

Operator Manual

U Drive 25

SERIAL NUMBERS 1120 TO CURRENT

WARNING

All personnel shall carefully read, understand and follow all safety rules, operating instructions and the Scaffold Industry Association's MANUAL OF RESPONSIBILITIES before performing maintenance on or operating any UpRight aerial work platform.

SAFETY RULES

NEVER elevate platform unless all four (4) outriggers have been properly installed. All wheels or screwjacks must be in solid contact with a firm surface before the platform is elevated.



NEVER attempt to push 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.

MACHINE must be driven only on smooth level floor surface.

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 platform if it contains more than one person or more than rated load (see specifications back page).

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

NEVER change operating or safety systems.

NEVER use outriggers from one model on another model.

CLOSE and secure cage 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 machine as a freight or personnel elevator.

NEVER recharge battery 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 manufacturer's consent.

NEVER use machine as a welding ground. Welding ground must be attached to same structural element which is being repaired.

Outrigger Installation

1. Remove the outriggers from storage locations on sides of mast.
2. Insert into outrigger socket in base (Figure 1).
3. Push in until locking pin engages hole in end of outrigger. Pull outward on outrigger to ensure engagement.
4. Repeat the above steps for all other outriggers. Make sure all four (4) locking pins are engaged.
5. Level the base, centering the bubble in the orbit level on the base by adjusting the screwjacks at the end of each outrigger (Figure 1). **DO NOT** release the tension on an outrigger, by turning counterclockwise, to level base.

IMPORTANT: All four (4) screwjack pads must be in solid contact with a firm surface and each outrigger indicator light must be lit before the platform is elevated.

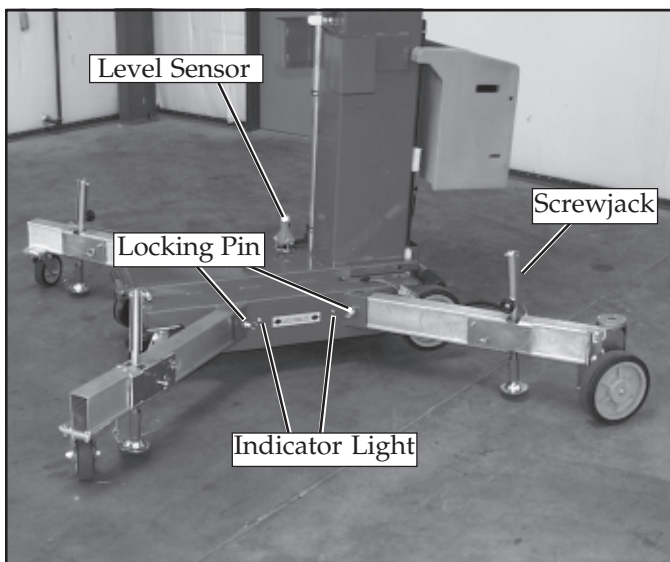


Figure 1: Installing outriggers

Wheel Installation

1. After outriggers have been installed, turn screwjacks clockwise until wheels can be installed.
2. Install rear wheels into rear outriggers. Pin wheels in place using pins provided.

