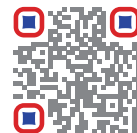


# SERIES 2100 MATERIAL LIFTS

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OPERATOR'S MANUAL

[www.SUMNER.com](http://www.SUMNER.com)



The **Specialized Fabrication Equipment Group** (in short: **S.F.E. Group**) was founded in 2019 after the merger of three world leading OEM's in the field of pipe fabrication tooling and machinery: B&B Pipe and Industrial Tools LLC (USA), Mathey Dearman Inc. (USA) and TAG Pipe Equipment Specialists (UK). In a time span of 5 years, another 4 renowned and market leading companies were acquired and added to the **S.F.E. Group** portfolio: Axxair (France, 2022), Magnatech (USA, 2023), Climax (USA, 2023) and SUMNER (USA, 2025).

The vision and philosophy of the **S.F.E. Group** is to offer globally a comprehensive innovative and cost-effective range of specialized fabrication, welding and machining equipment and derived rental solutions, for a wide range of applications within all critical industries, while optimizing performance, efficiency and safety.

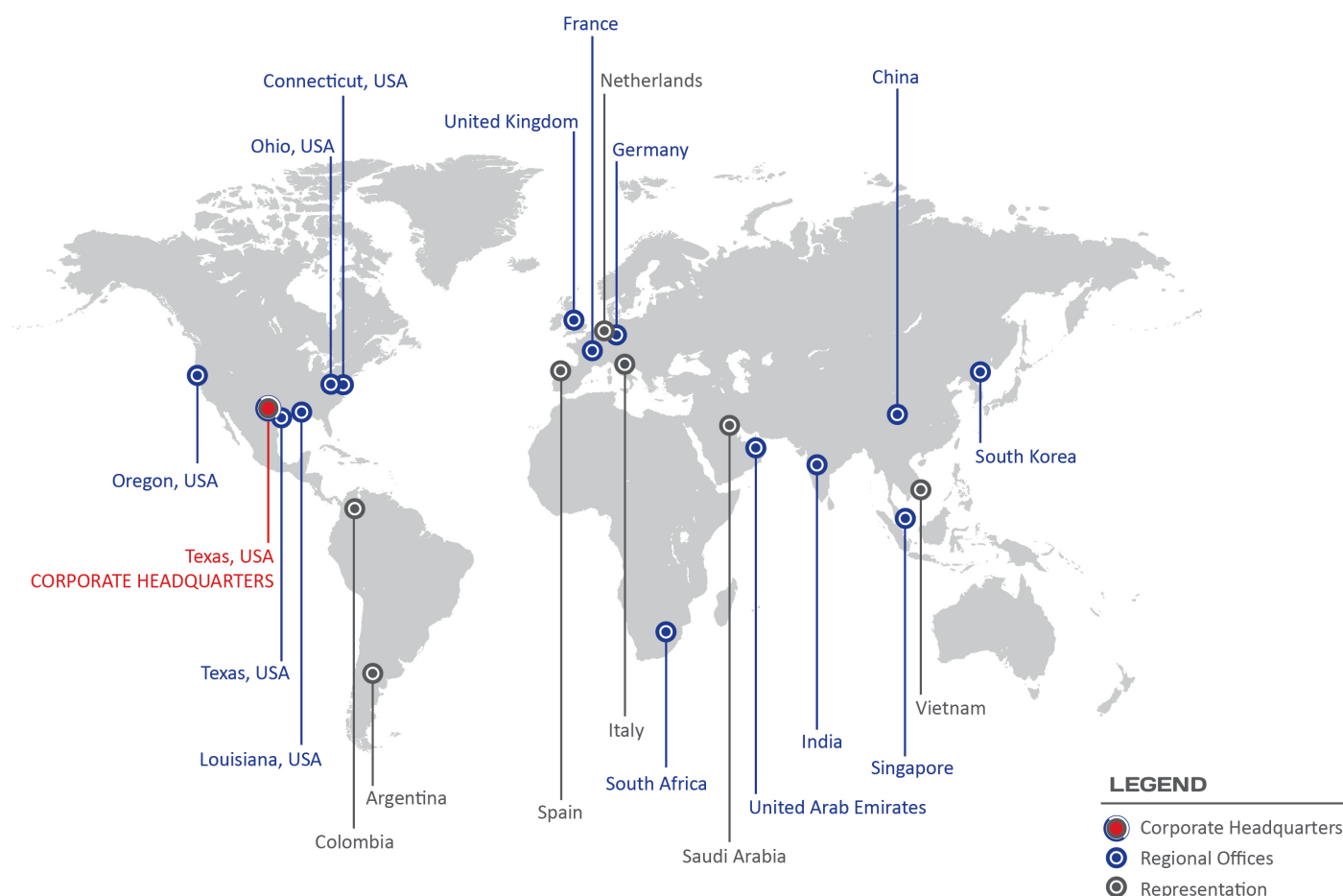
Leveraging over 200 years of combined experience in engineering, manufacturing, and field applications, the **S.F.E. Group** is committed to driving innovation. Through continuous product development and strategic acquisitions, the **S.F.E. Group** is actively growing its portfolio and expanding its global presence to meet the demands of industries around the world. Currently, the **S.F.E. Group** consists of 12 complimentary brands, each supporting the others in delivering cutting-edge solutions.

With offices and warehousing on 5 continents, 400+ employees and more than 500 partnerships and distributors worldwide, **S.F.E. Group** prides itself on consistently offering the highest standards of both product quality and service locally to all its customers.

**S.F.E. Group looks forward to welcoming you into its global network as a partner, distributor or end user customer and remains at your disposal at any time.**

Contact Americas: [sales@sfe-brands.com](mailto:sales@sfe-brands.com)  
Contact International: [sales-int@sfe-brands.com](mailto:sales-int@sfe-brands.com)

## S.F.E. GROUP GLOBAL PRESENCE





**SUMNER Material Lifts** is a world leading brand in the material handling and construction industries, renowned for its innovative, durable, and user-friendly solutions. Founded in 1965 and now a part of the Specialized Fabrication Equipment Group (in short S.F.E. Group), **SUMNER Material Lifts** has built a global reputation for providing high-quality lifting equipment. Designed with safety and efficiency in mind, **SUMNER Material Lifts** products are widely used by professionals in mechanical contracting, plumbing, HVAC, welding, and electrical installation.

**SUMNER Material Lifts'** product line includes a broad range of lifting tools such as material lifts, duct lifts, Roust-A-Bouts, gantries, and heavy-duty hoists, all engineered to meet the demanding requirements of job sites around the world. All equipment is known for ease of use, robust construction, and industry-leading safety features, making it the preferred choice for both large-scale industrial projects and everyday construction needs.

With a long tradition of quality, reliability and value and a strong commitment to innovation and customer satisfaction, **SUMNER Material Lifts** continues to set the standard in lifting and material handling solutions.

In conjunction with all other S.F.E. Group portfolio's brands, **SUMNER Material Lifts** continues to lead the way in lifting and fabrication solutions, delivering tools that elevate the operator's standard of work.

**SUMNER Material Lifts** products are always nearby available within the S.F.E. Group global network and can be consulted on the dedicated website: [www.SUMNER.com](http://www.SUMNER.com)

## INDUSTRIES SERVED



## OUR BRANDS



Our group policy is one of continuous improvements and acquisitions. Products and data tables are subject to change and may vary from those illustrated. Copyright © 2025 Specialized Fabrication Equipment Group, All rights reserved.

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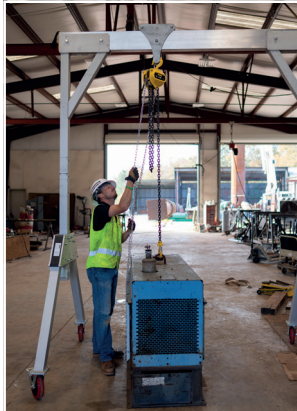
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## OWNER'S RESPONSIBILITIES

Throughout this publication, the words WARNING, CAUTION and IMPORTANT will be used to alert the user to special instructions concerning a particular operation that may be hazardous if performed incorrectly or carelessly.

### OBSERVE THEM CAREFULLY !!



**WARNING** Hazards or unsafe practices which could result in severe personal injury or death.



**CAUTION** Hazards or unsafe practices which could result in minor personal injury, product or property damage.



**IMPORTANT** Indicates information or instructions that are necessary for proper operation and/or maintenance.



## IMPORTANT

Read and understand this instruction manual prior to operating or performing maintenance on this lift!

### 1. Inspect the Equipment

Prior to each use of the unit, check all moving parts and wire rope to ensure that they are in proper operating condition.

If a unit has visible damage or does not transfer up and down smoothly during pre-operation, **DO NOT USE THE UNIT!**

Wire rope (cable) must have a minimum of four complete wraps around the winch drum.



If cable is kinked, worn, frayed, damaged, or has anything on it that would obstruct its rotation around the pulley wheels, **DO NOT USE THE UNIT!**



Use only factory replacement parts. Anything else will severely compromise the quality and safety designed into this lift.

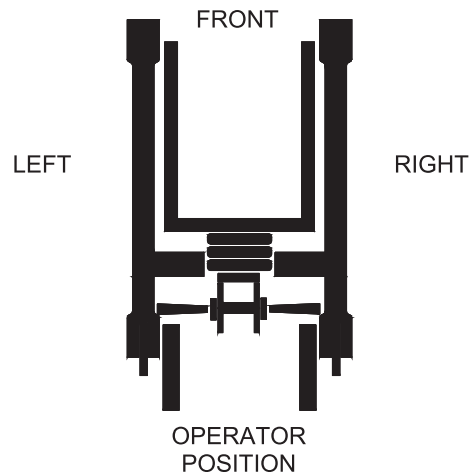
Each unit should have a complete set of decals and a legible Operators Manual. Contact distributor if any of these items are missing.

Wear proper clothing. Hard hat, safety shoes, and gloves should be worn as a precaution while operating this lift.



Avoid horseplay around equipment, and keep bystanders at a safe distance. Do not allow children to operate this unit and always keep them out of work areas.

Operate from the proper position. Keep your balance and proper footing at all times.



#### WARNING



No riders are allowed on this lift. This is not a personnel lift and never should be used for hoisting or moving people.



#### WARNING



KEEP HANDS AWAY FROM ALL MOVING PARTS WHILE OPERATING UNIT.



#### WARNING



NEVER ALLOW ANYONE TO STAND UNDER AN ELEVATED LOAD.



