

Operator Manual

LX31/LX41 Electric

SERIAL NO. 4022 to 4390

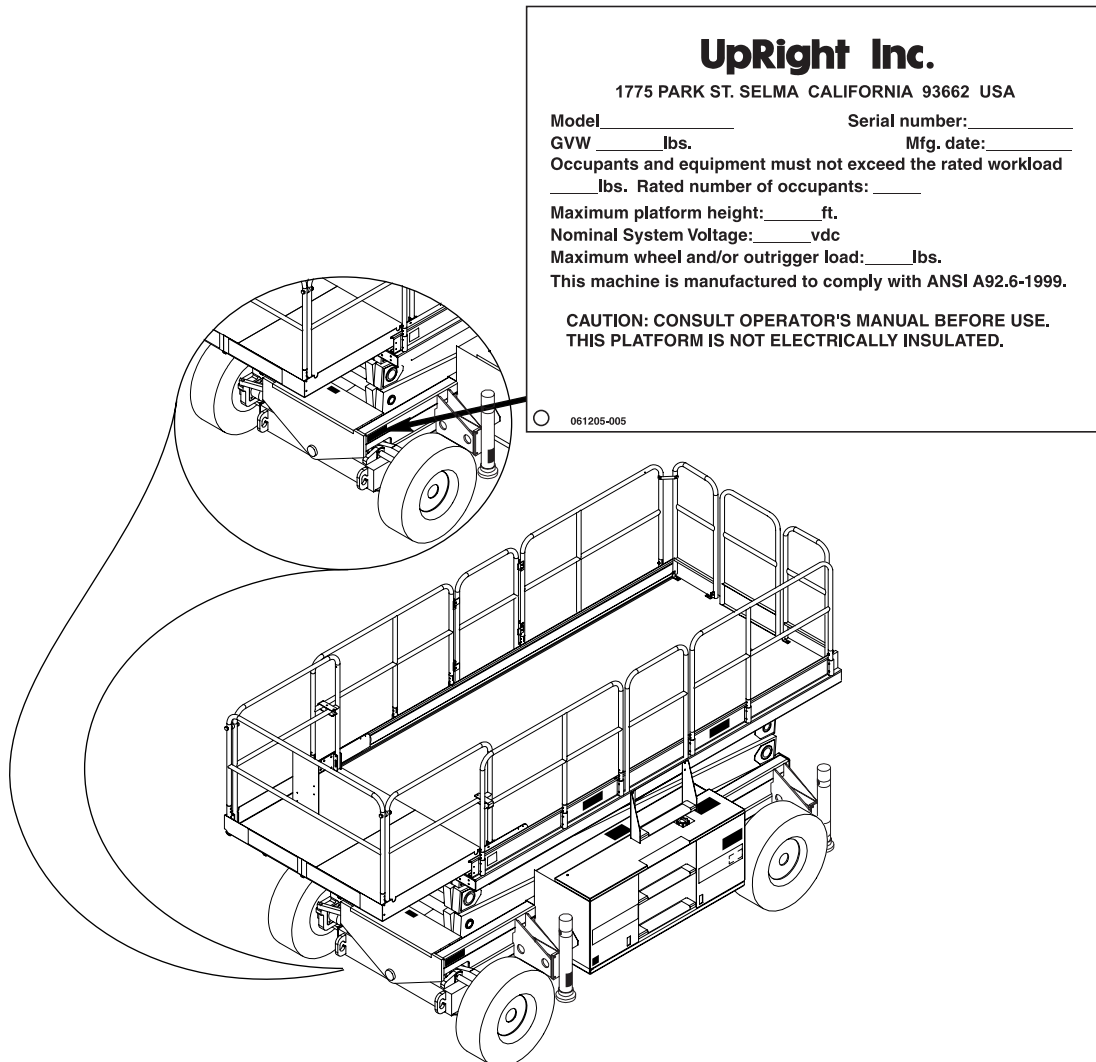
WARNING

All personnel shall carefully read, understand and follow all safety rules, operating instructions, and the Scaffold Industry Association's MANUAL OF RESPONSIBILITIES of ANSI A92.6-1999 before performing maintenance on or operating any UpRight Aerial Work Platform.

LX Electric

LX31/LX41

When contacting UpRight for service or parts information, be sure to include the MODEL and SERIAL NUMBERS from the equipment nameplate. Should the nameplate be missing, the SERIAL NUMBER is also stamped on top of the chassis above the front axle pivot.



UpRight, Inc.

801 South Pine Street
Madera, California 93637

TEL: 559-662-3900

FAX: 559-673-6184

PARTS: 1-888-UR-PARTS

PARTS FAX: 1-800-669-9884

UpRight

Call Toll Free in U.S.A.

1-800-926-LIFT

UpRight

Unit S1, Park West Industrial Park
Friel Avenue
Nangor Road
Dublin 12, Ireland

TEL: +353 1 620 9300


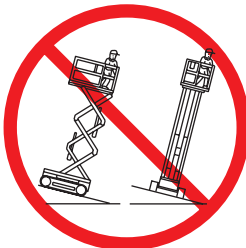


FAX: +353 1 620 9301

OPERATOR MANUAL

WARNING

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

Safety Rules

Electrocution Hazard	Tip Over Hazard	Collision Hazard	Fall Hazard
			
NEVER operate the machine within ten (10) feet of power lines. THIS MACHINE IS NOT INSULATED.	NEVER operate or drive with the platform elevated unless on firm, level surface.	NEVER position the platform without first checking for overhead obstructions or other hazards.	NEVER climb, stand or sit on the platform guardrails or midrail.

- **NEVER** exceed the maximum platform load. See "Specifications" on page 16.
- **NEVER** operate the machine if all guardrails are not properly in place and secured with all fasteners properly torqued.
- **NEVER** operate the machine without first surveying the work area for surface hazards such as holes, drop-offs, bumps, curbs, or debris.
- **ALWAYS** close and secure the entrance after entering the platform.
- **NEVER** use ladders or scaffolding on the platform.
- **NEVER** attach overhanging loads or increase platform size.
- **LOOK** up, down and around for overhead obstructions and electrical conductors.
- **DISTRIBUTE** all platform loads evenly on the platform.
- **NEVER** use damaged equipment. (Contact UpRight for instructions. See toll free phone number on inside back cover.)
- **NEVER** change operating or safety systems.
- **INSPECT** the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, damaged cables or hoses, loose wire connections, and wheel bolts.
- **NEVER** climb down elevating assembly when the platform is elevated.
- **IF ALARM SOUNDS** while the platform is elevated, **STOP**, carefully lower the platform. Move the machine to a firm, level surface.
- **IN CASE OF EMERGENCY** push the Emergency Stop Button to cut power to all machine functions.
- **NEVER** perform service on the machine while the platform is elevated without blocking the elevating assembly.
- **NEVER** recharge batteries near sparks or open flame; batteries that are being charged emit explosive hydrogen gas.
- **NEVER** replace any component or part with anything other than original UpRight replacement parts without the manufacturer's written consent.
- **VERIFY** that all labels are in place and legible before using.
- **NEVER** tow the machine. Transport by truck or trailer only.
- **AFTER USE**, secure the machine against unauthorized use by turning the Key Switch off and removing the key.

California Proposition 65 Warning

Battery Posts, terminals and related accessories contain lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

CONTENTS

Introduction	3
General Description	3
Controls and Indicators	4
Pre-Operation & Safety Inspection	4
System Function Inspection	5
Operation	6
Travel with Platform Lowered	6
Travel with Work Platform Elevated	6
Steering	6
Raising and Lowering the Platform	7
Leveling the Platform (Outrigger equipped machines only)	7
Outrigger Switches and Indicator Lights	7
To Level the Platform (Extend the Outriggers)	7
To Retract the Outriggers	7
Emergency Lowering	8
Towing or Winching	8
Parking Brake Release	8
After Use Each Day	8
Fold Down Guardrails	9
Fold Down Procedure	9
Erection Procedure	9
Transporting the Work Platform	10
Preparation for Shipment	10
Lifting By Crane	10
Driving or Winching onto a Truck or Trailer	10
Maintenance	11
Blocking the Elevating Assembly	11
Brace Installation	11
Brace Removal	11
Hydraulic Fluid	11
Battery Maintenance	12
Battery Charging	12
Preventative Maintenance Schedule	13
Daily Preventative Maintenance Check List	13
Maintenance Table Key	13
Maintenance Report	13
Labels	14
Specifications	16

INTRODUCTION

This manual covers the operation of the LX 31 and LX 41 Electric machines. **This manual must be stored on the machine at all times.**

GENERAL DESCRIPTION

1. Platform

The platform has a reinforced steel floor, guardrails with midrail, toeboards and an entrance gate at the rear and both sides of the platform. The guardrails can be folded down for access through doors or for shipment.

2. Slide-out Deck



DO NOT use the maintenance platform without guardrails properly assembled and in place

3. Platform Controls

The platform controls contain the controls to operate the machine. It should be hung on the front, left, or right guardrail.

4. Manual Case

5. Elevating Assembly

The platform is raised and lowered by the elevating assembly; a five section scissor assembly powered by two single-stage lift cylinders.

6. Control Module

The control module contains the horn/alarms, batteries, and chassis control panel.

7. Power Module

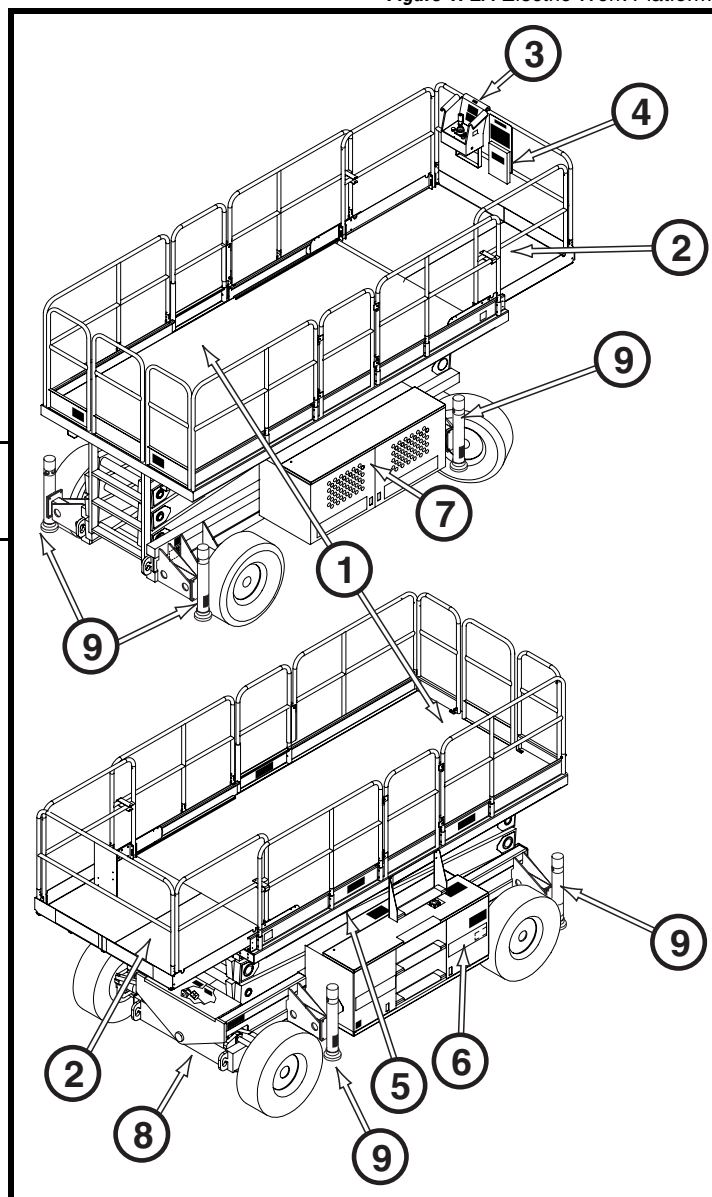
The power module contains the hydraulic valve manifold, hydraulic pumps, and hydraulic reservoir.

8. Chassis

The chassis is a structural frame that supports all the components of the machine.

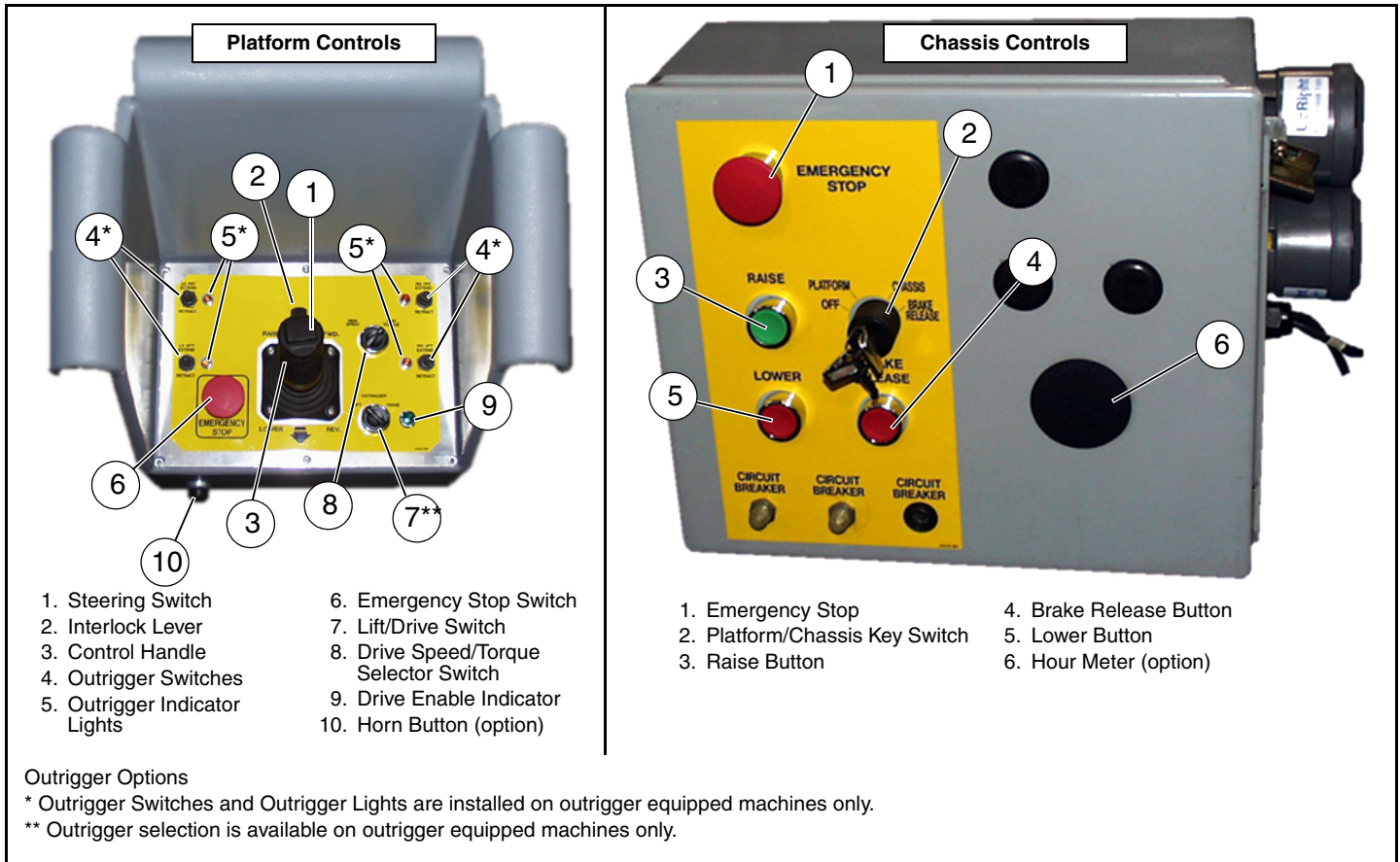
9. Outriggers (optional)

Figure 1: LX Electric Work Platform



CONTROLS AND INDICATORS

Figure 2: Controls and Indicators



PRE-OPERATION & SAFETY INSPECTION

NOTE: Carefully read, understand and follow all safety rules, operating instructions, labels and National Safety Instructions/Requirements. Perform the following steps each day before use.

1. Open modules and inspect for damage, fluid leaks or missing parts.
2. Check the hydraulic fluid level sight gauge on the hydraulic reservoir with the platform fully lowered. Add fluid if necessary.
3. Check that fluid level in the batteries is correct (see "Battery Maintenance" on page 12).
4. Check that all guardrails are in place, the slide-out deck extension is secured with the pin, and all fasteners are properly tightened.
5. Check tire pressure: 5,2 bar (**75 psi**).
6. Carefully inspect the entire machine for damage such as cracked welds or structural members, loose or missing parts, fluid leaks, damaged cables or hoses, loose connections and tire damage.

SYSTEM FUNCTION INSPECTION

WARNING

STAND CLEAR of the work platform while performing the following checks.

Before operating the machine, survey the work area for surface hazards such as holes, drop-offs, bumps and debris.

Check in **ALL** directions, including above the work platform, for obstructions and electrical conductors.

Protect control console cable from possible damage while performing checks.

1. Move the machine, if necessary, to an unobstructed area to allow for full elevation.
2. Place chassis and platform Emergency Stop Switches in the ON position by pulling the buttons out.
3. Verify that the Platform/Chassis Switch is set to PLATFORM.
4. Turn the Platform Controls Key Switch clockwise to ON.
5. Position the Lift/Drive Switch to the DRIVE position. The drive enable light should be ON.
6. With the Speed Range Switch first in LOW SPEED and then in HIGH SPEED, depress the Interlock Lever and slowly push the Control Handle to FORWARD then REVERSE positions to check for speed and directional control. The farther you push or pull the Control Handle, the faster the machine will travel.
7. Depress the Interlock Lever and push the Steering Switch RIGHT then LEFT to check for steering control.
8. Optional Outrigger Equipped Machines:
 - a. With the Lift/Outrigger/Drive Switch in DRIVE, depress the Interlock Lever on the Control Handle and position each Outrigger Switch to the EXTEND position.
 - Outriggers should be disabled. If an outrigger extends during this test **STOP**. Remove the machine from service until it is repaired.
 - b. Turn the Drive/Outrigger/Lift Switch to OUTRIGGER.
 - c. Depress the Interlock Lever on the Control Handle and position each Outrigger Switch to the EXTEND position to deploy all four (4) outriggers.
 - Check the outrigger indicator lights; they should be ON.
 - d. Depress the Interlock Lever on the Control Handle and position each Outrigger Switch to the RETRACT position.
 - Partially retract all four (4) outriggers. The outrigger indicator lights should FLASH.
 - Fully retract all four (4) outriggers. The outrigger indicator lights should be OFF.
9. Open the control module covers to gain access to the chassis controls and Level Sensor.
10. Turn the Platform/Chassis Switch to CHASSIS.
11. Push the Raise Button to elevate platform while pushing the Level Sensor off of level. The platform should only partially elevate and the tilt alarm should sound. If the platform continues to elevate and/or there is no alarm, **STOP** and remove the machine from service until it is repaired.
12. Release the Level Sensor and fully elevate the platform.
13. Visually inspect the elevating assembly, lift cylinder, cables and hoses for damage or erratic operation. Check for missing or loose parts.
14. Lower the platform partially by pushing in on the Lower Button, and check operation of the audible lowering alarm.
15. Open the Chassis Emergency Lowering Valve to check for proper operation (refer to "Emergency Lowering" on page 8). Once the platform is fully lowered, close the valve by releasing the knob.
16. Turn the Platform/Chassis Switch to PLATFORM.
17. Close and secure the module covers.
18. Enter the platform making sure the entry-way is secured.
19. Position the Lift/Drive Switch to LIFT.
20. Depress the Interlock Lever and slowly push the Control Handle to UP to raise the platform; fully actuate the Control Handle to check proportional lift speed. Slowly pull the Control Handle to the DOWN position to lower the platform. Check that the lowering alarm sounds.
21. Optional Outrigger Equipped Machines:
 - a. With the Lift/Outrigger/Drive Switch in LIFT, depress the Interlock Lever on the Control Handle and position any Outrigger Switch to the EXTEND position.
 - Outriggers should be disabled. If an outrigger extends during this test, **STOP**. Lower the platform and remove the machine from service until it is repaired.
22. Turn the controller Key Switch to OFF, push the Emergency Stop Button, and dismount the platform.

OPERATION

NOTE: Before operating the machine, ensure that the pre-operation and safety inspection has been completed, any deficiencies have been corrected, and the operator has been thoroughly trained on this machine.



Never operate the machine with the parking brakes released. Serious injury or damage could result.

TRAVEL WITH PLATFORM LOWERED

1. Verify the following:
 - the chassis Emergency Stop Button is in the ON position (pull out).
 - the Drive Enable indicator is ON.
 - the Platform/Chassis Switch is on PLATFORM.

