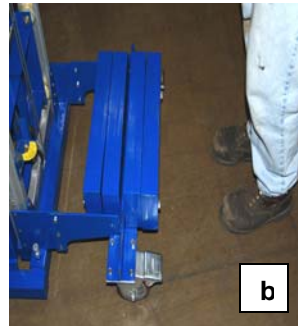
Step 1 (for S and CB Models): Adjust the legs to provide the desired wheel base. Set the brake (S models) or lock the castors (CB models). Remove the forks and lock the carriage using the pivoting carriage latch (photo a). Slowly tilt the lifter backwards until the loading wheels contact the ground. Pull the leg adjustment peg (photo b) and slide the leg in the desired direction. Reset the peg in the first or second adjustment setting (photo c) as the job requires.



Step 2: Always maneuver the A-lift from the "Operator's Position" using the Normal Maneuvering Stance shown below.



a. Grasp the operator handle at each end. This will provide the greatest degree of steering control.



b. Walk behind the lifter and keep your feet clear of the castors.

⚠ WARNING DO NOT place one foot on the counterweights and propel the lifter with the other foot. Doing so will make the lifter more difficult to control.

Step 3: Move the lifter to a position near the intended load and lock both of the locking castors.

Raise the forks to a comfortable height.



Set the load on the forks. The load must rest against the back of the forks.



Lower the forks until the load is a few inches above the adjustable leg (shown by arrow in photo above).



Step 4: Move the load to the desired location.



After you arrive at the unloading destination:

- Lock the castors or set the brakes;
- Unlock the winch handle and turn it clockwise until the load is positioned at a comfortable height;
- Lock the winch handle;
- Remove the load.
- Lower the forks until they are a few inches above the legs.

Step 5: Return the lifter to its storage location. Engage the brakes, fold the winch handle, fully lower the forks, and set the handle latch pin to lock the winch handle

NOTICE To store the lifter, choose a location:

1. where the unused lifter cannot interfere with or obstruct other traffic or operations;
2. that is protected from weather;
3. where the surface is smooth and level;
4. that is free of debris including liquids.

Using the Attachable Deck:



Slide the connecting channel (indicated with an arrow) under the lower carriage cross bar.

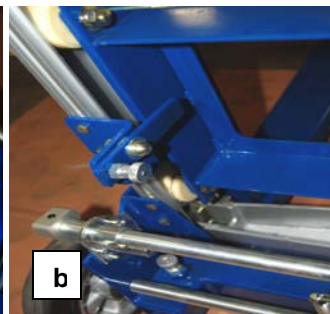
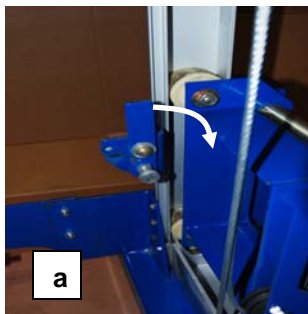


Set the connecting channel on top of the lower carriage cross bar; let the deck rest on top of the forks.

After you finish using the deck, remove it and store it in a dry location.

Transporting the lifter: before loading the A-lift into a transport vehicle, perform the following steps to minimize the chance of damaging the lifter:

1. Remove the forks and store the forks and fork retaining pins.
2. Lower the carriage completely.
3. Rotate the pivoting carriage latch as shown by photos a & b to the right.



Maintenance and Inspections:

According to ANSI B56.10-2006 only trained, authorized persons should be allowed to perform inspections of and maintenance on the lifter. The end-user is responsible for ensuring that the lifter is properly inspected and maintained.

Inspections:

⚠ WARNING DO NOT use the lifter if structural damage exists. Structural damage includes, but is not limited to, cracked welds, warping or other deformation of the mast frame, the forks or deck attachment or the carriage. Restore the lifter to normal operating condition BEFORE using it again.

Inspection and maintenance personnel should engage the brakes and immobilize the carriage with the pivoting carriage latch before conducting inspections or performing maintenance on the A-Lift.

The person(s) authorized **by the end-user (your employer, for instance)** to inspect the A-Lift must do so before it is used for the first time, and before each subsequent use. If the lifter is infrequently used, inspect the unit at least once every 2 weeks. Inspect the A-Lift for:

1. Fraying of or damage to the cable, such as a marked decrease in cable diameter;
2. Structural damage or deformation;
3. Proper functioning of the latch mechanism;
4. Unusual noise, binding or rough movement of the carriage when the winch handle is rotated;
5. Excessive wear of any part(s);
6. Noisy or rough operation of the castors;
7. Dirt or other matter on the surface of the lifter.

Maintenance: the end-user/your employer must implement a maintenance program to ensure the proper function and safety of the lifter. Page 9 of ANSI/ITSDF standard B56.10-2006 describes some recommended maintenance procedures, and the following steps should be utilized in conjunction with those recommendations.

⚠ WARNING The end-user (your employer) is responsible for selecting and training employees to work on the lifter. "Work on" refers to operating, loading, cleaning, servicing, maintaining, or repairing the product. **ONLY** trained, authorized maintenance personnel or contractors should perform inspection, maintenance, or repair work.

Step 1: Tag the A-Lift, "Out of Service."

Step 2: Conduct a "Before each use". If deformity, corrosion, rusting, or excessive wear of structural members is present, DO NOT use the A-Lift. Contact Vestil for instructions. If the carriage does not move smoothly or makes noise as it moves up or down the mast, apply a silicon wax or silicon spray to the inside of the mast frame.

Step 3: Remove any dirt or other matter from the forks and other lifter surfaces.

Step 4: Perform all other necessary adjustments and/or repairs. DO NOT modify the lifter.

⚠ WARNING The reader should understand the significant difference between necessary adjustments and repairs, and modifications.

An adjustment is a simple correction that restores the lifter to normal operating condition, such as tightening loose fasteners, or removing dirt or other debris from the surface of the dumper; a repair refers to replacing worn parts with new replacement parts.

➤ DO NOT use the A-Lift if adjustments and/or repairs are incomplete! Return it to service **ONLY** after finishing all necessary repairs and adjustments.

A modification is a change that alters the lifter from normal operating condition, like bending the structural members or removing a part or several parts. **NEVER modify the unit without the express, written approval of Vestil. Modifications may render the lifter unsafe to use.**

Step 5: Make a dated record of the repairs, adjustments and/or replacements made.

Markings:

Only use the A-Lift if ALL labels are readable and undamaged. Contact Vestil for replacement labels.

FIG. 2: Product label placement



Tip over hazard warning label:

