

**UL-20/26**

SERIAL NUMBERS 14000 TO CURRENT

## WARNING

**All personnel shall carefully read, understand and follow all safety rules and operating instructions before performing maintenance on or operating any UpRight work platform.**

## SAFETY RULES

**NEVER** elevate platform unless all four (4) outriggers have been properly positioned. All outrigger screwjack pads must be in solid contact with a firm surface before the platform is elevated.



**NEVER** attempt to move the UpRight Lift with people or materials on the platform or with the platform elevated.



**NEVER** operate the machine within ten feet of power lines. **THIS MACHINE IS NOT INSULATED.**



**NEVER** sit, climb, or stand on the platform guardrails or midrail.



**NEVER** elevate platform without first leveling the base.

**NEVER** use ladders, planks or other devices to increase the height of the platform.

**NEVER** attach overhanging loads to the platform or increase the platform size.

**NEVER** elevate the platform if it contains more than one person or more than the rated load of 300 pounds.

**LOOK** up, down and around for overhead obstructions and electrical conductors.

**NEVER** change operating or safety systems.

**CLOSE** bar across opening after entering platform.

**INSPECT** the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, damaged control or power cables and loose wire connections.

**NEVER** use the UpRight Lift as a freight or personnel elevator.

**NEVER** recharge batteries near sparks or open flame; batteries that are being charged emit highly explosive hydrogen gas.

**AFTER USE** secure the work platform against unauthorized use by turning key switch off and removing key.

**NEVER** replace any component or part with anything other than original UpRight replacement parts without the manufacturers consent.

## Outrigger Installation

1. Pull each front outrigger out until locking pin engages (Figure 1).
2. Rotate each rear outrigger towards rear of machine until it stops then push in on outrigger until locking pin engages (Figure 1). Pull on outrigger to verify that locking pin is engaged.
3. Level the base, centering the bubble in the orbit level on the base by adjusting the screwjacks at the end of each outrigger (Figure 2). **DO NOT** release the tension on an outrigger, by turning counterclockwise, to level base.
4. **All four (4) screwjack pads must be in solid contact with a firm surface before the platform is elevated.**

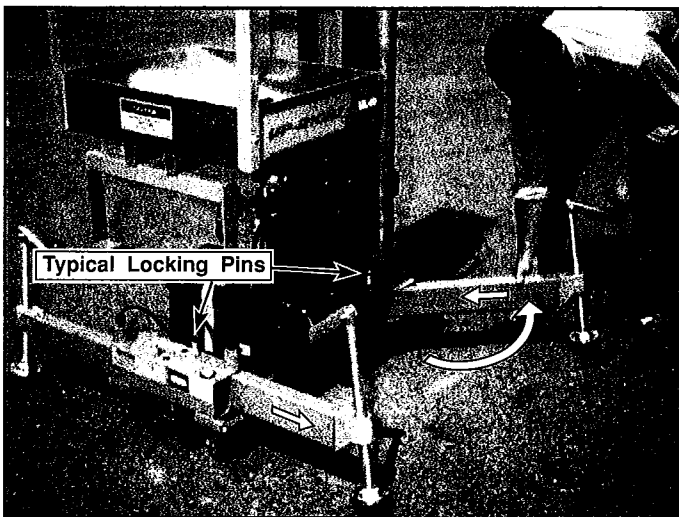


Figure 1: Positioning outriggers

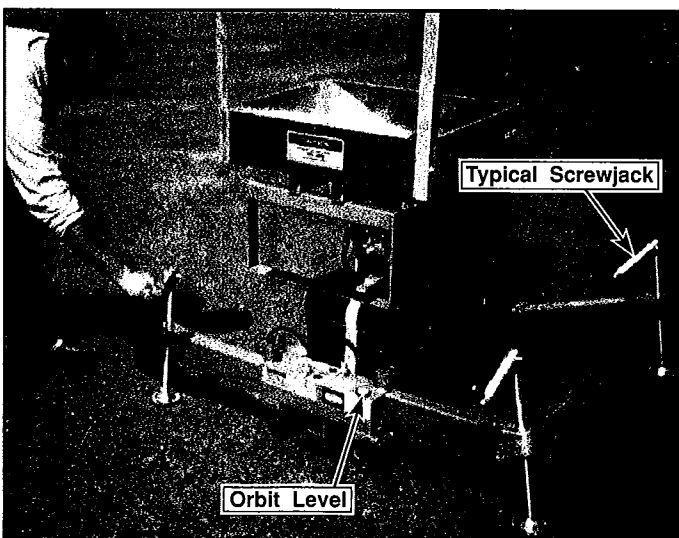


Figure 2: Leveling base

## Operation

Before operating UpRight Lift ensure that pre-operation and safety inspection has been completed and any deficiencies have been corrected.