NOTE: If the drive enable indicator is OFF, verify that the platform is fully lowered and (if so equipped) the outriggers are fully retracted.

2. After mounting the platform, close and latch the gate. Check that the guardrails are in position and properly assembled, with the fasteners properly torqued.
3. Check that the route is clear of persons, obstructions, holes and drop-offs, and is capable of supporting the wheel loads.
4. Check clearances above, below and to the sides of the platform.
5. Pull the controller Emergency Stop Button out to the ON position.
6. Turn the Platform Controls Key Switch clockwise to ON.
7. Set the Lift/Drive Switch to DRIVE.
8. Set the Speed Range Switch to LOW SPEED.
9. Grasp the Control Handle so that the Interlock Lever is depressed (releasing the Interlock Lever cuts power to controller). Slowly push or pull the Control Handle to FORWARD or REVERSE to travel in the desired direction. The farther you push or pull the Control Handle from center, the faster the machine will travel.
10. While moving, push the Speed Range Switch to HIGH SPEED for travel on level surfaces or to LOW SPEED for climbing grades or traveling in confined areas.

TRAVEL WITH WORK PLATFORM ELEVATED

Travel with the platform elevated **ONLY** on firm and level surfaces.

NOTE: The machine will travel at reduced speed when in the elevated position.

1. Check that the route is clear of persons, obstructions, holes and drop-offs, is level and capable of supporting the wheel loads.
2. Check clearances above, below and to the sides of the platform.
3. Position the Lift/Drive Switch to the DRIVE position.
4. Push the Control Handle to FORWARD or REVERSE for the desired direction of travel.
5. If the machine quits driving and the tilt alarm sounds, immediately lower the platform and move the machine to a level location before re-elevating the platform.

STEERING

Push the Steering Switch **RIGHT** or **LEFT** to turn the wheels. Observe the tires while maneuvering to insure proper direction.

NOTE: Steering is not self-centering. Wheels must be returned to the straight ahead position by operating the Steering Switch.

RAISING AND LOWERING THE PLATFORM

The machine must be on a firm, level surface, capable of supporting the weight of the machine. On machines equipped with optional outriggers, use the outriggers to level the machine. Refer to “Leveling the Platform (Outrigger equipped machines only)” on page 7.

1. Position the Lift/Drive Switch to LIFT.
2. While holding the Control Handle so the Interlock Lever is depressed, push the Control Handle slowly to UP to raise the platform. Pushing the Control Handle farther increases the lift speed.
3. When the work task is completed, position the Lift/Drive Switch to LIFT, and lower the platform by pulling back on the Control Handle until the platform is fully lowered.

LEVELING THE PLATFORM (OUTRIGGER EQUIPPED MACHINES ONLY)



When using outriggers, all four (4) outriggers must be in firm contact with the supporting surface.

OUTRIGGER SWITCHES AND INDICATOR LIGHTS

For each outrigger, there is an Outrigger Switch and an outrigger indicator light (refer to Figure 2).

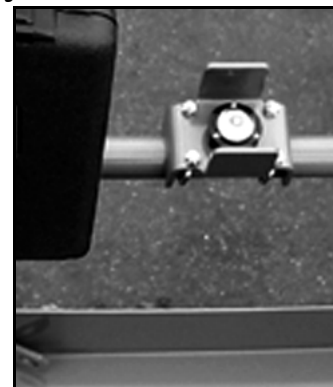
Each Outrigger Switch will raise and lower one outrigger.

Each outrigger indicator light will indicate the position of one outrigger.

- When the indicator light is OFF - the outrigger is fully retracted.
- When the indicator light is FLASHING - the outrigger is partially extended.
- When the indicator light is ON - the outrigger is in firm contact with the supporting surface.

TO LEVEL THE PLATFORM (EXTEND THE OUTRIGGERS)

Figure 3: Platform Orbit Bubble Level



1. Make sure that the extension deck is retracted before operating the outriggers.
2. Look around the machine; make sure that there is nothing obstructing the outriggers, and that the surface beneath them is suitable to support the weight of the machine.
3. Position the Lift/Outrigger/Drive Switch set to OUTRIGGER.
4. Depress the Interlock Lever on the Control Handle, and operate the Outrigger Switches to extend each outrigger until it is making firm contact with the supporting surface.
5. While observing the bubble level on the guardrail, extend the outrigger opposite the position of the bubble until the platform is level. For example: if the bubble is to the front and left in the orbit, extend the rear right outrigger. Continue to adjust until the bubble is centered in the small circle indicating that the platform is level.
6. Confirm that all four (4) outriggers are in firm contact with the supporting surface. The outriggers are in contact with the supporting surface when the indicator lights are ON.

TO RETRACT THE OUTRIGGERS

1. Fully lower the platform.
2. Position the Lift/Outrigger/Drive Switch set to OUTRIGGER.
3. Depress the Interlock Lever on the Control Handle, and position each Outrigger Switch to RETRACT.
 - The outrigger indicator lights will be OFF when the outriggers are fully retracted.
 - The drive enable indicator light will not come on until all four outriggers are fully retracted.

EMERGENCY LOWERING

The Emergency Lowering Control Knob is located at the rear of the machine at the base of the scissor assembly.

1. Open the emergency lowering valve by pulling on the knob and holding it.
2. Once the platform is fully lowered, release the knob to close the valve.

Figure 4: Emergency Lowering Valve,



TOWING OR WINCHING

Perform the following only when the machine will not operate under its own power and it is necessary to move the machine or when winching onto a transport vehicle (see “Transporting the Work Platform” on page 10).

CAUTION

DO NOT tow or winch the machine faster than 0,3 m/s (1 ft./s). Faster speeds will damage drive components and void the warranty.

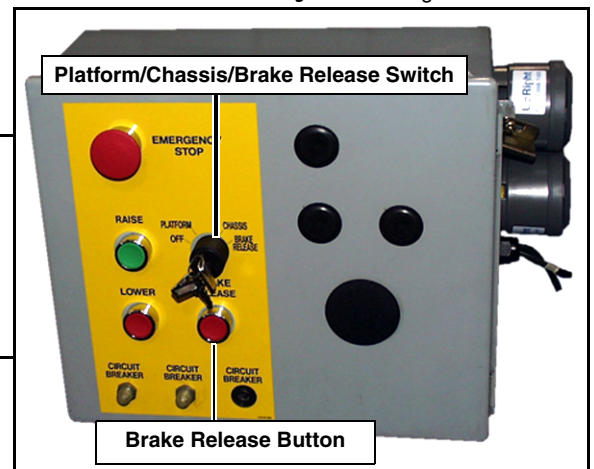
PARKING BRAKE RELEASE

WARNING

*Never operate the machine with the parking brakes released. Serious injury or damage could result.
Never release the brakes if the machine is on a slope.
Chock the wheels before releasing the parking brakes.
Hook the machine to a towing vehicle before releasing the parking brakes.*

1. Turn the Chassis/Platform/Brake Release Switch to the Brake Release position.
 - Alarm will sound
2. Momentarily push the Brake Release Button.
3. The machine will now roll when pushed or pulled.
4. For normal operation, turn the Platform/Chassis/Brake Release Switch to PLATFORM.
5. Verify that the parking brakes have engaged before the machine is operated.