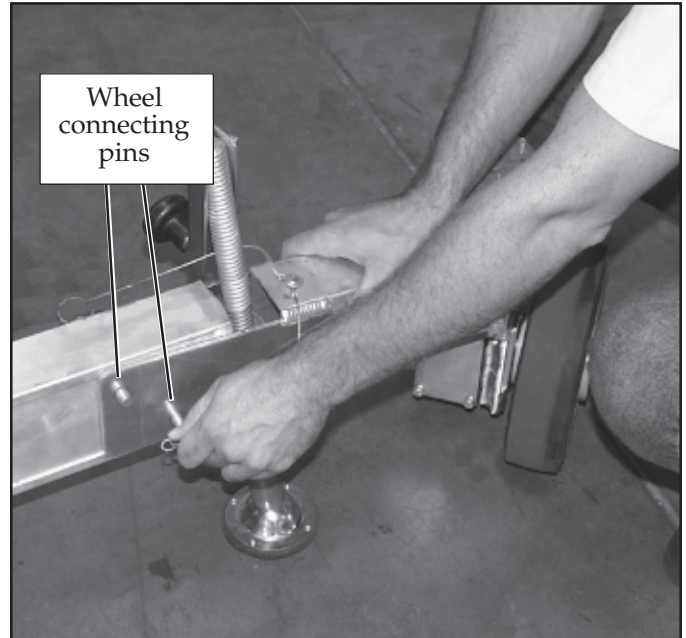


Figure 2: Installing wheels

3. Plug connector from rear wheels into connector from chassis wiring.

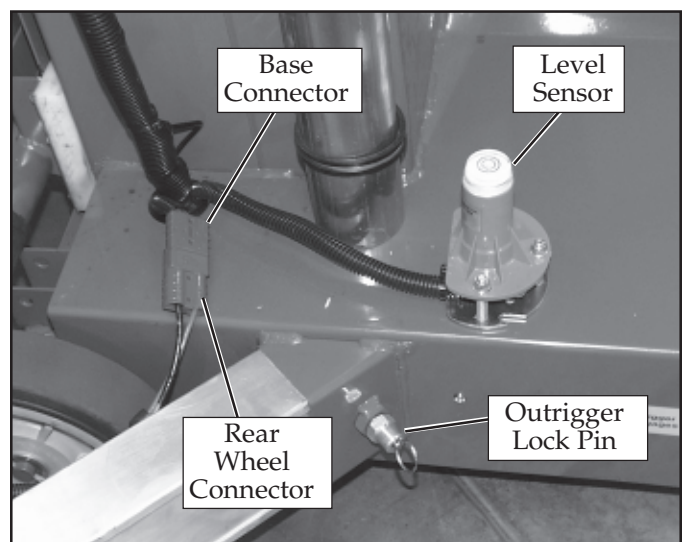


Figure 3: Connecting rear wheel cables

4. Install front wheels. Pin front wheels in place using pins provided.



WARNING



BE SURE all wheels are securely attached. Pull on wheels to check for loose pins.

5. Lower screwjacks (turn counterclockwise) until wheels are resting on ground. Be sure screwjacks are high enough to avoid interference with the ground when machine is driven.



WARNING



DO NOT use machine if screwjack limiting tubes have been removed. **Remove machine from service and repair before using.**

IMPORTANT: All four wheels must be in solid contact with the ground and each outrigger indicator light must be lit before the machine is operated.

Pre-Operation & Safety Test



DANGER



NEVER perform this test from the platform.

1. On a solid level surface, install outriggers and wheels.
2. Lower platform completely. Remove fill cap on hydraulic tank and check for proper hydraulic oil level.
3. Activate lift function on platform controller while pushing level sensor out of alignment. Listen for audible tilt alarm.
4. **Platform should not elevate.**



WARNING



DO NOT use a machine that elevates when level sensor is off of level or tension has been released on an outrigger. **Remove machine from service and repair before using.**

5. Release level sensor and fully elevate platform.
6. Visually inspect elevating assembly, chains and straps. Check for missing or loose parts.
7. Partially lower platform and listen for audible lowering alarm.
8. Turn Emergency Lowering Valve knob to check for proper operation. To close Emergency Lowering Valve, turn the knob until it snaps back in.

Operation Using Wheels

Before operating the machine, be sure that:

- The operator has been thoroughly trained on this machine.
- The operator has read, fully understands, and follows this Operator Manual and the Scaffold Industry Association's MANUAL OF RESPONSIBILITIES.
- The unit has been properly set up with all outriggers and wheels properly installed and machine has passed the Safety Interlock Test (page 5).

NOTE: Platform will not elevate unless all four outriggers and wheels are properly installed with wheels firmly in contact with floor and each outrigger indicator lamp lit.

1. Check for external damage to the mast.
2. Turn Key to **ON**, Key Switch is located on the left side of the mast (Figure 4).
3. Pull out on Lower Emergency Stop Button, located on the left side of the mast, to turn switch ON.