1. Read, fully understand and follow this Operator Manual.
2. Be sure the unit has been properly set up with all four (4) outriggers properly positioned and the base leveled.

**NOTE: Platform will not elevate unless all four outriggers are properly positioned and screwjack pads are firmly in contact with floor.**

3. Check for external damage to the mast.
4. Plug unit into the proper power source. (NOTE: Applies to A.C. units only.)
5. Turn ON Lower Emergency Stop Switch located on the left side of the mast (Figure 3). Open switch guard and push switch toward guard. In the event of an emergency, push the switch guard to stop the unit.
6. Mount the platform using the access ladder.
7. Close bar across entrance after mounting platform.
8. Check for overhead obstructions.
9. Turn ON Platform Emergency Stop Switch, located on the right side of the pinch shield (Figure 4). Open switch guard and push switch toward guard. In the event of an emergency, push the switch guard to stop the unit.

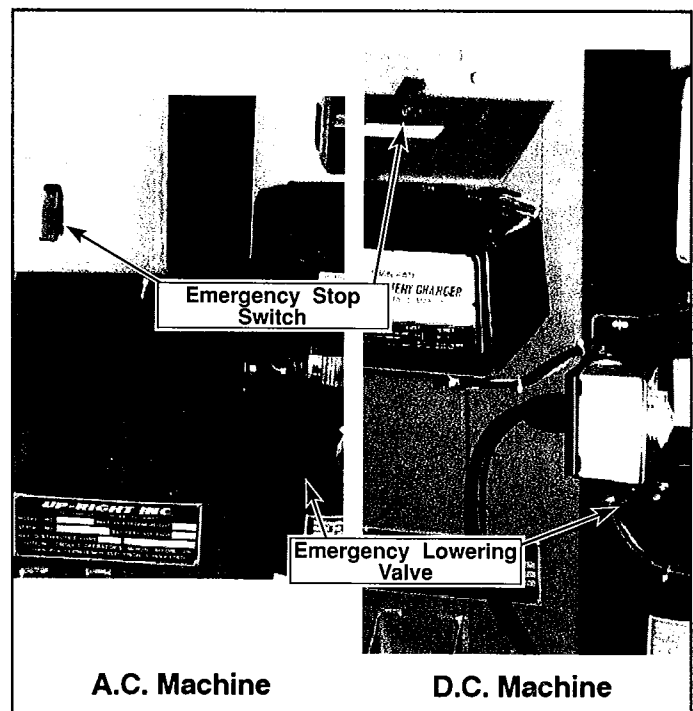


Figure 3: Base Controls



10. Turn **ON** Key Switch located on the right side of the pinch shield (Figure 4).
11. Push both the middle and top buttons on the Control Box (Figure 4) at the same time to elevate the platform. Release the buttons to stop.
12. Check that the area below the platform is clear before lowering the platform.
13. Push both the middle and bottom buttons at the same time to lower the platform. Release the buttons to stop.
14. After use, secure unit from unauthorized use by turning Key Switch **OFF** and removing key.

## EMERGENCY LOWERING



### WARNING



If the platform should fail to lower, **NEVER** climb down the mast.

Ask a person on the ground to open the Emergency Lowering Valve to lower the platform. This valve is located on the Power Unit on the left side of the mast (Figure 3).

1. Open the Emergency Lowering Valve by turning the knob counterclockwise.
2. To close turn the Emergency Lowering Valve clockwise.

Once the platform is fully lowered, be certain that the Emergency Lowering Valve is closed again. The platform will not elevate if the Emergency Lowering Valve has not been closed.

## AFTER USE EACH DAY

1. Ensure that the platform is fully lowered.
2. Park the machine on level ground, preferably under cover.
3. Secure against vandals, children or unauthorized operation by turning the Key Switch to **OFF** and removing the key.