Figure 5: Parking Brake Release



AFTER USE EACH DAY

1. Ensure that the platform is fully lowered.
2. Park the machine on level ground, preferably under cover, secure against vandals, children or unauthorized operation.
3. Turn the Key Switch to OFF and remove the key to prevent unauthorized operation.

FOLD DOWN GUARDRAILS

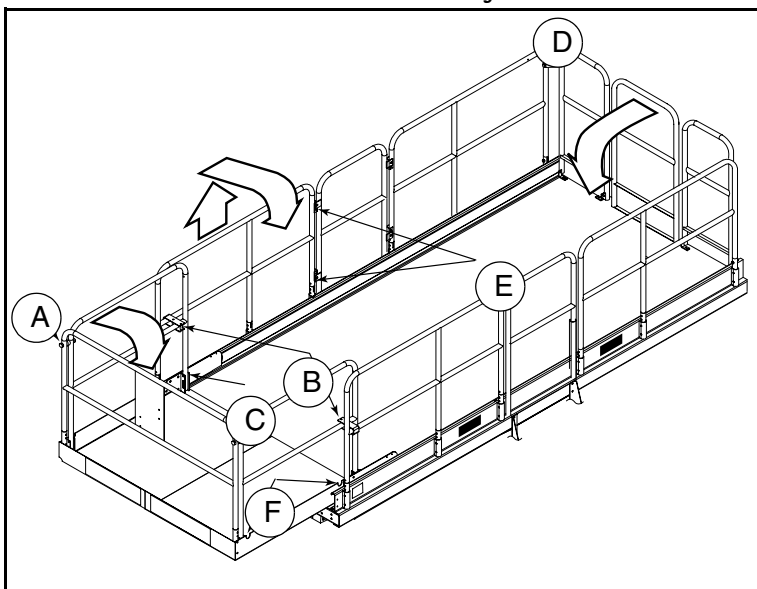
This procedure is only for passing through doorways. Guardrails must be returned to proper position before using the machine.

FOLD DOWN PROCEDURE

NOTE: When performing the following procedures, retain all fasteners.

1. Place the controller on the platform.
2. Starting at the slide-out deck:
 - remove nuts, bolts and washers from the top front corners of guardrails (A)
 - remove the nuts, bolts and washers from the slide-out deck side guardrail mid-rails (B)
 - remove nuts, bolts and washers located at the top of the sockets that hold the slide-out deck side guardrails to the deck (C)
 - fold the side guardrails down onto the slide-out deck platform
 - leave the end rail up and slide the deck all the way in.
3. Go to the rear of the platform:
 - close and latch the rear gate
 - remove the nuts, bolts, washers, and corner brackets from the top of the rear guardrail
 - fold the rear guardrail down onto the platform, being careful to keep the gate latched.
4. Unlatch the side gate so the left side guardrails can be folded down in two separate pieces. Also remove the nuts, bolts and washers opposite the gate latch on the right side guardrail so it too can be separated into two pieces (E).
5. Fold the rear half of the side guardrails onto the deck:
 - lift up and fold down so the guardrails rest on the deck, on top of the rear guardrail.
6. Fold the front half of the side guardrails onto the deck:
 - lift up and fold down so the guardrails rest on the slide-out deck, with the guardrail posts resting in the cutouts on the slide-out deck toeboard (F).
7. Lift up and fold down the front slide-out deck guardrail.

Figure 6: Fold Down Guardrails



ERECTION PROCEDURE

1. Raise the front guardrail, making sure it is pushed down to secure the guardrail in the vertical position.
2. Raise the side guardrails, making sure each is pushed down to secure the guardrail in the vertical position; align holes and install bolts, washers and nuts. Tighten securely.
3. Raise one of the slide-out deck side guardrail assemblies; align holes and install bolts, washers and nuts. Tighten securely. Repeat this procedure for the other slide-out deck side guardrails.
4. Raise the rear guardrail, and install the corner brackets, nuts, bolts and washers.
5. Hang the controller from the front guardrail.
6. Before operating machine check that all fasteners are in place and properly torqued.



Before operating machine, guardrails must be securely fastened in their proper position.

TRANSPORTING THE WORK PLATFORM

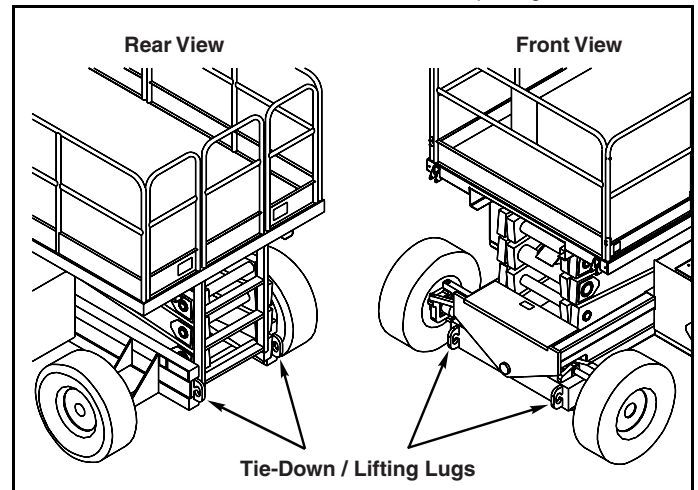
PREPARATION FOR SHIPMENT

1. Fully lower the platform.
2. Disconnect the battery negative (–) lead from the battery terminal.
3. Band the controller to the front guardrail.
4. Band the elevating linkage to the frame.

Figure 7: Transporting Work Platform

LIFTING BY CRANE

1. Secure straps to chassis tie down/lifting lugs only.
2. Place the platform onto the transport vehicle in transport position.
3. Chock the wheels.
4. Secure the machine to the transport vehicle with chains or straps of adequate load capacity attached to the chassis tie down/lifting lugs.



DRIVING OR WINCHING ONTO A TRUCK OR TRAILER

NOTE: Do not winch faster than 0,3 m/s (1 ft/s).

1. Move the machine onto the truck or trailer;
 - A. To **Drive** the machine onto the transport vehicle:
 - a. Move the machine up the ramp and into transport position.
 - b. Set the wheels straight and turn off the machine.
 - c. Chock the wheels.
 - B. To **Winch** the machine onto the transport vehicle:
 - a. Move the machine up to the ramp.
 - b. Attach the winch cable to the tie down/lifting lugs.
 - c. Release the parking brakes (refer to “Towing or Winching” on page 8).
 - d. Winch the platform into transport position
 - e. Chock the wheels.
2. Secure the machine to the transport vehicle with chains or straps of adequate load capacity attached to the chassis tie down/lifting lugs.

CAUTION

Overtightening of chains or straps through tie down/lifting lugs may result in damage to the machine.