IMPORTANT: In the event of an emergency push the button in to cut power to all controls.

4. Check that the area above the platform is clear before elevating the platform.
5. Release latch and raise upper half of cage. Enter the platform.
6. Lower upper half of the cage after entering platform making sure latch is engaged.
7. Pull out on Emergency Stop Button, located on platform control panel.

IMPORTANT: In the event of an emergency push the button in to cut power to all controls.

8. Push ON/OFF button. Green LED will blink.
9. Adjust Drive/Lift and High/Low switches for desired operation.
10. Holding Enable button down, push joystick ahead or back to move or raise machine.

NOTE: Move joystick right or left while driving forward or backwards to turn machine. Machine will only drive at high speed when platform is fully lowered.

NOTE: High/Low switch affects drive speed only. Lift/Lower speed is constant.

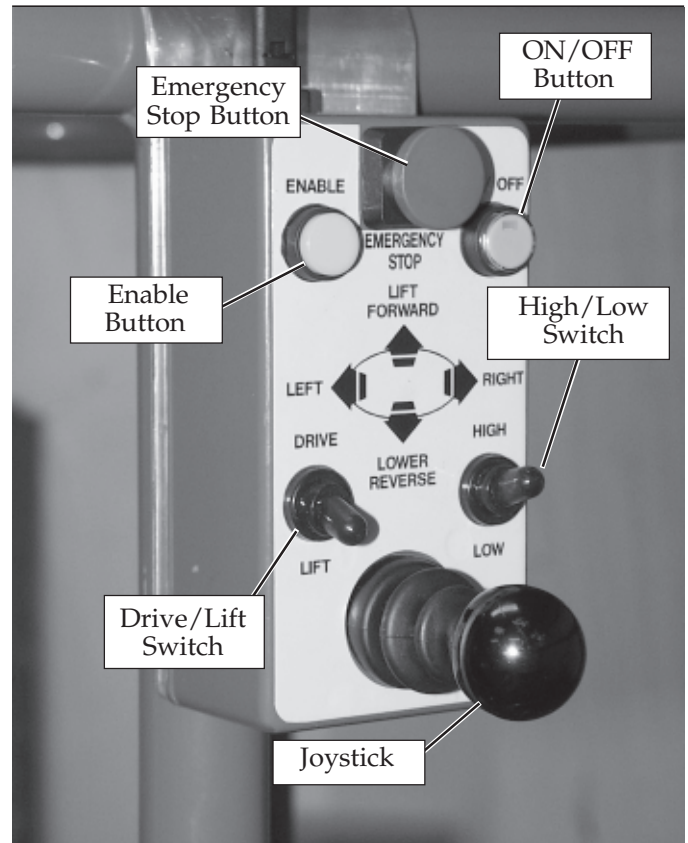


Figure 3: Platform Controls

IMPORTANT: Machine is designed to travel on smooth flat surfaces only.



WARNING



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

11. Check that the area below the platform is clear before lowering the platform.
12. After use, secure unit from unauthorized use by turning Key Switch to **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 through a cutout in the power unit cover on the left side of the mast.

1. Pull the knob out and turn one quarter turn either direction to open the Emergency Lowering Valve.
2. To close the Emergency Lowering Valve, turn the knob until it snaps back in.

NOTE: 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 is open.