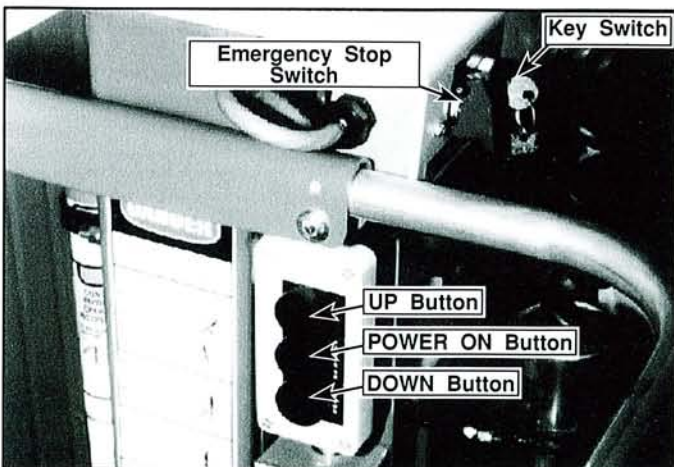


Figure 4: Platform Controls

## Safety Interlock Test



### DANGER



**NEVER** perform this test from the platform.

1. Properly position all four (4) outriggers and level base.
2. Release the tension on one (1) outrigger by turning the screwjack counterclockwise, until the screwjack pad is off the ground.
3. While standing on the ground activate the control panel to elevate the platform. Machine should not elevate.
4. Re-level the base with all four (4) outriggers then repeat step 2 with another outrigger.
5. Repeat steps 2 , 3 & 4 until all four (4) outriggers have been tested.

**DO NOT** use a machine that elevates when the tension has been released on an outrigger. **Machine must be repaired before using.**



## Loaders

### LARGE LOADERS AND UNITS WITH TILT BACK ASSEMBLY

**If Your Loader Looks Like This, Follow These Directions (If Not Refer To Page 5):**

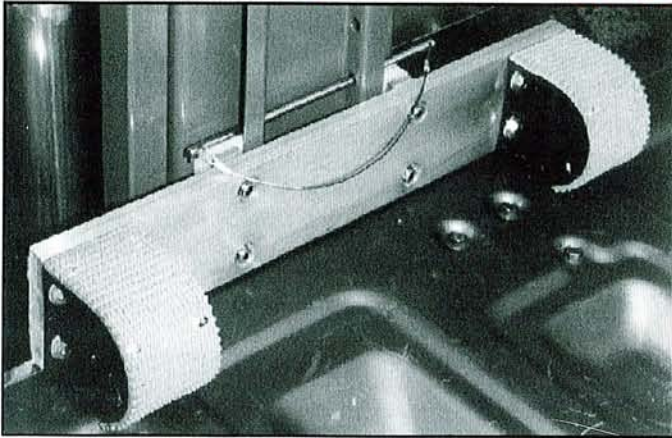


Figure 5: Large Loader



#### WARNING



Make sure Loader fully engages tailgate or vehicle bed to prevent machine from falling.

### LOADING

1. Slide the loader, located on the back of the unit, up past the top set of holes and engage the loader pin through the top set of holes below the loader.
2. Back the unit up until the back of the unit comes in contact with the vehicle bed or tailgate.
3. Remove the loader pin and slide the loader down until it comes into contact with the vehicle bed or tailgate (Figure 6). Then replace the loader pin in the first available set of holes above the loader and secure with the hair pin retainer.

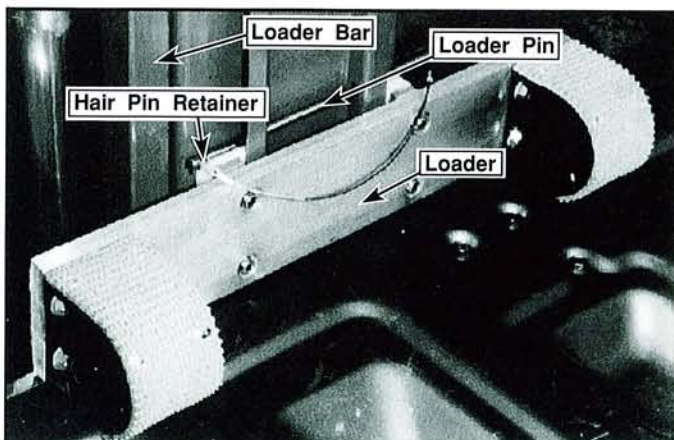


Figure 6: Loader in load position

4. Insert Loader Bar, located on the right side of the mast, into its proper location at the front of the machine. Secure with the pin attached by a cable to one of the locking pins.
5. Pull upward on the end of the Loader Bar, using the loader as a pivot, until the unit rotates to a horizontal position in the vehicle bed (Figure 7).
6. Push the base of the unit towards the front of the vehicle bed (Figure 8). The machine will slide on the loader until the rear wheels contact the vehicle bed or tailgate. The unit may then be rolled on the rear wheels and casters located near the top of the unit.
7. Remove the Loader Bar from the front and put it in the storage location.
8. Secure the unit with suitable strength rope or tie straps.



#### CAUTION



To prevent damage to the mast assembly, do not place rope or tie downs across the mast assembly when securing the unit for transportation.