MAINTENANCE

BLOCKING THE ELEVATING ASSEMBLY

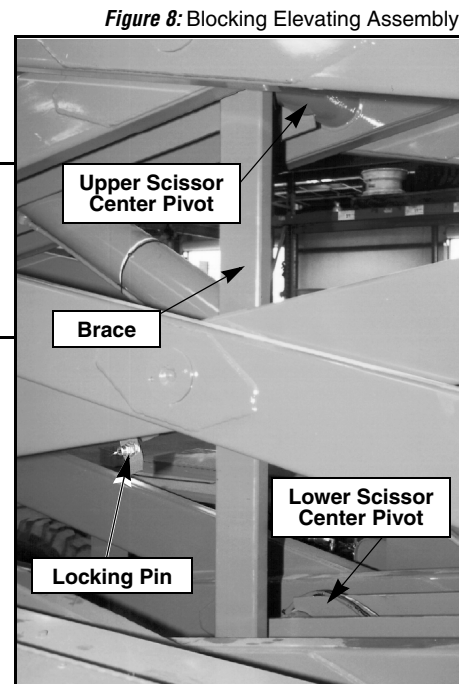
! WARNING !

Never perform service on the machine in the elevating assembly area while the platform is elevated without first blocking the elevating assembly.

DO NOT stand in elevating assembly area while deploying or storing brace.

BRACE INSTALLATION

1. Park the machine on firm, level ground.
2. Verify that the platform Emergency Stop Button is ON.
3. Turn the Platform/Chassis Switch to CHASSIS.
4. Using the Raise Button, elevate the platform until the scissor brace can be rotated to the vertical position.
5. From the left side of the machine, disengage the locking pin securing the brace. Rotate the scissor brace counterclockwise until it is vertical and between the two scissor center pivots.
6. Push the Lower Button and gradually lower the platform until the brace is supporting the platform.



BRACE REMOVAL

1. Using the chassis controls, gradually raise the platform until the scissor brace clears the two scissor center pivots.
2. Rotate the scissor brace clockwise until the locking pin engages.
3. Push the Lower Button to completely lower the platform.

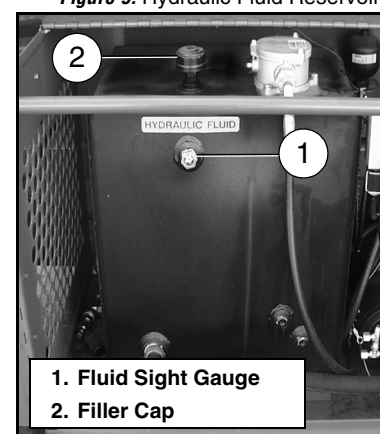
HYDRAULIC FLUID

The hydraulic fluid reservoir is located in the Power Module.

NOTE: Never add fluid if the platform is elevated.

1. Make sure that the platform is fully lowered.
2. Check fluid level by observing the fluid sight gauge
3. Remove the filler cap to fill with the appropriate fluid.

Figure 9: Hydraulic Fluid Reservoir



BATTERY MAINTENANCE

The batteries are located in the Control Module.

⚠ WARNING ⚠

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

Always wear safety glasses when working with batteries.

Battery fluid is highly corrosive. Thoroughly rinse away any spilled fluid with clean water.

Always replace batteries with UpRight batteries or manufacturer approved replacements weighing 48 kg (106 lbs.) each.

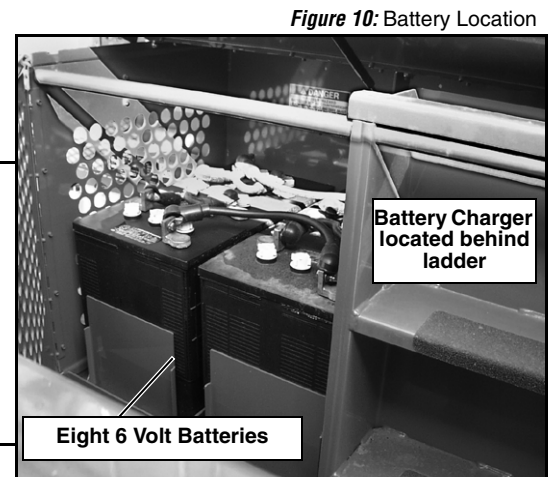
Check battery fluid level daily, especially if the machine is being used in a warm, dry climate.

If the electrolyte level is lower than 10 mm ($\frac{3}{8}$ in.) above plates, add distilled water ONLY. Do not use tap water with high mineral content; it will shorten battery life.

When night temperatures fall below 18°C (65°F), batteries charged in unheated areas should be charged as soon after use as possible. Under such conditions a four hour charge cycle once a week in the early afternoon will improve the state of charge and battery life.

The battery and cables should be inspected regularly for signs of cracks in the case, electrolyte leakage and corrosion of the terminals. Inspect the cables for worn spots or breaks in the insulation and for broken cable terminals.

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



BATTERY CHARGING

Charge the batteries at the end of each work shift or sooner if the batteries have been discharged. Discharging a deep cycle battery to less than 1.75 Volts per cell can cause permanent damage.

⚠ WARNING ⚠

Charge batteries only in a well ventilated area.

Do not charge the batteries when the machine is near a source of sparks or flames.

Permanent damage to the batteries will result if the batteries are not immediately recharged after discharging.

Never leave the battery charger operating for more than two days.

Never disconnect the cables from the batteries when the charger is operating.

Keep the charger dry.

1. Check the battery fluid level. If the battery fluid level is lower than 10 mm ($\frac{3}{8}$ in.) above the plates add distilled water only.
2. Connect an extension cord (1,5 mm² [12 gauge] minimum conductor diameter; 15 m (50 ft.) maximum length) to the charger plug located in the control module behind the ladder.
3. The charger turns on automatically after a short delay.
 - The charging current is displayed on the ammeter.
 - The charging current drops off as the batteries charge.
 - When fully charged, the ammeter shows "0" current.
4. The charger shuts off automatically.



NOTE: The battery charger circuit must be used with a GFI (Ground Fault Interrupt) outlet.

NOTE: DO NOT operate the machine while the charger is plugged in.

PREVENTATIVE MAINTENANCE SCHEDULE

The complete inspection consists of periodic visual and operational checks, along with periodic minor adjustments to assure proper performance. Daily inspection will prevent abnormal wear and prolong the life of all systems. The inspection and maintenance schedule is to be performed at regular intervals. Inspection and maintenance shall be performed by personnel who are trained and familiar with mechanical and electrical procedures.



Before performing preventative maintenance, familiarize yourself with the operation of the machine.

Always block the elevating assembly whenever it is necessary to enter the scissor assembly to perform maintenance while the platform is elevated (see page 11).

The daily preventative maintenance table has been designed for machine service and maintenance repair. Please photocopy the Daily Preventative Maintenance Check List and use the table as a checklist when inspecting the machine for service.

DAILY PREVENTATIVE MAINTENANCE CHECK LIST

MAINTENANCE TABLE KEY

Y = Yes/Acceptable

N = No/Not Acceptable

R = Repaired/Acceptable

MAINTENANCE REPORT

Date: _____

Owner: _____

Model No: _____

Serial No: _____

Serviced By: _____

COMPONENT	INSPECTION OR SERVICES	Y	N	R
Batteries	Check electrolyte level			
Chassis	Check hoses for pinch or rubbing points			
	Check welds for cracks			
Control Cable	Check the exterior of the cable for pinching, binding or wear			
Controller	Check switch operation			
Drive Motors	Check for operation			
Elevating Assembly	Inspect for structural cracks			
Emergency Lowering System	Operate the emergency lowering valve and check for serviceability			

COMPONENT	INSPECTION OR SERVICES	Y	N	R
Entire Unit	Check for and repair collision damage			
Hydraulic fluid	Check fluid level			
Hydraulic Pump	Check for hose fitting leaks			
Hydraulic System	Check for leaks			
Labels	Check for peeling, missing, or unreadable labels & replace			
Platform Deck and Rails	Check welds for cracks			
	Check condition of deck			
Tires and Wheels	Check for damage			

LABELS

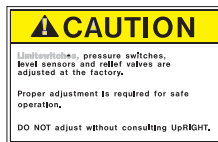
These labels shall be present and in good condition before operating the machine. Be sure to read, understand and follow these labels when operating the machine.