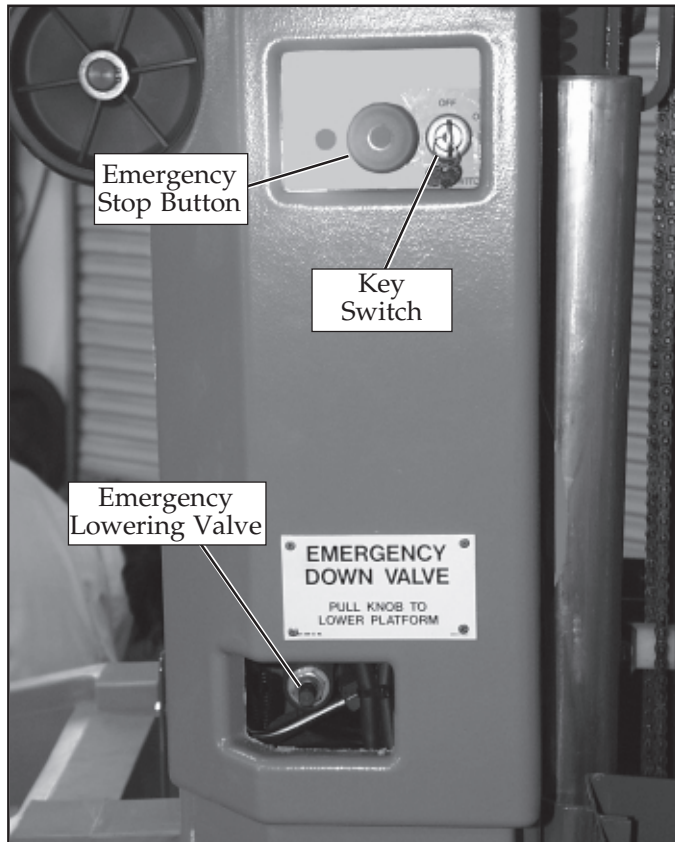


Figure 4: Base Controls

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.

Safety Interlock Test



DANGER



NEVER perform this test from the platform.

1. Properly install all four (4) outriggers and level base using screwjacks.
2. Release the tension on one (1) outrigger by turning the screwjack counterclockwise, until the indicator lamp is no longer lit.
3. Activate lift switch on side of mast to elevate the platform. **Platform should not elevate.**



WARNING



DO NOT use a machine that elevates when tension has been released on an outrigger. **Remove machine from service and repair before using.**

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.

Operation Using Outriggers Only

Before operating the machine, insure that:

- The operator has been thoroughly trained on this machine.
- The operator has read, fully understands, and follows this Operator Manual and the Scaffold Industry Association's MANUAL OF RESPONSIBILITIES.
- The unit has been properly set up with all four (4) outriggers properly installed and the base leveled, and the machine has passed the Safety Interlock Test.

Note: Platform will not elevate unless all four outriggers are properly installed with screwjack pads firmly in contact with floor and each outrigger indicator lamp lit.

1. Check for external damage to the mast.
2. Turn Key to **ON**, Key Switch is located on the left side of the mast (Figure 4).
3. Pull out on Lower Emergency Stop Button, located on the left side of the mast, to turn switch **ON**. In the event of an emergency push the button in to cut power to all controls.
4. Enter the platform by releasing the latch and lifting up on the upper half of the cage.
5. Lower upper half of the cage after entering platform making sure latch is engaged.
6. Check that the area above the platform is clear before elevating the platform.
7. Pull out on Emergency Stop Button, located on platform control panel. In the event of an emergency push the button in to cut power to all controls.
8. Push **ON/OFF** button. Green LED will blink.
9. Adjust Drive/Lift switch to Lift position.
10. Holding Enable button down, push joystick ahead to raise machine.

NOTE: High/Low switch affects drive speed only. Lift/Lower speed is constant.

11. Check that the area below the platform is clear before lowering the platform.
12. After use, secure unit from unauthorized use by turning Key Switch to **OFF** and remove 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 through a cutout in the power unit cover on the left side of the mast (Figure 4).

1. Pull the knob out and turn $\frac{1}{4}$ turn to open the Emergency Lowering Valve.
2. To close the Emergency Lowering Valve, turn the knob until it snaps back in.

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 is open.

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 remove the key.

Battery Maintenance



WARNING



Hazard of explosive gas mixture. Keep sparks, flame and smoking materials away from battery.

Always wear safety glasses when working with batteries.

Battery fluid is highly corrosive. Rinse away any spilled fluid thoroughly with clean water.

Always replace battery with UpRight battery or manufacturer approved replacement weighing at least 52 lbs. (23.6 kg) each.

Check battery fluid level daily, especially if work platform is being used in a warm, dry climate.