Figure 7: Tilting machine onto vehicle



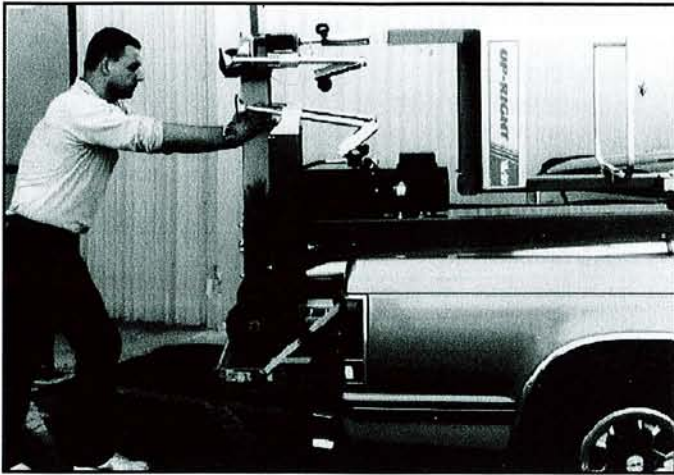


Figure 8: Pushing machine into transport position

## UNLOADING

1. Unsecure the unit.
2. Insert loader bar, located on the right side of the mast, into its proper location at the front of the machine. Secure with the pin attached by a cable to one of the locking pins.
3. Roll the unit back until the rear wheels are off the edge of the tailgate or vehicle bed.
4. Pull downward on the loader bar, allowing the unit to slide on the loader. As the unit stops sliding on the loader it will then pivot on the loader to an upright position. Gradually counterbalance the unit's weight by applying an upward force on the loader bar. This allows the unit to settle gently on the wheels, avoiding undue impact on the machine.
5. Remove the loader bar and put it in the storage location.

## COMPACT LOADERS ONLY

*If Your Loader Looks Like This, Follow These Directions:*

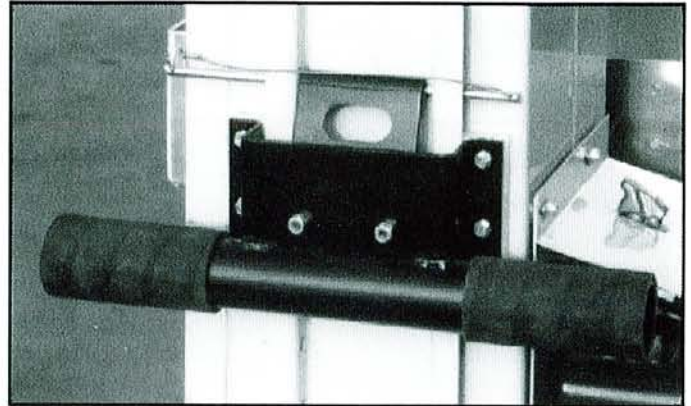


Figure 9: Compact Loader



### WARNING



Make sure Loader fully engages tailgate or vehicle bed to prevent machine from falling.

## DC MODELS (Figure 10)

1. Disconnect the battery plug.
2. Rotate the battery cradle forward by pulling forward on the foot step. Prevent the machine from moving by placing your foot on the front outrigger socket.
3. Remove the battery from the cradle using the handles on each side of the battery case.



### CAUTION



The battery is heavy, 52 lbs. (115 kg), lift properly (or have someone help you) to prevent back injury.