1 010076-001



2 066554-000



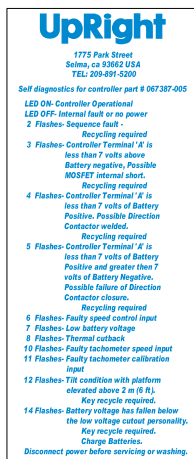
3 066555-000



4 066551-002



5 066556-000



6 067365-000



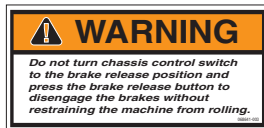
7 LX31: 101252-013
LX41: 101252-014



8 066562-001



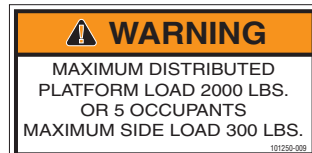
9 066556-001
Outrigger Option



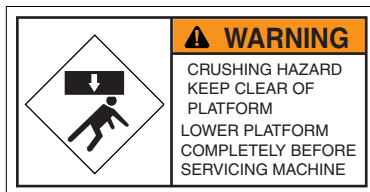
10 068641-003



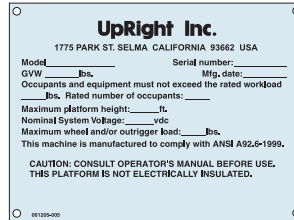
11 066552-000



12 LX31: 101250-008
LX41: 101250-009



13 066568-000



14 061205-005

EMERGENCY LOWERING
PULL OUT TO LOWER PLATFORM

15 066558-000

LIFT HERE

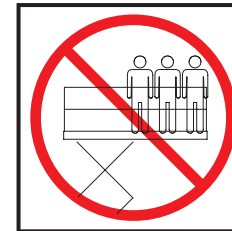
16 061515-000

POWER TO PLATFORM

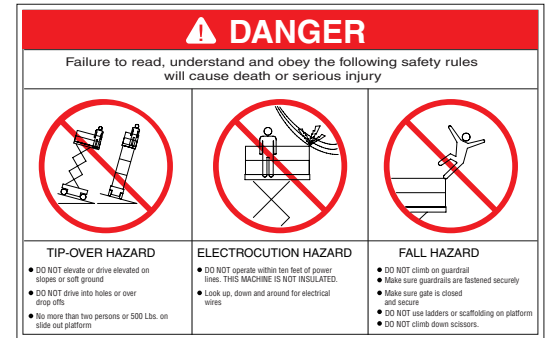
17 068639-000

MEETS OR EXCEEDS THE REQUIREMENTS OF ANSI A92.6-1999

18 061220-002



19 101251-001



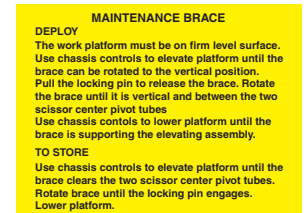
20 066550-009



21 066551-003



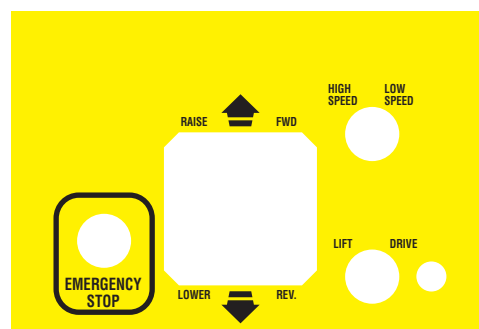
22 062562-002



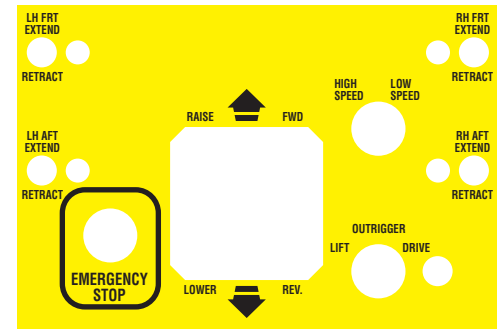
23 066561-001

HYDRAULIC FLUID

24 061197-000

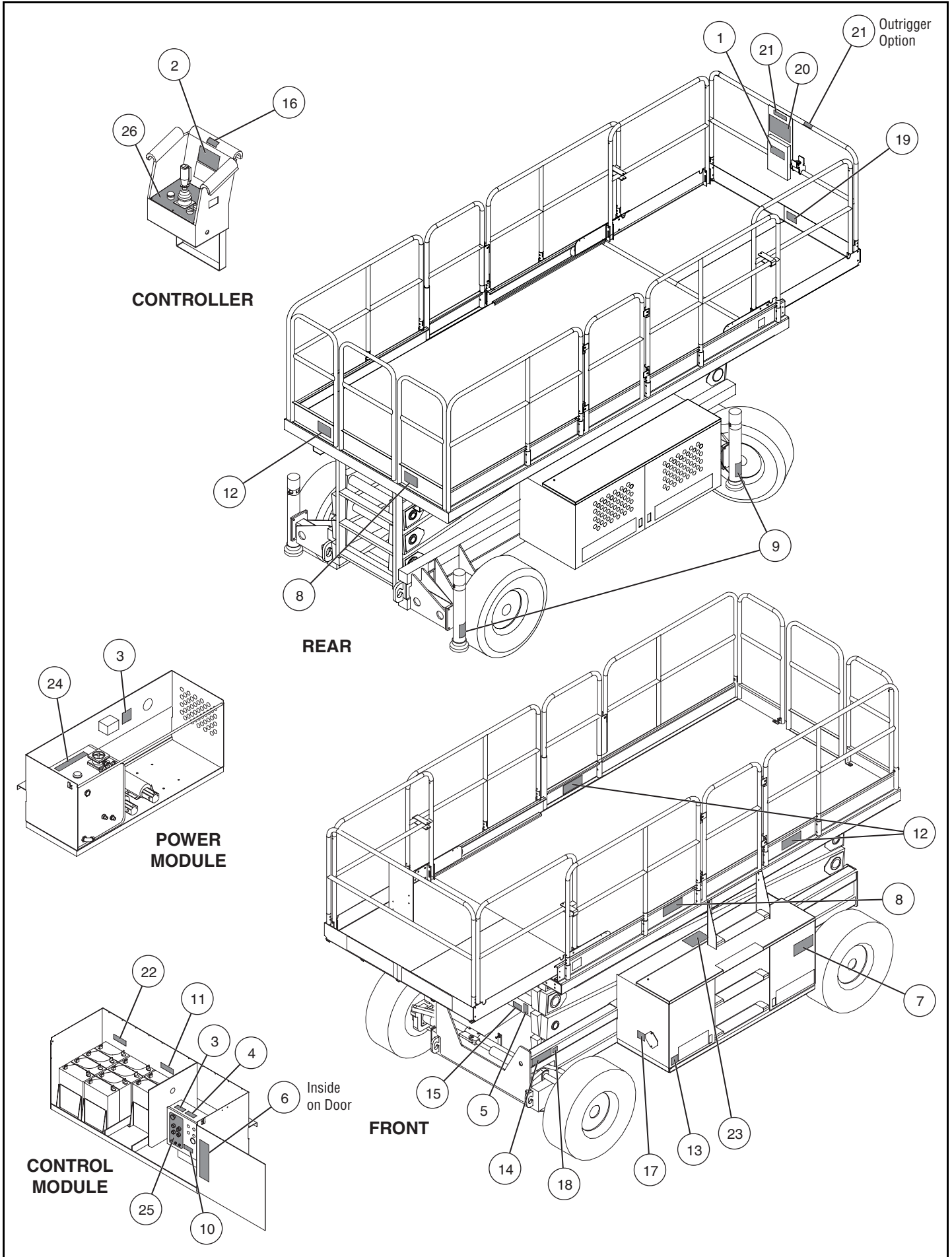


25 067369-001



26 067642-010 Outrigger Option

Figure 11: Safety Labels Locations



SPECIFICATIONS

Refer to the Service Manual for service and repair information. Refer to the Parts Manual for illustrated parts breakdown.

ITEM	LX31	LX41
Platform Size (Inside toeboards)		
Standard	3,96 m x 1,73 m [156 in x 68 in.]	3,96 m x 1,73 m [156 in x 68 in.]
Slide-out Deck Extended	4,83 m x 1,73 [190 in. x 68 in.]	4,83 m x 1,73 [190 in. x 68 in.]
GVW (machine + Rated Load)		
Standard	5493 kg [12,110 lbs.]	5978 kg [13,180 lbs.]
Rear Deck Option	5711 kg [12,590 lbs.]	6196 kg [13,660 lbs.]
Maximum Wheel Load	1769 kg [3,900 lbs.]	1905 kg [4,200 lbs.]
Max. Platform Capacity		
Standard	907 kg [2,000 lbs.]	680 kg [1,500 lbs.]
Rear Deck Option	794 kg [1750 lbs.]	567 kg [1,250 lbs.]
On Extension (one end only)	227 kg [500 lbs.]	227 kg [500 lbs.]
Max. No. of occupants		
Standard	5 people	5 people
Rear Deck Option	5 people	4 people
Height		
Working Height	11,28 m [37 ft.]	14,17 m [46 ft. 6 in.]
Max. Platform Height	9,45 m [31 ft.]	12,34 m [40 ft. 6 in.]
Min. Platform Height	1,43 m [56.3 in.]	1,66 m [65.3 in.]
Drivable Height	9,45 m [31 ft.]	12,34 m [40 ft. 6 in.]
Dimensions		
Weight, Standard	4586 kg [10,110 lbs.]	5298 kg [11,680 lbs.]
Weight, Rear Deck Option	4917 kg [10,840 lbs.]	5629 kg [12,410 lbs.]
Overall Width	2,29 m [90 in.]	2,29 m [90 in.]
Overall Height, guardrails up	2,53 m [99.8 in.]	2,76 m [109 in.]
Overall Height, guardrails lowered	1,64 m [64.5 in.]	1,87 m [73.5 in.]
Overall Length, deck in	4,02 m [160 in.]	4,02 m [160 in.]
Overall Length, deck extended	4,89 m [192 in.]	4,89 m [192 in.]
Surface Speed		
Platform Lowered	0 to 5,0 km/h [0 to 3.1 mph]	0 to 5,0 km/h [0 to 3.1 mph]
Platform Raised	0 to 0,48 km/h [0 to 0.5 mph]	0 to 0,48 km/h [0 to 0.5 mph]
System Voltage	48 Volt DC	48 Volt DC
Hydraulic Reservoir Capacity	107 liters [28.3 US Gallons]	107 liters [28.3 US Gallons]
Maximum Hydraulic System Pressure	207 bar [3000 psi]	207 bar [3000 psi]
Hydraulic Fluid		
Normal Temperature: above 0° C [32° F]	ISO #46	ISO #46
Low Temperature: below 0° C [32° F]	ISO #32	ISO #32
Extreme Temperature: below -17° C [0° F]	ISO #15	ISO #15
Lift System	One Single Stage Lift Cylinder	One Single Stage Lift Cylinder
Lift Speed	Raise: 50 sec. Lower: 52 sec.	Raise: 57 sec. Lower: 60 sec.
Power Source	Eight 6V 350 Ah Batteries	Eight 6V 350 Ah Batteries
Drive Control	Proportional	Proportional
Control System	Smooth one-hand Controller	Smooth one-hand Controller
Horizontal Drive	Two Electric Wheel Motors	Two Electric Wheel Motors
Tires Standard	10-16.5 NHS 8 Ply, 5.2 bar [75 psi]	10-16.5 NHS 8 Ply, 5.2 bar [75 psi]
Option	Poly Filled	Poly Filled
Parking Brakes	Dual Disc, Spring Applied, Hydraulic Release	Dual Disc, Spring Applied, Hydraulic Release
Turning Radius (inside)	1,22 m [48 in.]	1,22 m [48 in.]
Maximum Gradeability	17° [30%]	17° [30%]
Wheel Base	2,9 m [114.5 in.]	2,9 m [114.5 in.]
Ground Clearance	0,24 m [9.5 in.]	0,24 m [9.5 in.]
Guardrails	1.1 m [43.5 in.] high, Fold Down with gate.	1.1 m [43.5 in.] high, Fold Down with gate.
Toe Boards	15,24 m [6 in.]	15,24 m [6 in.]

Specifications subject to change without notice.

Hot weather or heavy use may reduce performance.

Meets or exceeds all applicable requirements of OSHA and ANSI A92.6-1999.

UpRight

Call Toll Free in U.S.A.
1-800-926-LIFT



USA

TEL: (1) 800-926-5438 or (1) 559-662-3900

FAX: (1) 559-673-6184

Parts FAX: (1) 800-669-9884

801 South Pine Street
Madera, California 93637

<http://www.upright.com>

EUROPE

TEL: +353 1 620 9300

FAX: +353 1 620 9301

Unit S1, Park West Industrial Park
Friel Avenue
Nangor Road
Dublin 12, Ireland

LOCAL DISTRIBUTOR:

P/N 067449-002

10-02