If electrolyte level is less than $\frac{3}{8}$ in. (10 mm) above plates add distilled water only. **DO NOT** use tap water with high mineral content, it will shorten battery life.

Keep terminals and tops of batteries clean.

Refer to the Service Manual to extend battery life and for complete service instructions.

BATTERY CHARGING

Charge batteries at end of each work shift or sooner if batteries have been discharged.



WARNING



Charge battery in a well ventilated area.

Do not charge battery when the work platform is in an area containing sparks or flames.

Permanent damage to battery will result if not immediately recharged after discharging.

Keep charger dry.

1. Check battery fluid level. If electrolyte level is lower than 3/8 in. (10 mm) above plates add distilled water only.
2. Verify charger voltage switch is set to 12 volts.
3. Connect extension cord (12 ga. (1.5 mm²) conductor minimum and 50 ft. (15 m) in length maximum) to charger plug.
Connect extension cord to properly grounded outlet of proper voltage and frequency.
4. Set charger control to "Conventional" setting. Charger ammeter should indicate charge rate.
5. When battery is fully charged, charger automatically turns itself off. Disconnect extension cord.

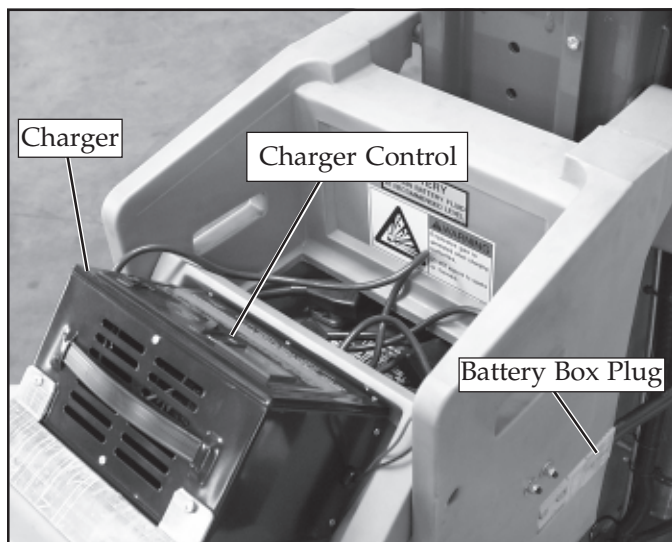


Figure 5: Battery Box

Loading

1. Disconnect the plug from the battery box and remove the battery box from the rear of the machine (Figure 6).



CAUTION



The battery box is heavy, 94.5 lbs. (42.9 kg), lift properly (or have someone help you) to prevent back injury.



WARNING



Make sure loader fully engages tailgate or vehicle bed.

2. Raise the loader support bracket and engage the retaining pin in the top hole of the loader channel (Figure 6).
3. Secure the loader to the loader support bracket with the gravity hook.
4. Position the unit so the back of the machine comes in contact with the vehicle bed or tailgate.
5. Release the gravity hook and slide the loader down until it comes into contact with the vehicle bed or tailgate. Then reposition the loader support bracket so the retaining pin is in the **first** available hole above the loader.
6. Release the locking pin and pull the handle out until the locking pin engages the hole in the end of the handle (Figure 7).
7. Lift up on the handle, using the loader as a pivot, until the unit rotates to a horizontal position in the vehicle bed (Figure 8).
8. Push the base of the unit towards the front of the vehicle bed. The machine will slide on the loader until the rear wheels are on the bed. The unit may then be rolled on the rear wheels and upper casters.
9. Return the handle to the stored position, making sure the locking pin engages the handle.

10. Secure unit with suitable strength rope or tie straps using forklift pockets located under the base of the unit and upper caster axle.



CAUTION



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

DO NOT overtighten the rope or tie straps, damage to the machine will result.