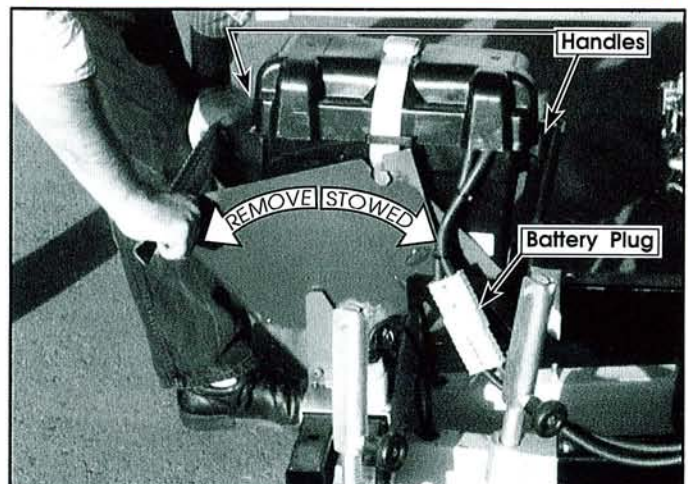


Figure 10: Battery Installation



## LOADING

1. Engage the loader pin through the top set of holes in the loader channel.
2. Secure the loader to the loader pin with the gravity latch.
3. Back the unit up until the back of the machine comes in contact with the vehicle bed or tailgate.
3. Release the gravity latch and slide the loader down until it comes into contact with the vehicle bed or tailgate (Figure 11). Then place the loader pin in the first available set of holes above the loader and secure with the hair pin retainer.
4. Insert Loader Bar, located on the right side of the mast, into its proper location at the front of the machine. Secure with the pin attached to the Loader Bar (Figure 12).
5. Lift upward on the Loader Bar using the loader as a pivot until the unit rotates to a horizontal position in the vehicle bed (Figure 13).
6. Push the base of the unit towards the front of the vehicle bed (Figure 14). The machine will slide on the loader until the wheel ramp contacts the vehicle bed or tailgate and raises the wheels onto the bed. The unit may then be rolled on the rear wheels and casters located near the top of the unit.
7. Remove the Loader Bar from the front socket and put it in the storage location.
8. Secure the unit with suitable strength rope or tie straps using the tie down holes located on the base of the unit and at the top of the cage support member.



### CAUTION



To prevent damage to the mast assembly, do not place rope or tie downs across the mast assembly when securing the unit for transportation.

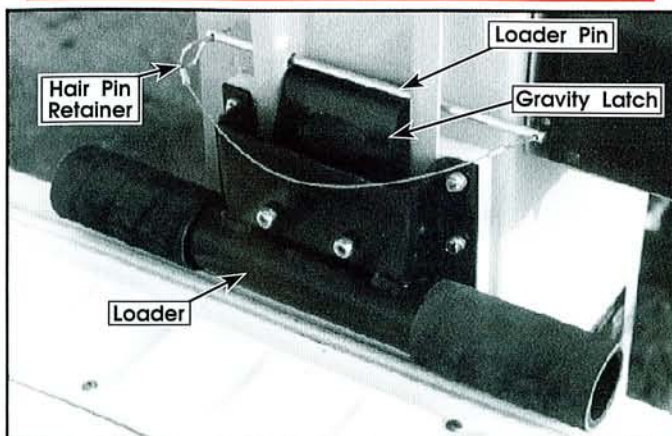


Figure 11: Compact Loader in load position

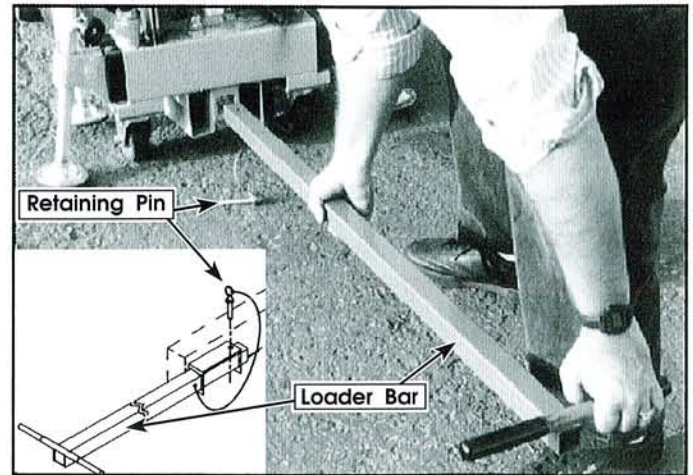


Figure 12: Loader Bar Installation



Figure 13: Tilting machine onto vehicle

## UNLOADING

1. Unsecure the unit.
2. Insert the Loader Bar into the front socket until the locking pin engages the hole in the front end of the Loader Bar.
3. Roll the unit back until the rear wheels are off the edge of the tailgate or vehicle bed.
4. Pull downward on the Loader Bar, allowing the unit to slide on the loader. As the unit stops sliding on the loader, it will pivot on the loader to an upright position. Gradually counterbalance the unit's weight by applying an upward force on the Loader Bar. This allows the unit to settle gently on the wheels, avoiding undue impact on the unit.
5. Remove the Loader Bar and put it in the storage location.

## DC Models

1. Replace the battery into the cradle being careful when lifting.
2. Rotate the cradle and battery back to the normal position using the foot step.
3. Reconnect the battery plug making certain it is fully engaged.





Figure 14: Pushing machine into vehicle bed

## Passage Through A Doorway

The UL-20/26 can, as an option, be equipped with a castered rear Tilt Back assembly. When the unit is tilted back onto this support frame, the overall height can be reduced to 72 in. (1.83 m).

### LOWERING

#### ⚠ CAUTION ⚠

Before tilting the UpRight Lift onto the rear Tilt Back assembly be sure the retaining pin is fully inserted with the hair pin retainer installed and the cylinder assembly is fully extended.

DO NOT drop Tilt Back frame.

Keep out from under Tilt Back frame and machine when tilting.