#### WARNING



DO NOT EXCEED RATED CAPACITY

## OPERATOR SAFETY INSTRUCTIONS

(cont'd)

Do not misuse the unit. Perform only the functions for which the unit is designed. Never attempt to operate the equipment at more than the recommended capacity.

Secure load to prevent it from shifting on forks, and tie down loads before lifting.

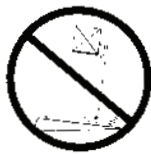
Lock caster brakes when leaving unit unattended.

Keep load at lowest possible position at all times.

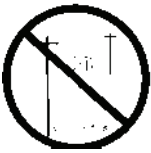
### 2. Work Area Hazards



Never operate during high wind conditions. Lifting bulky loads during high winds can result in the lift tipping over and the possibility of operator injury.



Operate only on level surfaces. Use the unit on smooth and level surfaces to avoid unit tipping over and the possibility of operator injury.



Always watch for and avoid overhead wires and obstructions when using the unit or moving unit to and from the job site.



Keep work area clean. Always keep work area clear of clutter for unobstructed movement of the unit. Never leave elevated load unattended.



Do not use unit to support ladders, for climbing, hoisting or people moving.



Do not use unit outside in thunder, lightning, or severe weather.



When a unit has an elevated load, it can be transported on the unit's 5" casters only. Do not operate from an unstable platform such as the bed of a truck.

## OPERATING PROCEDURE

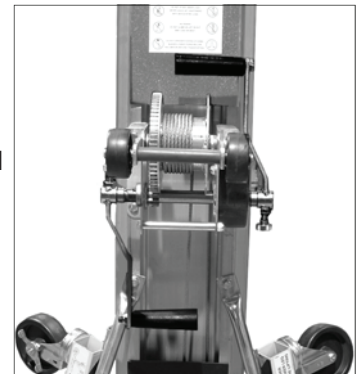
### 1. Unpacking the Lift

Remove the lift from the shipping pallet by cutting the bands and rocking the lift back on the 10" transportation wheels. Carefully roll the lift back off of the pallet onto a smooth, level surface. Place the lift back into its upright stored position.

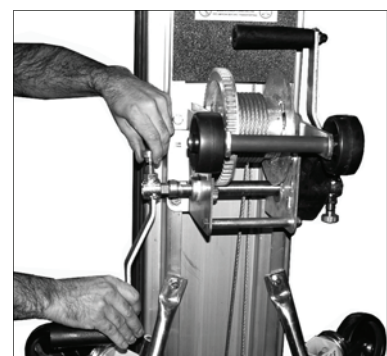
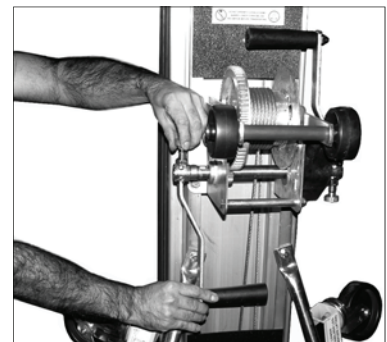
The lift has been shipped with the Mast Hold Down Bar engaged. The purpose of the Mast Hold Down is to keep the mast sections from extending during transportation. To use your lift, pull bar toward you and place back behind mast sections.



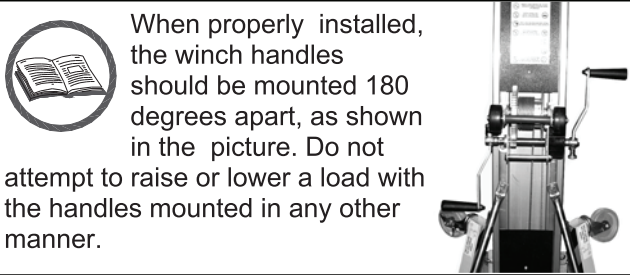
The winch handles have been placed in the stored position.



To place the winch handles in the operating position, pull up on the locking pin and slide the handle off of the winch shaft. Rotate the handle assembly around so that the black plastic grip is facing away from the winch. While pulling up on the locking pin, slide the handle back on to the winch shaft. Repeat this procedure for the other handle.



## OPERATING PROCEDURE (cont'd)



When properly installed, the winch handles should be mounted 180 degrees apart, as shown in the picture. Do not attempt to raise or lower a load with the handles mounted in any other manner.

### 2. Moving Lift to Work Area (No Load)

The lift is normally moved to the job site by rolling on its 10" tires or four caster wheels. **Note: Do not pull by the load lifting cable.**



**IMPORTANT** Before tilting unit to reclined position, the carriage must be lowered all the way down and the Carriage Mast Hold Down Bar must be engaged.



#### CAUTION

**Always use proper lifting techniques.**

To tilt the unit into position for transport from a squatting position, grasp the legs just past the casters and while keeping your back straight, lift upwards to a standing position. The unit is now ready to transport on its 10" wheels.

If it is necessary to go under a low doorway or obstruction, the unit may be reclined onto the 3" wheels located on top of the masts sections and on the winch.



#### CAUTION

**Never allow anyone to stand directly behind the mast while the unit is tilted.**

### 3. Moving Lift in Work Area (With Load)

Although it is best to move the unit to the job site unloaded, light loads may be transported as long as the unit is rolled on the four caster wheels and on a level surface. Always have the load in the lowest possible position before moving the unit.



#### CAUTION

**If a load is being transported, it should be secured to the fork to avoid shifting.**



#### CAUTION

**Moving the unit with elevated loads should be contained to short distances; i.e., 10-15 feet/4-5 meters.**

If it is necessary to move the unit with an elevated load:

- Make sure the area is clear of obstructions
- Keep personnel away from the load and behind the operator's position
- Move the unit slowly, avoiding sudden jerky starts and stops
- Make sure the load is secure and properly balanced. Note load capacity at given centers on page 11.



#### WARNING

**Do not extend load centers beyond fork ends by modifying the lift. Lift may become unstable.**

## OPERATING PROCEDURE (cont'd)

### 4. Reversing the Forks



Disengage 4 spring-loaded pins. Rotate fork assembly 180 degrees. Engage 4 spring-loaded pins.



#### CAUTION

When using the forks in the reversed position ensure that the load is secured and does not extend beyond the fork stop.



Reverse step #4 to return the forks to their normal position.

### 5. Lifting and Lowering Loads



Use the winch to crank forks up or down into the desired position. Then crank winch handles up about 1/4 turn to set the safety brake.

Any unstable load must be *balanced* and *secured* to the forks prior to lifting.

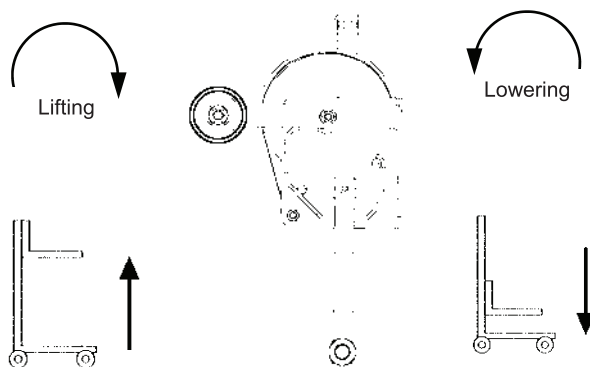
Turn winch crank clockwise to elevate the load, while watching for overhead obstructions.



#### CAUTION

Make sure the floor surface is level.

After load is removed from the forks, lower masts by turning winch crank counter clockwise.



Lock caster brakes when leaving unit unattended.

### 6. Using the Stabilizer Legs



#### WARNING

No riders allowed on this unit. This is not a personnel lift and never should be used for hoisting or moving people.

Use of the stabilizer legs is recommended for all lifts with loads weighing 400 pounds or more extended to heights greater than 12 feet, or for any large, bulky loads.



#### WARNING

Never operate lift during high wind conditions.



## OPERATING PROCEDURE (cont'd)

Position the lift on a level surface. Pinch the stabilizer locking mechanism and pull the stabilizer legs down until the caster on each leg is snugly on the floor.



To replace the leg in the stowed position, pinch the locking mechanism release and fold the leg up.



### 7. Folding the Base Legs

Lower the carriage all the way down and engage the Mast Hold Down Bar.



#### CAUTION

**Do not drop the unit. Lower the unit by bending your legs, not your back!**

Tilt the unit over onto the winch wheels. Pull out on ring, to disengage the spring loaded plunger pin. While holding onto the leg, slide the Leg Lock, down towards the outrigger mount.



Fold the leg until it forms a 90 degree angle with the base



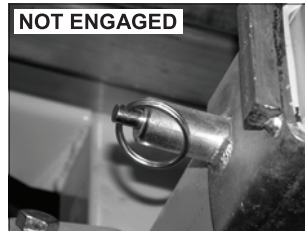
While holding the leg in the 90 degree position, slide the Leg Lock back towards the leg until the spring load-ed plunger pin engages into position.



#### CAUTION

**Never move a lift in the upright storage position, or in the operating position unless the spring loaded plunger pins are fully engaged on both Leg Locks.**

#### NOT ENGAGED



#### FULLY ENGAGED



### 8. Storing the Forks

Using two hands, pull the lower 2 spring-loaded rings located above the fork arms and simultaneously rotate the fork outward.

Again, using two hands, pull the upper 2 spring-loaded rings located at the top of the fork assembly and remove the forks from the carriage.

While pulling out on the upper 2 spring-loaded rings, reposition the upper 2 spring loaded pins so that they align with the top two holes in the carriage and release the rings.

Once the pins are locked in the holes, the carriage can be rotated up into the travel/storage position.



Lift may be stored in the upright, compact position.



#### CAUTION

Once the forks are rotated up they must be secured to prevent them from falling back.



#### CAUTION

Carriage must be secured with Mast Hold Down. See Mast Hold Down Bar section on this page.

### 9. Loading into Vans/Trucks

Tilt the unit until the 3" winch wheels lay onto the truck bed or gate as shown below. Fold the front legs as described above. Lift the base end and roll the lift onto the bed with both the 3" winch wheels and 10" transport wheels in contact with the truck bed. Tie the unit down to prevent movement during transport.



Unit may be loaded with a crane. Unit must be in upright and compact position with legs, forks, and stabilizers securely in their stored positions. If unit has any loose or unsecured items, remove them. Attach lifting hook to top roller bar located on top of bottom mast. Before elevating unit, lifting hook should always point away from the lift.



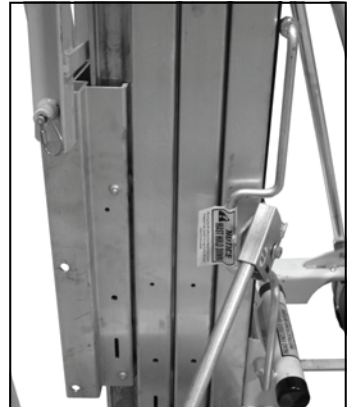
### 10. Mast Hold Down Bar

#### Securing the Carriage:

Lower the carriage all the way down. With the forks in place, engage the Mast Hold Down Bar above the fork carriage.

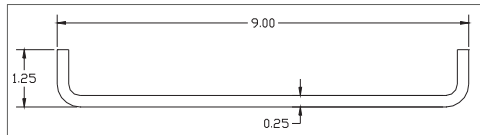


To release Hold Down, pull bar toward you and place back behind mast sections.



## Mast Brakes:

The Mast Brake will automatically engage when the unit is horizontal, preventing disassembly of the mast sections. When this occurs, the masts will extend, but not retract. A special tool, which can be found in the Operator's Manual tube, is required to release the brakes. If the tool is lost or damaged, one can be made simply from a piece of 1/8 to 1/4 inch diameter steel rod 9 inches long with both ends bent into an "L" shape 1-1/4 inches long.



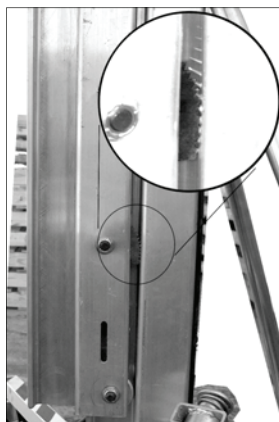
To release the brake, lay the lift back onto the winch wheels and place the tool into brake access slot located on the left side of the lift, and through the hole in the counterweight.



Pull the tool down and the brake will release.

It may be necessary to push the locked mast (or Carriage) up slightly while pulling down on the tool. Once the brake is released, maintain pressure on the tool and slide the mast sections apart.

Repeat this procedure for each mast section.



When the brake is engaged, it will be possible to see the Brake Cam acting on the adjacent mast section. Once the brake is released, it will rotate around into its normal position and will not be visible.

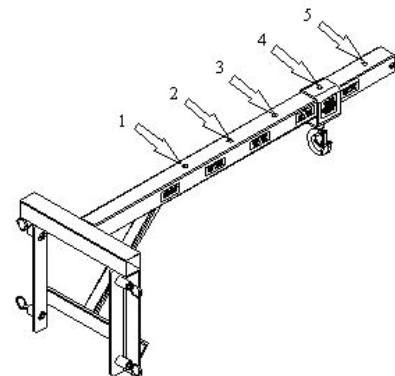
## OPTIONS

### Fork Extensions:

To use fork extension, press plunger on each fork arm and slide extensions out of tube until plungers lock into position. Reverse this step to reinsert the extensions.



### Boom:



**Boom Capacity Chart**

| Station | 1   | 2   | 3   | 4   | 5   |
|---------|-----|-----|-----|-----|-----|
| Lbs.    | 650 | 525 | 425 | 300 | 200 |
| Kg.     | 300 | 240 | 195 | 140 | 90  |

To use Boom, pull spring-loaded ring and slide hook housing to desired station. Release spring-loaded ring, making sure that the plunger engages into the locating hole.



## WARNING

Do not use Boom if plunger is not engaged in the locating hole.



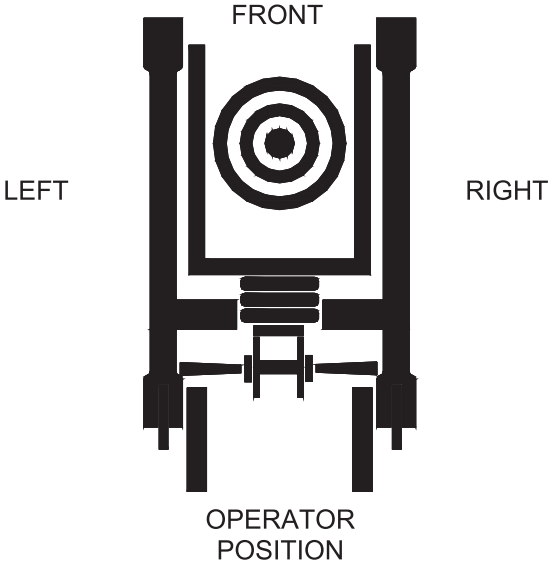
## WARNING

Never exceed the rated capacity at any station. Doing so may cause the lift to become unstable.

## SPECIFICATIONS

| Dimensions                         | 2112        |          | 2118       |          | 2124       |          |
|------------------------------------|-------------|----------|------------|----------|------------|----------|
| Height - stowed                    | 84"         | 213.4 cm | 84"        | 213.4 cm | 84"        | 213.4 cm |
| Length - stowed                    | 34"         | 86.4 cm  | 34"        | 86.4 cm  | 34"        | 86.4 cm  |
| Height - operating                 | 84"         | 213.4 cm | 84"        | 213.4 cm | 84"        | 213.4 cm |
| Length - operating                 | 62"         | 157.5 cm | 73"        | 185.4 cm | 73"        | 185.4 cm |
| Base width                         | 31.25"      | 79.4 cm  | 31.25"     | 79.4 cm  | 31.25"     | 79.4 cm  |
| Width with stabilizer legs         | 74"         | 188.0 cm | 74"        | 188.0 cm | 74"        | 188.0 cm |
| Ground clearance                   | 2.5"        | 6.4 cm   | 2.5"       | 6.4 cm   | 2.5"       | 6.4 cm   |
| Load height (minimum)              | 6"          | 15.2 cm  | 6"         | 15.2 cm  | 6"         | 15.2 cm  |
| Maximum height (forks down)        | 10' 11-5/8" | 3.3 m    | 16' 4-5/8" | 5.0 m    | 21' 9-5/8" | 6.6 m    |
| Maximum height (forks reversed)    | 12' 11-3/8" | 3.9 m    | 18' 4-3/8" | 5.6 m    | 23' 9-3/8" | 7.2 m    |
| <b>Weight</b>                      |             |          |            |          |            |          |
| Net weight                         | 255 lbs.    | 115.9 kg | 327 lbs.   | 148.6 kg | 372 lbs.   | 169.1 kg |
| <b>Load Capacity</b>               |             |          |            |          |            |          |
| Load capacity, 14" load center     | 650 lbs.    | 300 kg   | 650 lbs.   | 300 kg   | 650 lbs.   | 300 kg   |
| Load capacity with fork extensions | 200 lbs.    | 90 kg    | 200 lbs.   | 90 kg    | 200 lbs.   | 90 kg    |
| <b>Fork Specifications</b>         |             |          |            |          |            |          |
| Standard fork width                | 21.5"       | 54.6 cm  | 21.5"      | 54.6 cm  | 21.5"      | 54.6 cm  |
| Standard fork length               | 28"         | 71.1 cm  | 28"        | 71.1 cm  | 28"        | 71.1 cm  |
| Fork length with extensions        | 42"         | 106.7 cm | 42"        | 106.7 cm | 42"        | 106.7 cm |
| Fork weight                        | 32 lbs.     | 14.5 kg  | 32 lbs.    | 14.5 kg  | 32 lbs.    | 14.5 kg  |
| Fork weight with extensions        | 38 lbs.     | 17.3 kg  | 38 lbs.    | 17.3 kg  | 38 lbs.    | 17.3 kg  |

| LOAD CAPACITY CHART |                 |                 |                |
|---------------------|-----------------|-----------------|----------------|
| MODEL               | LOAD CENTER     |                 |                |
|                     | 14              | 24              | 42             |
| 2118                | 650lbs<br>300kg | 475lbs<br>215kg | 180lbs<br>82kg |
| 2124                | 650lbs<br>300kg | 475lbs<br>215kg | 180lbs<br>82kg |
| 2112                | 650lbs<br>300kg | 475lbs<br>215kg | 180lbs<br>82kg |



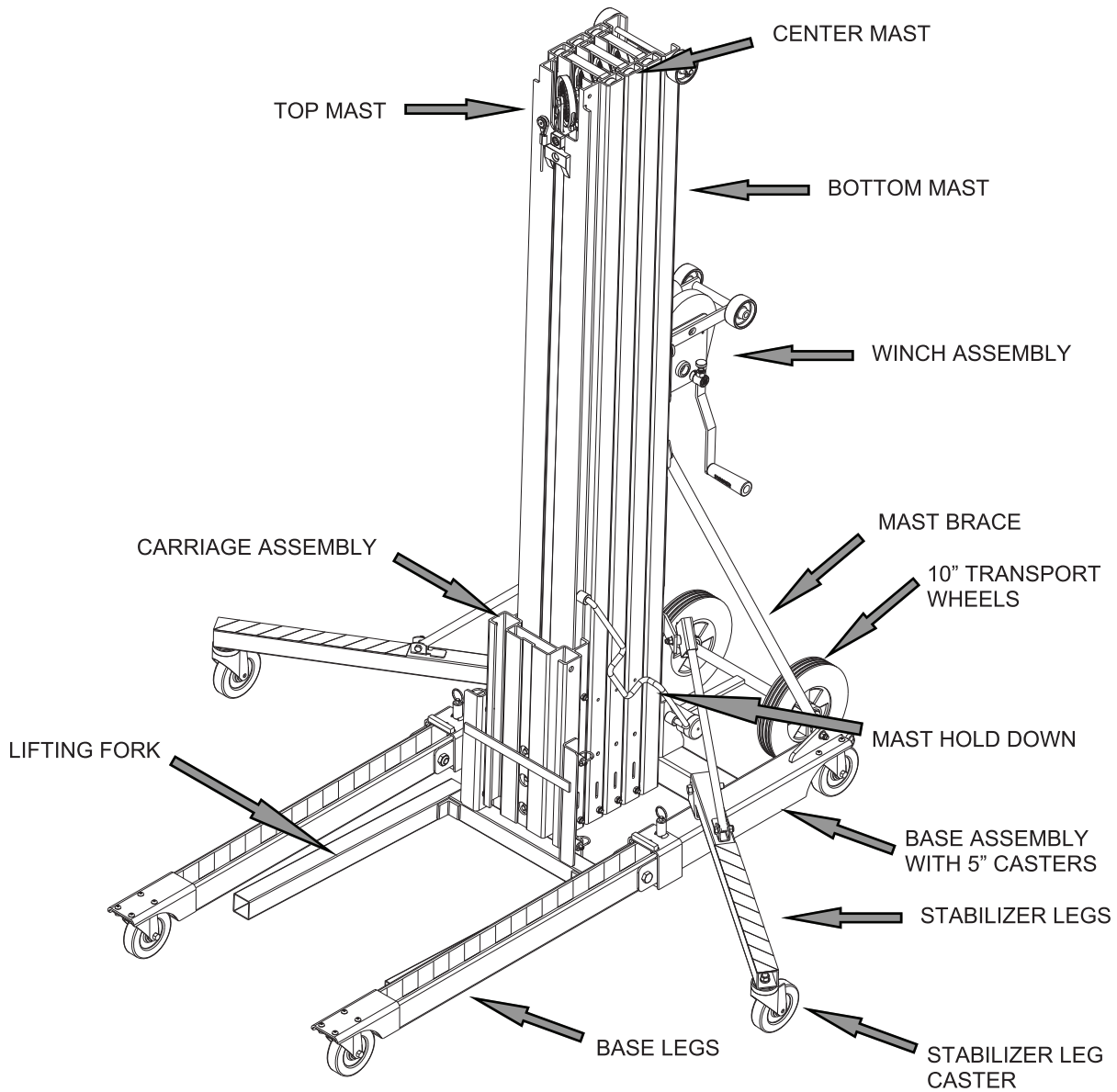
### WARNING

The center of gravity of the load should always be centered between the fork arms and as far back towards the lift as possible.



### WARNING

The center of gravity of the load should never extend past 22" on standard forks and 36" on extended forks.



## Before each use:

1. Inspect the cable for kinks and frays. If kinked or more than 3 wire strands are broken (small wires) do not use the lift until the cable has been replaced.
2. Make certain winch operates freely and cable is not tangled on the winch drum.
3. Check forks, legs, and base for bends.
4. Make sure caster wheels move freely.
5. Check stabilizer legs by lowering them into normal operating position to check locking mechanism and raising them to check for smooth transfer.

## Recommended Inspection Every 6 Months:

1. Inspect cable for frays and kinks (see point 1 above)
2. Make certain winch works freely and that there are no loose or damaged parts.
3. Brake Inspections: Manually raise and support each movable mast section and carriage a minimum of 6" above their lowest position. Use a wooden block with a rope attached to the bottom end to quickly pull on rope to remove wooden block support from mast sections being tested. Brakes should engage before mast section reaches bottom stop. Use winch to crank up mast sections to release the safety brakes.

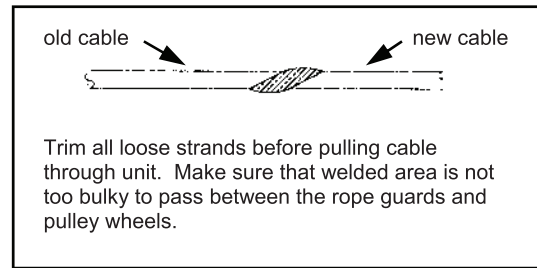
## Winch Maintenance:

1. Refer to the winch assembly drawings in this Operators Manual.
2. Be sure that both winch covers are on the winch.
3. Check ratchet dog and brake ratchet for wear. If any wear is visible, replace the part. If not, lubricate the holes in both parts with a light oil.
4. Inspect gear teeth for wear. If there is no sign of visible wear, brush teeth with 50-wt. Motor oil.
5. For proper brake adjustment see "Troubleshooting" section on page 14.

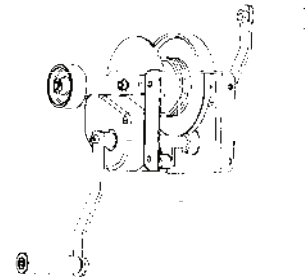
## Replacing the Cable:

1. Lower the carriage to engage the safety latch.
2. Remove the large gear cover from the winch.
3. Unbolt the cable from the top of the top mast.
4. Cut the looped end off the old cable assembly, using cable cutters or a cutting torch.
5. Fusion weld the plain end of the new cable to the cut end of the cable. **Note: The fused joint must be straight and smooth or it will not pass through the pulley assemblies inside the unit.**
6. Use the winch to pull the old cable from the winch side while feeding the new cable through the carriage until the old cable is completely out of the unit. Cut the cables

apart approximately 2" from the weld on the new cable and fuse the end of the new cable to prevent unraveling.



7. Bolt the new cable (looped end) to the top of the top mast.
8. Unwind the cable from the load drum, loosen the set screw and remove the cable.
9. Thread the plain end of the cable through the drum into the rope keeper and tighten the set screw.  
**Note: The cable must be fed from the bottom of the winch between the winch and the mast sections, over the drum and into the slot on the wide plate.**



10. Wind the slack cable tightly and evenly across the load drum.
11. Replace the winch covers.

## General Maintenance:

1. Check both winch handles for wear or bends.
2. Inspect 3" roller wheels mounted on the winch and top mast for damage and smooth rotation.
3. Examine all bolts and nuts to be sure they are tight.
4. Legs, forks, braces and base should be dent free and damage free.
5. Check pulley covers for damage (indentations) which can restrict the rotation of the pulleys.
6. Make sure load line is seated in all pulleys and that pulley rotates without obstruction.
7. Check stabilizer legs by lowering them into normal operating position to check locking mechanism and raising them to check for smooth transfer.
8. Check all roller wheels for free rotation.
9. Inspect masts and carriage hold-down device

10. Raise mast sections to inspect for free, smooth sliding action. Make sure wire slideways are free of dust and oxidation and spray a light coat of silicone lubrication in slideways.
11. Make sure caster wheels and 10" transport wheels rotate freely and are undamaged.
12. Inspect leg latch mechanism and apply light grease to spring loaded plunger.
13. Check to be sure that all three mast covers are attached to the lift.
14. Check the safety brake operation.

[See Safety Brake maintenance on page 10]



#### WARNING

**Replace all worn or damaged parts only with Sumner parts.**



#### WARNING

**Modifying the lift in any way can cause injury or death!**



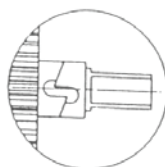
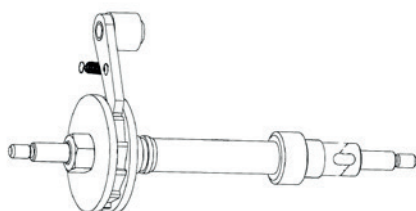
## TROUBLESHOOTING

| PROBLEM                                                                                                                                                                                                                                                                                                                                                                                                              | CAUSE                                                                                          | SOLUTION                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Masts not rising in succession</b>                                                                                                                                                                                                                                                                                                                                                                                | Overloading<br>Check to make sure that the load does not exceed the 650 lb/300 kilo load limit | Remove excess weight                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                      | Load may not be centered properly on the forks                                                 | Check load capacity chart and reposition load                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                      | Mast roller not rotating. Inspect tracks for debris, grease, or any foreign obstruction        | Clean mast sections with a degreaser or brake cleaner and lubricate with a silicon lubricant                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                      | Cable pulley wheel not rotating                                                                | If there is any damage to the pulley wheel, or if the wheel doesn't rotate smoothly, change wheel. If the rope guard shows any damage, replace it             |
|                                                                                                                                                                                                                                                                                                                                                                                                                      | Inspect cable for damage                                                                       | If cable is kinked, worn or frayed, replace cable                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                      | Mast roller tracks are clean and mast roller wheels are not rotating                           | If wheels and mounting hardware are not damaged, clean wheels and lubricate shoulder bolt. If the wheels do not rotate freely, replace roller wheel assembly. |
|                                                                                                                                                                                                                                                                                                                                                                                                                      | Inspect mast sections for damage                                                               | Replace damaged mast section                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                      | Mast sections will not release or transfer down                                                | Check the safety brake. The brake will not release unless the unit is vertical.                                                                               |
| <b>If none of these solutions seem to fix the problem...</b>                                                                                                                                                                                                                                                                                                                                                         |                                                                                                | Call distributor's Customer Service Department                                                                                                                |
| <b>NOTE: Mast sections may rise out of succession when load is near maximum capacity. If this occurs, the masts will correct themselves during continued use or when the load is removed from the forks. Movement of the mast sections will not affect the position of the forks. The carriage must elevate to the top of the top mast section before any mast sections begin to rise, and it should lower last.</b> |                                                                                                |                                                                                                                                                               |

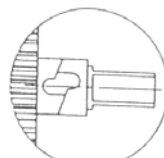
| PROBLEM                                                             | CAUSE                                                                                                                          | SOLUTION                                                                                             |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Load is easing down slowly                                          | The brake on the winch or ratchet dog are not installed correctly                                                              | When load is in position, crank winch handles forward a half turn towards the lift to set the brake. |
| You have serviced the winch and now the brake does not work at all. | The brake ratchet or ratchet dog are not installed correctly                                                                   | Check the winch drawing in this manual and correct the installation problem.                         |
| The winch is hard to crank down.                                    | The brake is over-engaged                                                                                                      | See Illustration and instructions below.                                                             |
|                                                                     | The brake will not disengage                                                                                                   | See Illustration and instructions below.                                                             |
|                                                                     | The idler gear is displaced                                                                                                    | Make sure that the idler rotates freely and the teeth on the idler gear are now worn.                |
| Mast Brake will not release                                         | Unit may not be in the vertical position.                                                                                      | Place unit in vertical position and wind mast sections up to full extension.                         |
| Unit is vertical and brakes will not release                        | Mast section or carriage is too close to mast stop and does not have enough clearance between mast stops for brakes to release | Use release hook to manually disengage safety brakes.                                                |
| Units is being serviced or unit is not in vertical position         | Brakes will engage if unit is horizontal or tilted off center                                                                  | Use release hook to disengage brakes.                                                                |
| If none of these solutions seem to fix the problem...               |                                                                                                                                | Call Distributor's Customer Service Department                                                       |

**NOTE:** For proper adjustments on the 2100 Lift winch, the pinion and drive shaft must be in the positions shown when the lock nut is tightened against the O.D. brake disc to 15 ft. lbs.

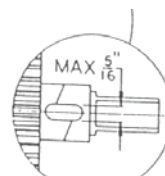
\*Correct alignment is only visible when load is applied to lift.



WRONG



WRONG



\* RIGHT

**Lift Model Number**\_\_\_\_\_

**Lift Serial Number**\_\_\_\_\_

**Service Performed:**

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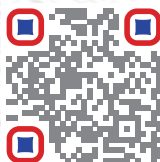


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