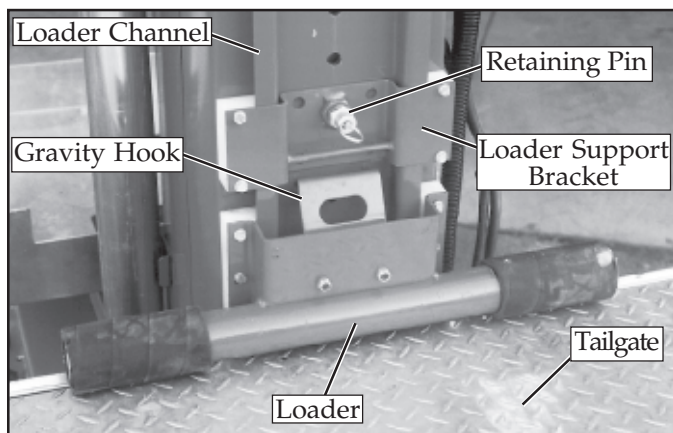


Figure 6: Loader in load position

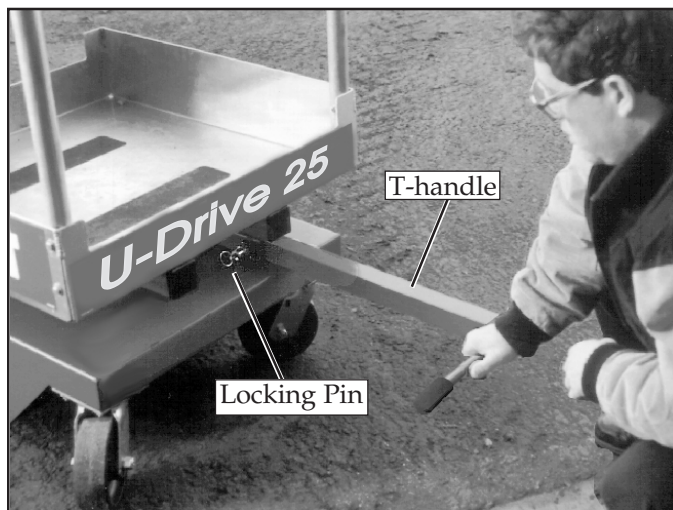


Figure 7: Handle positioning

UNLOADING

1. Unsecure the unit.
2. Release the locking pin and pull the handle out until the locking pin engages the hole in the end of the handle.
3. Roll the unit back until the rear wheels are off the edge of the tailgate or vehicle bed.
4. Pull downward on the handle, 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 handle. This allows the unit to settle gently on the wheels, avoiding undue impact on the unit.
5. Return the handle to the stored position, making sure the locking pin engages the handle.
6. Replace the battery and reconnect the battery box plug making certain it is fully engaged.



Figure 8: Tilting machine onto or off of a vehicle

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Specifications*

ITEM	U DRIVE 25
Platform Height	
Maximum	25 ft. (7.62 m)
Minimum	15 in. (38 cm)
Platform Capacity	350 lbs. (159 kg)
Stored Dimensions	
Vertical Height	79 in. (1.98 m)
Width	29 in. (74 cm)
Depth	49 in. (1.24 m)
Footprint (screw jacks only)	
Width/Length	59 in. (1.5 m)/56 in. (1.42 m)
Footprint (wheels attached)	
Width/Length	80.5 in. (2.1 m)/75 in. (1.9 m)
Weight-overall	903 lbs. (409.6 kg)
Battery Box	94.5 lbs. (42.9 kg)
Guardrail Height	43.5 in. (1.1 m)
Toe Board Height	6 in. (152 mm)
System Voltage	
DC Electric Power Source	2-12 Volt Battery, Grp. 22 60 Amp/Hrs., Min. Wt. 52 lbs. (23.6 kg)
Battery Charger	120 VAC 60 Hz or 220 VAC 50 Hz Output: 5 Amps, 24 Volts D.C.
Maximum Hydraulic System Pressure	2400 PSI (165 bar)
Drive Speed	2 MPH/0.2MPH
Raising Speed	22 Seconds

***Specifications subject to change without notice. Meets or exceeds all applicable requirements of OSHA and ANSI A92.6-1999.**

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	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
Check drive wheels for loose, missing or worn parts	X			

UpRight

Local Distributor:

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 PARTSFAX: (559) 896-9244
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