1. Be sure area is clear of personnel and obstructions.
2. While holding Tilt Back frame, remove the retaining pin and lower the caster frame until the hole in the cylinder assembly aligns with the upper mounting bracket pin hole (Figure 15).
3. Attach the cylinder assembly to the upper mounting bracket using the retaining pin and hair pin retainer (Figure 15).

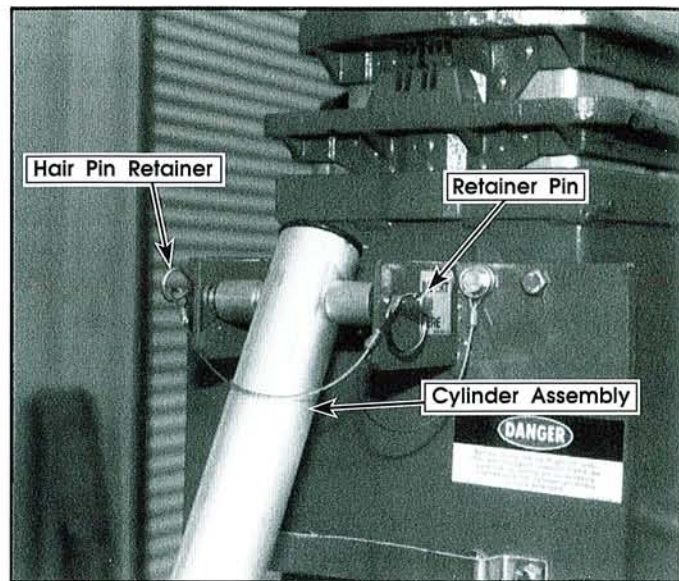


Figure 15: Cylinder assembly secured with retaining pin

4. Place Tilt Back Handle in tilt/lift position by releasing locking pin and pulling handle out of the Tilt Back assembly until the locking pin engages (Figure 16).
5. Push down on the Tilt Back Handle until the unit comes to rest on the rear transport support frame. As the mast tilts back, counterbalance the machine's weight by increasing upward force on end of Tilt Back Handle (Figure 16). This allows machine to gently come to rest on Tilt Back casters.

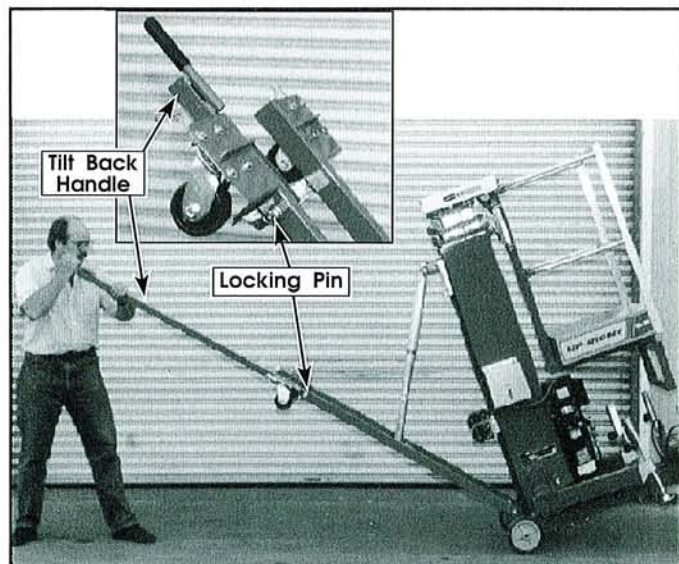
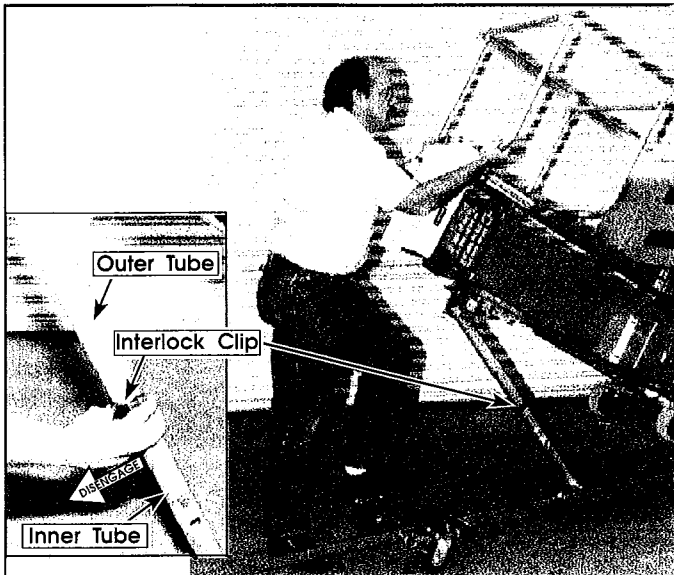


Figure 16: Lowering and raising with Tilt Back Handle

6. Disengage the Interlock Clip (Figure 17) from the inner tube, do not remove the Clip from the tube assembly, and use the cage top guardrail to pull down and compress the cylinder assembly.
7. Return Tilt Back Handle to storage position making sure locking pin engages.



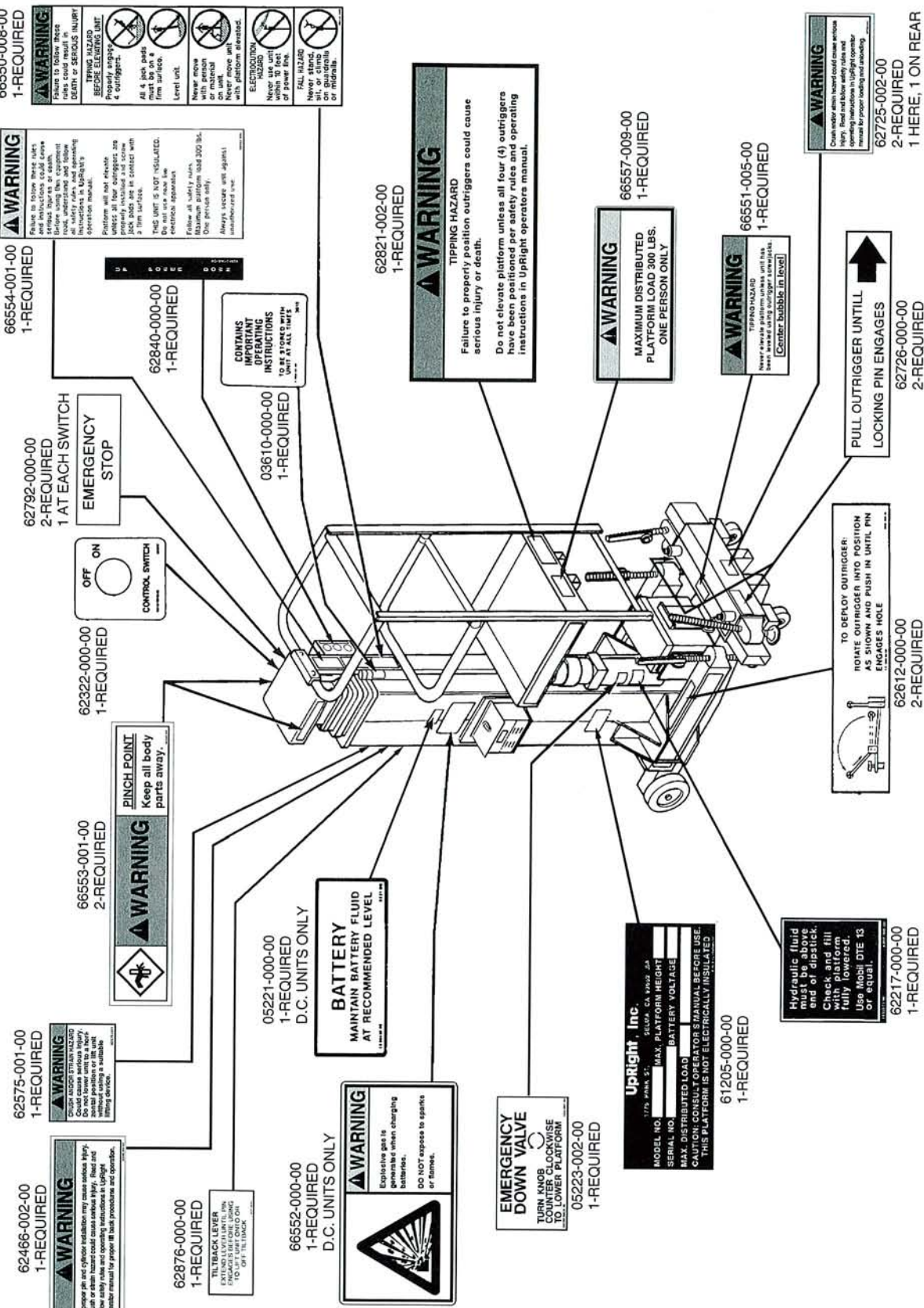
**Figure 17: Compressing cylinder assembly**

## **RAISING**

1. Verify that the Interlock Clip is in position over the hole in the outer tube (Figure 17). Then using the cage top guardrail lift up and extend the cylinder assembly until the Interlock Clip engages the inner tube.
2. Fully extend the Tilt Back Handle until the locking pin engages (Figure 16).
3. Lift up on the Tilt Back Handle. As the mast approaches vertical, counterbalance machine's weight by increasing the downward force on end of Tilt Back Handle (Figure 16). This allows the machine to settle gently on the front casters.
4. Return Tilt Back Handle to storage position making sure locking pin engages.
5. While holding Tilt Back frame, remove retaining pin and raise Tilt Back assembly to the stowed position. Secure with the retaining pin, making sure pin is fully inserted and hair pin retainer is installed.



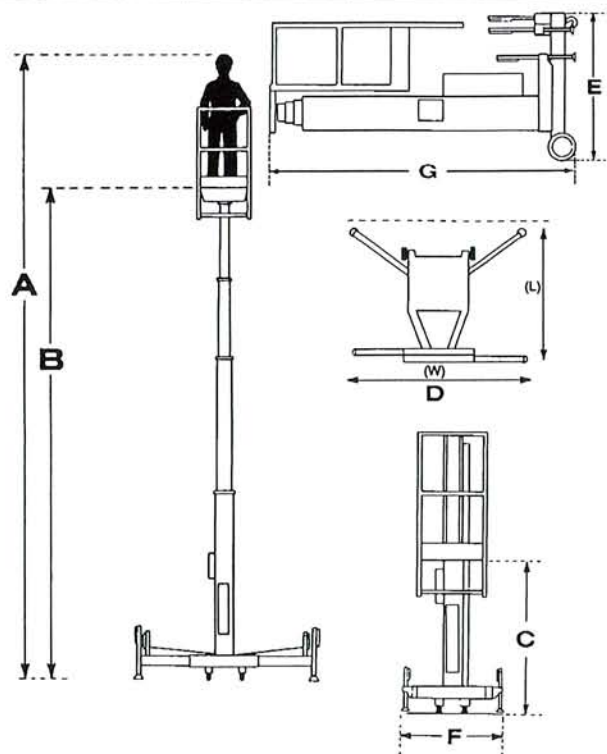
**LABEL INSTALLATION: THESE LABELS SHALL BE PRESENT AND IN GOOD CONDITION BEFORE OPERATING THE WORK PLATFORM. BE SURE TO READ, UNDERSTAND AND FOLLOW THESE LABELS WHEN OPERATING THE WORK PLATFORM.**



**NOTE: Labels can be ordered by using part number located by each label. For machines equipped with options consult service manual.**

# Specifications\*

ITEM	UL-20/26
Working Height (A)	26 ft.
Platform Height (B) (maximum)	19 ft. 6 in.
Platform Height (C) (lowered)	36 in.
Platform Capacity	300 lbs.
Platform Dimensions (L X W)	Narrow 22 in. X 21 in. Standard 22 in. X 26 in.
Outriggers Extended Dimensions (D) (L X W)	52 in. X 55 in.
Outriggers Stowed Dimensions (E) (F) (G) (L X W X H)	45 in. X 29 in. X 79 in.
Outriggers Removed Dimensions (L X W X H)	45 in. X 22 in. X 79 in.
Weight	
A.C. Model with Outriggers	633 lbs.
D.C. Model with Outriggers	686 lbs.
Lift System/Max. System Voltage	
A.C. Electric Motor	120 V.A.C. 60 Hz or 220 V.A.C. 50/60 Hz
D.C. Electric Power Source	1-12 Volt Battery, Grp. 27, 105 Amp/Hrs., Min. Wt. 52 lbs.
Battery Charger	Automatic, 120 V.A.C. 60 Hz or 220 V.A.C. 50 Hz Output: 10 Amps, 12 Volts D.C.
Maximum Hydraulic System Pressure	2000 PSI



\* Specifications subject to change without notice.

Meets or exceeds all applicable requirements of OSHA and ANSI A92.3-1990

## ROUTINE SERVICE

Use the following table as a guide for routine maintenance, refer to Service Manual for complete service instructions.

SERVICE OPERATION	INTERVAL			
	Daily	Monthly or 50 Hrs.	3 Months or 125 Hrs.	Yearly or 500 Hrs.
Check bubble level accuracy	X			
Check operation of outrigger interlocks	X			
Check battery fluid level and charge battery (D.C. models only)	X			
Check for peeling, faded or missing labels & replace	X			
Check condition of control cable	X			
Inspect mast assembly for bends, cracks or loose rivets	X			
Check chassis and platform emergency stop switch operation	X			
Check emergency lowering valve operation	X			
Check casters for damage	X			
Check hydraulic fluid level		X		
Check cage and cage support fasteners for proper torque		X		
Inspect and adjust sequence straps slack		X		
Lubricate lift chains and sheaves			X	
Change hydraulic fluid (ISO #46)				X

## FOR MORE INFORMATION

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USA

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Local Distributor: