

Operator Manual

LX Electric & Bi-Energy

SERIAL NO. 3300 TO CURRENT

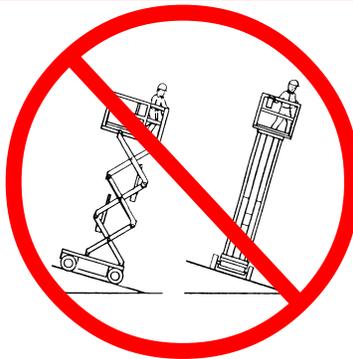
WARNING

All personnel shall carefully read, understand and follow all safety rules, operating instructions and the Scaffold Industry Association's MANUAL OF RESPONSIBILITIES (ANSI A92.6) before operating or performing maintenance on any UpRight aerial work platform.

SAFETY RULES



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



NEVER elevate or drive elevated on uneven slopes or soft ground or elevate the platform unless the platform is level.



NEVER sit, stand or climb on guardrail or midrail.

NEVER operate the machine without first surveying the work area for surface hazards such as holes, drop-offs, bumps and debris.

NEVER operate the machine if all guardrails are not properly in place and secured with all fasteners properly torqued.

SECURE and lock gate after mounting platform.

KEEP all body parts clear of outriggers when extending or retracting (outrigger equipped machines only).

NEVER use ladders or scaffolding on the platform.

NEVER attach overhanging loads or increase platform size.

MAINTAIN tire pressure at 50 psi. Check daily.

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

DISTRIBUTE all loads evenly on the platform. See the back cover for maximum platform load.

NEVER use damaged equipment. (Contact UpRight for instructions. See toll-free phone number on back cover.)

NEVER change operating or safety systems.

INSPECT the machine thoroughly for cracked welds, loose hardware, hydraulic leaks, damaged control cable, loose wire connections and wheel bolts.

NEVER climb down elevating assembly with the platform elevated.

NEVER perform service on machine while platform is elevated without blocking elevating assembly.

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 chassis key switch off and removing key.

NEVER replace any component or part with anything other than original UpRight replacement parts without the manufacturer's written consent. **California Proposition 65 Warning**

Gasoline and diesel engine exhaust and some of their constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Introduction

This manual covers Electric and Bi-Energy models of the LX Series Work Platforms. Both machines operate on a 48 volt battery powered system. The Bi-Energy machine uses a diesel powered engine to charge the batteries. Manual for engine on BiEnergy machine is stored with thioperators manual. **These manuals must be stored on the machine at all times.**

Pre-Operation and Safety Inspection

Carefully read, understand and follow all safety rules, labels, and operating instructions, then perform the following steps each day before use.

Perform a complete visual inspection of the entire unit prior to operating.

1. Open panels and check hydraulic components and hoses for damage or leaks. Check electrical components and wiring for damage or loose connections.
2. Inspect chassis, axles, hubs, and steering linkage for damage, deformation, buckeled paint, loose or missing hardware, and cracked welds.
3. With platform fully lowered, check the hydraulic oil level sight gauge on the hydraulic tank . Add ISO #46 hydraulic oil if necessary.
4. Check that fluid level in all batteries is correct (See Battery Maintenance, Page 8).
5. Check the engine oil level and fuel level (Bi-Energy model).
6. Check that all guardrails are in place. Insure that gate operates freely and latches securely.
7. Check tires for damage. Check tire pressure; 75 psi (5.2 bar) if equipped with pneumatic tires.
8. Carefully inspect the entire work platform for damage such as cracked welds or structural members, loose or missing parts, oil leaks, damaged cables or hoses, and loose connections.
9. Bi-Energy models - While the engine is cool check the engine coolant level.

WARNING

NEVER remove the cap from a hot radiator. Hot coolant can cause severe burns.

WARNING

DO NOT use a machine that is damaged or malfunctioning. Tag and remove the unit from service until it is repaired.

System Function Inspection

WARNING

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

Before operating the work platform 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. Unhook controller from guardrail. Firmly grasp controller handle in such a manner that the interlock lever can be depressed, while performing the following checks from the ground.

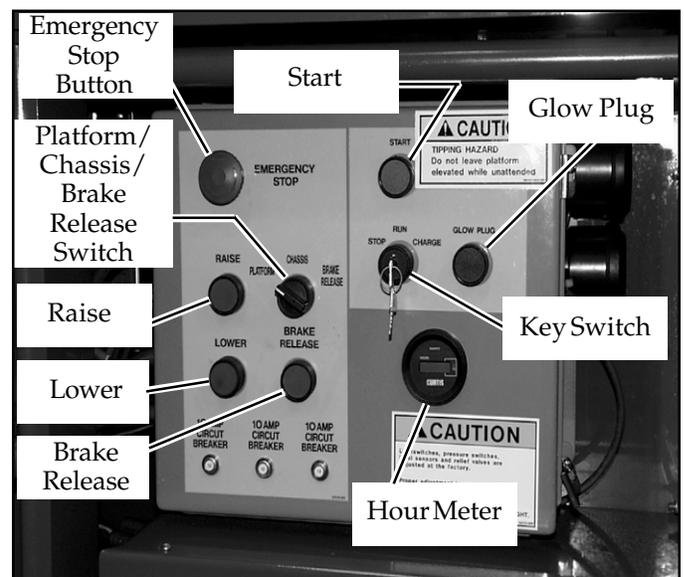


Figure 1: Chassis control panel. Bi-Energy controls shown, Electric model does not include glow plug button or start button.

NOTE: Bi-Energy machine may be powered by batteries or by engine. To power the machine by engine, turn platform or chassis key on, press engine start button to crank the engine. Release button when engine starts. If engine is cold, press the glow plug button for six seconds prior to starting.

IMPORTANT: Bi-Energy models - If starting engine from platform be sure engine switch on chassis control panel is set to "RUN".

2. Turn platform controller key switch clockwise to **ON**.
3. Position drive/lift switch to **DRIVE** position. Drive enable indicator light will be illuminated.
4. With the speed range switch first in **LOW SPEED** and then again in **HIGH SPEED** depress the interlock lever and slowly push the control lever to **FORWARD** then **REVERSE** positions to check for speed and directional control. The farther you push or pull the control lever the faster the machine will travel.
5. Push steering switch **RIGHT** then **LEFT** to check for steering control.
6. Hook controller on guardrail in original position.
7. On chassis controls, turn key switch to **CHASSIS**.
8. From lower controls, push chassis raise button to elevate platform while pushing the tilt sensor (Figure 3) 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.
9. Release the tilt sensor and fully elevate platform.

10. Visually inspect the elevating assembly, lift cylinder, cables and hoses for damage or erratic operation. Check for missing or loose parts.
11. Lower the platform partially by pushing in on the chassis lower switch, and check operation of the audible lowering alarm.
12. Open the chassis emergency lowering valve (Figure 4) to check for proper operation by pulling and holding the knob out. Once the platform is fully lowered, close the valve by releasing the knob.
13. On chassis controls, turn key switch to **PLATFORM**.
14. Mount the platform making sure the gate is latched.
15. Turn platform controller key switch clockwise to **ON**. Position drive/lift switch to **LIFT**.
16. Depress the interlock lever and slowly push the control lever to **RAISE** to raise the platform, fully actuate the control lever to check proportional lift speed. Elevate the platform to 12 feet (3.7 m).
17. Slowly pull control lever to **DOWN** position to lower platform. Check that lowering alarm sounds.
18. Turn platform controller key switch to **OFF**, push the emergency stop button and dismount the platform.
19. Close and secure module covers.

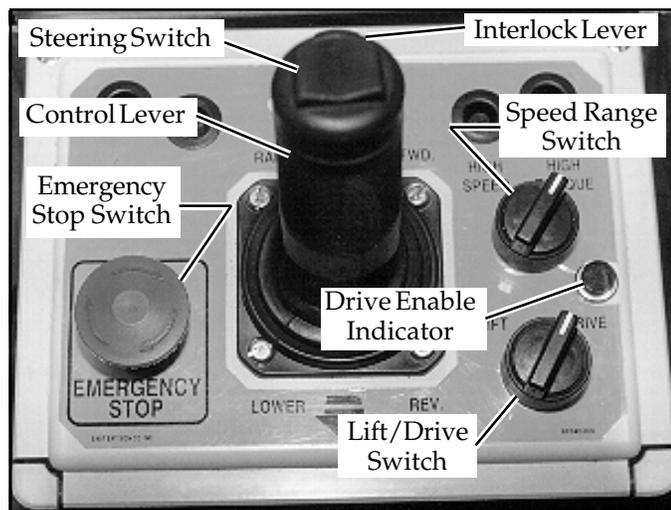


Figure 2: Controller

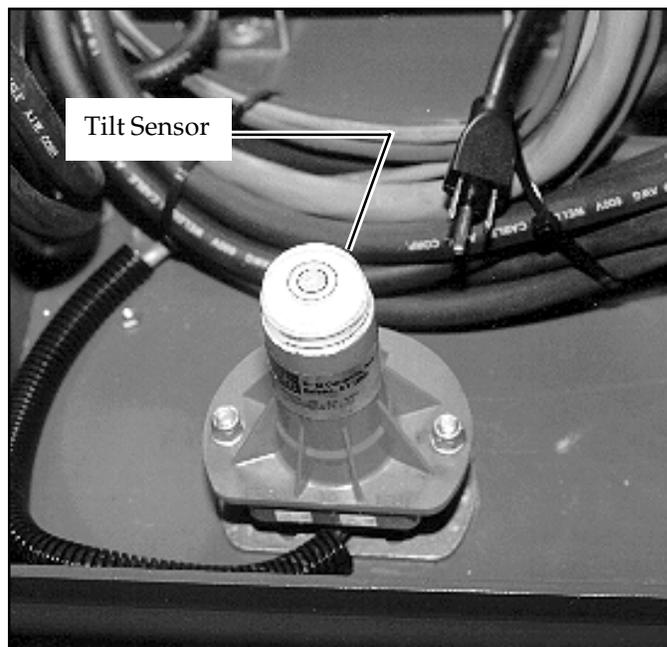


Figure 3: Tilt Sensor

Operation

Before operating work platform, 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.

NOTE: Bi-Energy machine may be powered by batteries or by engine. To power the machine by engine, press engine start button to crank the engine. Release button when engine starts. If engine is cold, press the glow plug button on chassis control box for six seconds prior to starting.

IMPORTANT: If starting engine from platform be sure engine switch on chassis is set to "RUN".

Travel With Platform Lowered

1. Verify chassis emergency stop switch is in the ON position (pulled out), the drive enable indicator light is on, and that the platform/chassis switch is on **PLATFORM**.

Note: If the drive enable indicator light is off, verify that the platform is fully lowered.

2. After mounting platform, close and latch gate. Check that guardrails are in position and properly assembled with fasteners properly torqued.
3. Check that route is clear of persons, obstructions, holes and drop-offs and surface is capable of supporting the wheel loads.
4. Check clearances above, below and to the sides of the platform.
5. Pull controller emergency stop button out to ON position.
6. Set the drive/lift speed range switch to **LOW SPEED**.

7. Grasp the control lever so the interlock lever is depressed (releasing the interlock lever cuts power to controller). Slowly push or pull the control lever to **FORWARD** or **REVERSE** to travel in the desired direction. The farther you push or pull the control lever from center the faster the machine will travel.
8. While moving, push the drive/lift speed range switch to **HIGH SPEED** for travel on level surfaces or to **LOW SPEED** for climbing grades or traveling in confined areas.

Steering

1. 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

1. Position the drive/lift switch to **LIFT**.
2. While holding the control lever so the interlock lever is depressed, push the control lever slowly to **UP** to raise the platform. Pushing the control lever farther increases the lift speed.
3. Lower the platform by pulling back on the control lever until the platform is fully lowered.

Travel with Work Platform Elevated

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

Note: The work platform will travel at reduced speed when in the elevated position, and only when the front axle is parallel with the rear axle.

1. Check that the route is clear of persons, obstructions, holes and drop-offs, surface is level and capable of supporting the wheel loads.
2. Check clearances above, below and to the sides of platform.
3. Position the drive/lift switch to the **DRIVE** position.
4. Push the control lever to **FORWARD** or **REVERSE** for the desired direction of travel.

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.

Emergency Lowering

The emergency lowering knob is located at the front of the machine at the base of the scissor assembly (Figure 4).

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.

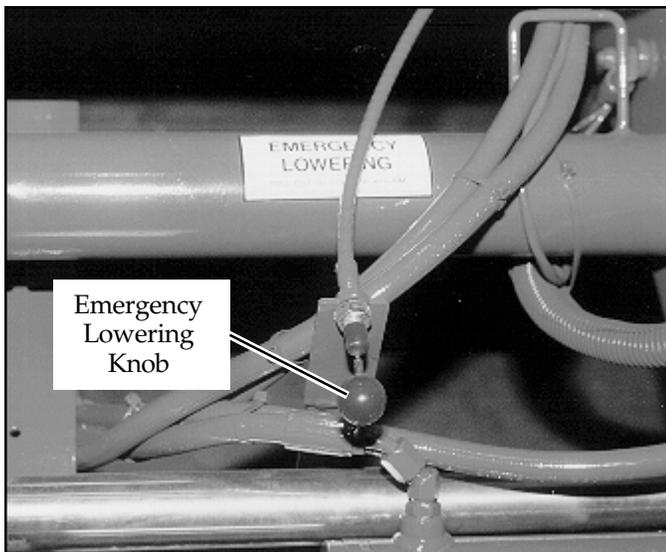


Figure 4: Emergency Lowering Knob

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.

Parking Brake Release (Figure 5)

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 trailer to transport.

⚠ WARNING ⚠

Never release brakes if machine is on a slope. Hook machine to towing vehicle before releasing brakes.

1. Turn Platform/Chassis/Brake Release switch to Brake Release position. Alarm will sound.
2. Momentarily push brake Release button.
3. The machine will now roll when pushed or pulled.
4. For normal operation, turn Platform/Chassis/Brake Release switch to Platform position.

⚠ WARNING ⚠

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



Figure 5: Parking Brake Release Button

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 (Figure 6)

Note: When performing the following procedures retain all fasteners.

1. Place controller on platform.
2. Starting at the front of the platform, remove nuts, bolts and washers from the top of the front guardrail. Fold the front guardrail down onto the platform.
3. Close and latch the gate.
4. Remove nuts, bolts and washers from the top of the rear guardrail. Fold the rear guardrail down onto the platform being careful to keep gate latched at all times.
5. Remove nuts, bolts and washers from the top of the side guardrails and from the slideout deck midrail. Lift up and fold one side guardrail in so it rests on the deck. Repeat with other side guardrails.

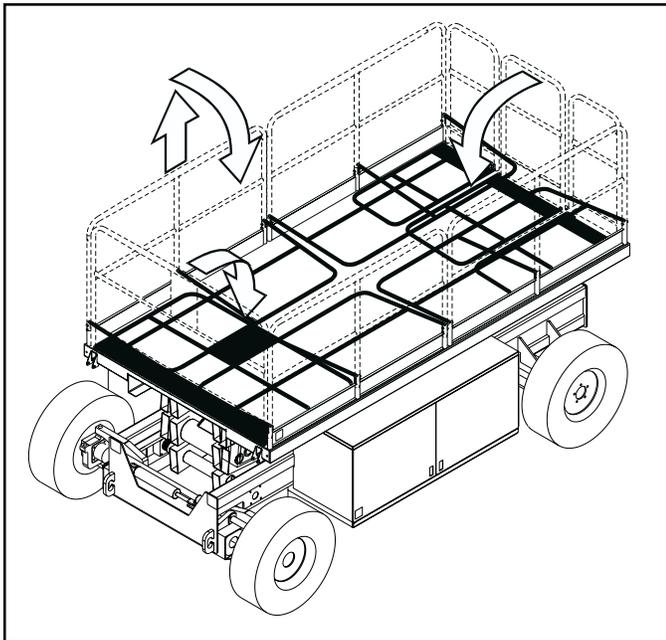


Figure 6: Fold Down Guardrails

Erection Procedure

IMPORTANT: After guardrails have been completely assembled, torque all hardware to values specified in torque chart on page 10.

1. Raise side guardrails making sure each is pushed down to secure the guardrail in the vertical position.
2. Install bolts, washers and nuts between the side guardrails.
3. Raise rear guardrail assembly, aligning holes and install bolts, washers and nuts.
4. Raise front guardrail, aligning holes and install bolts, washers and nuts.
5. Hang controller on front guardrail.
6. Before operating work platform check that all fasteners are in place and properly torqued.



WARNING



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

Double Deck Fold Down Procedure (Figure 7)

NOTE: When performing the following procedures retain all fasteners.

1. Place controller on platform.
2. Starting at the front ; slide out deck, remove hardware from top front corners of guardrails. Remove hardware from the slide out deck side guardrail midrails. Also remove hardware from the top of the sockets that hold the slide out deck side guardrails to the deck. Fold the side guardrails down onto the platform.
3. Follow step 2 to fold the front side guardrails on the rear slide out deck.
4. Unlatch the gate so the left side guardrails can be folded down in two separate pieces. Also remove the hardware opposite the gate latch on the right side guardrail so it can be separated into two pieces.
5. Lift up and fold side guardrails in so they rest on the deck.
6. Lift up and fold front guardrail in so it rests on the deck. Repeat for rear guardrail.

Double Deck Erection Procedure

IMPORTANT: After guardrails have been completely assembled, torque all hardware to values specified in torque chart on page 10.

1. Raise front guardrail making sure it is pushed down to secure the guardrail in the vertical position. Repeat for rear guardrail.
2. Raise guardrails making sure each is pushed down to secure the guardrail in the vertical position. Align holes and install hardware.
3. Raise one of the four slide out deck side guardrail assemblies. Align holes and install hardware. Repeat this procedure for the other three slide out deck side guardrails.
4. Hang controller on front guardrail.
5. Before operating work platform, check that all fasteners are in place and properly torqued.

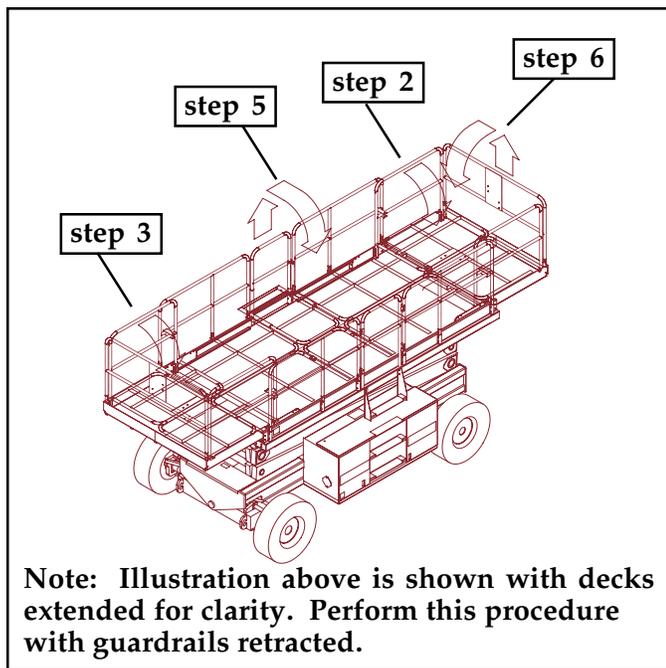


Figure 7: Fold Down Guardrails (Double Deck)

Transporting Work Platform

By Crane

1. Secure straps to chassis tie down/lifting lugs only (Figure 8).

By Truck

1. Maneuver the work platform into transport position and chock wheels.
2. Secure the work platform to the transport vehicle with chains or straps of adequate load capacity attached to the chassis tie down/lifting lugs (Figure 8).

CAUTION

Overtightening of chains or straps through tie down lugs may result in damage to work platform.

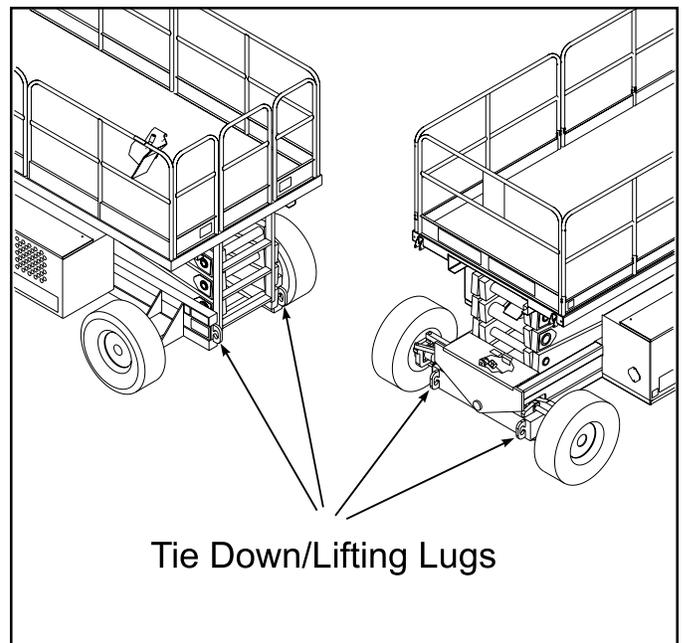


Figure 8: Transporting Work Platform

Maintenance

⚠️ WARNING ⚠️

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

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

Blocking Elevating Assembly (Figure 9)

Installation

1. Park the work platform on firm level ground.
2. Verify platform emergency stop switch is ON.
3. Turn platform/chassis switch to **CHASSIS**.
4. Elevate platform far enough to allow brace to be lowered.
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. Slowly lower platform until brace is supporting the platform.

Removal

1. Using chassis controls, raise platform until the scissors brace clears the two scissor center pivots.
2. Rotate scissors brace clockwise until the locking pin engages. Verify locking pin is engaged.
3. Lower platform completely.

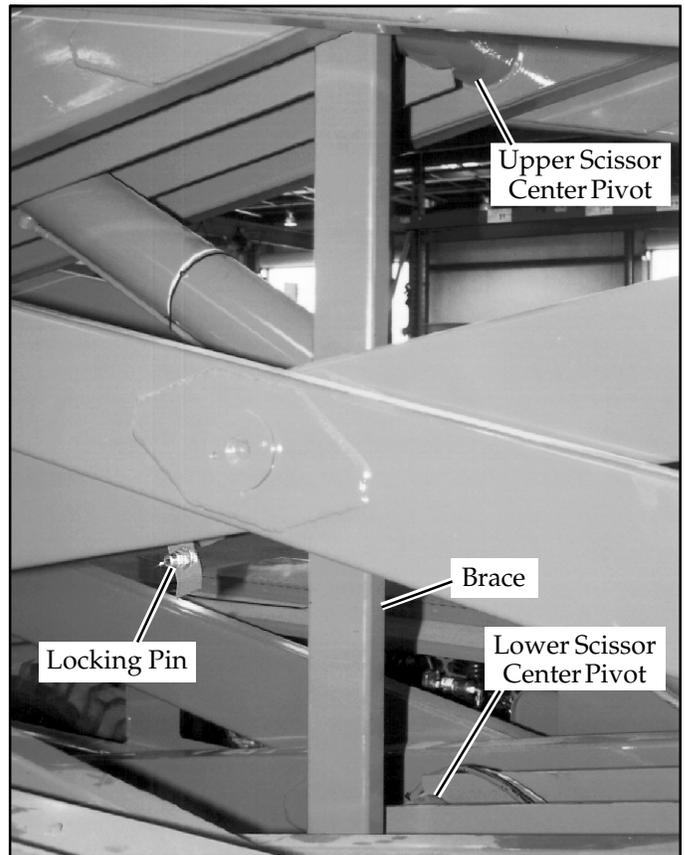


Figure 9: Blocking Elevating Assembly

Battery Maintenance

⚠️ WARNING ⚠️

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

Always wear safety glasses when working with batteries.

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

Always replace batteries with UpRight batteries or manufacturer approved replacements weighing 120 lbs. (54.4 kg.) each.

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

If electrolyte level is lower than 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.

Routine Service

Use the following table as a guide for routine maintenance. **Inspection and maintenance shall be performed by personnel who are trained and familiar with mechanical and electrical procedures.** Refer to the Service Manual for complete service instructions.

Please copy this page and use the Routine Service Table as a checklist when inspecting a machine for service.

Routine Service Table Key

Interval

Daily=each shift (every day) or every eight hours
 30d=every month (30 days) or every 50 hours
 3m=every 3 months or 125 hours
 6m=every 6 months or 250 hours
 1y=every year or 500 hours
 2y=every 2 years or 1000 hours

Y=Yes/ Acceptable

N=No/Not Acceptable

R=Repaired/ Acceptable

Routine Service Table

| COMPONENT | INSPECTION OR SERVICES | INTERVAL | Y | N | R |
|----------------------------|--|-----------|---|---|---|
| Engine Oil | Check level and condition | Daily | | | |
| BiEnergy Models | Check for leaks | Daily | | | |
| | Change oil & filter | 100 HOURS | | | |
| Engine Fuel System | Check fuel level | Daily | | | |
| | Check for leaks | Daily | | | |
| BiEnergy Models | Replace fuel filter | 100 HOURS | | | |
| | Check air cleaner | Daily | | | |
| Main Battery Pack | Check electrolyte level | Daily | | | |
| | Check specific gravity | 30D | | | |
| | Clean exterior | 6M | | | |
| | Check battery cable condition | Daily | | | |
| | Clean terminals | 6M | | | |
| Engine Battery System | Check electrolyte level | Daily | | | |
| | Check specific gravity | 30D | | | |
| | Clean exterior | 6M | | | |
| BiEnergy Models | Check battery cable condition | Daily | | | |
| | Clean terminals | 6M | | | |
| Engine Coolant | Check coolant level (with engine cold) | Daily | | | |
| | Replace coolant | 2y | | | |
| Hydraulic Oil | Check oil level | Daily | | | |
| | Change filter | 6M | | | |
| | Drain and replace oil | 2y | | | |
| Hydraulic System | Check for leaks | Daily | | | |
| | Check hose connections | 30D | | | |
| | Check hoses for exterior wear | 30D | | | |
| Emergency Hydraulic System | Open the emergency lowering valve and check for serviceability | Daily | | | |
| Controller | Check switch operation | Daily | | | |
| Control Cable | Check the exterior of the cable for pinching, binding or wear | Daily | | | |
| Platform Deck and Rails | Check fasteners for proper torque | Daily | | | |
| | Check welds for cracks | Daily | | | |
| | Check condition of deck | Daily | | | |
| Tires | Check for damage | Daily | | | |
| | Check air pressure (75psi [5.2 bar]) | Daily | | | |
| | Check lug nuts (torque to 150 ft. lbs. [205 Nm]) | 30D | | | |
| Hydraulic Pump | Wipe clean | 30D | | | |
| | Check for leaks at mating surfaces | 30D | | | |
| | Check for hose fitting leaks | Daily | | | |
| | Check mounting bolts for proper torque | 30D | | | |
| Drive Motors | Check for operation and leaks | Daily | | | |
| Steering System | Check hardware & fittings for proper torque | 6M | | | |
| | Oil all pivot points | 30D | | | |
| | Check steering cylinder for leaks & mounting bolts for proper torque | 30D | | | |

| COMPONENT | INSPECTION OR SERVICES | INTERVAL | Y | N | R |
|--------------------|--|----------|---|---|---|
| Elevating Assembly | Inspect for structural cracks | Daily | | | |
| | Check pivot points for wear | 30D | | | |
| | Check pivot pin mounting bolts for proper torque | 30D | | | |
| | Check scissor arms for bending | 6M | | | |
| | Grease scissor pins | 30D | | | |
| Chassis | Check hoses for pinch or rubbing points | Daily | | | |
| | Check component mounting for proper torque | 6M | | | |
| | Check welds for cracks | Daily | | | |
| Lift Cylinder | Check the cylinder rod for wear | 30D | | | |
| | Check pivot pin mounting bolts for proper torque | 30D | | | |
| | Check seals for leaks | 30D | | | |
| | Inspect pivot points for wear | 30D | | | |
| | Check fittings for proper torque | 30D | | | |
| Axle Cylinder | Check the cylinder rod for wear | 30D | | | |
| | Check mounting pin pivot bolts for proper torque | 30D | | | |
| | Check seals for leaks | 30D | | | |
| | Inspect pivot points for wear | 30D | | | |
| | Check fittings for proper torque | 30D | | | |
| Entire Unit | Check for and repair collision damage | Daily | | | |
| | Check fasteners for proper torque | 3M | | | |
| | Check for corrosion-remove and repaint | 6M | | | |
| | Lubricate | 30D | | | |
| Labels | Check for peeling, missing, or unreadable labels & replace | Daily | | | |

Service Report

| |
|----------------------------------|
| Date: _____ |
| Owner: _____ |
| Model No: _____ Serial No: _____ |
| Serviced By: _____ |
| Service Interval: _____ |

NOTES:

GENERAL TORQUE SPECIFICATIONS

Use the following torques unless special torques are given

| AMERICAN STANDARD CAP SCREWS | | | | | | | | METRIC CAP SCREWS | | | | | | | | | | | |
|------------------------------|---|------|------|------|---|-----|------|-------------------|-------------------------------|---|------|---|------|---|------|---|------|--|--|
| SAE GRADE | | 5 | | | | 8 | | | | METRIC GRADE | | 8.8 | | | | 10.9 | | | |
| CAP SCREW SIZE INCHES |  | | | |  | | | | CAP SCREW SIZE MILLIMETERS |  | |  | |  | |  | | | |
| | TORQUE | | | | TORQUE | | | | | TORQUE | | | | TORQUE | | | | | |
| | FT.-LBS. | | Nm | | FT.-LBS. | | Nm | | | FT.-LBS. | | Nm | | FT.-LBS. | | Nm | | | |
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | | |
| 1/4 - 20 | 6.25 | 7.25 | 8.5 | 10 | 8.25 | 9.5 | 11 | 13 | M6 x 1.00 | 6 | 8 | 8 | 11 | 9 | 11 | 9 | 15 | | |
| 1/4 - 28 | 8 | 9 | 11 | 12 | 10.5 | 12 | 14 | 16 | M8 x 1.25 | 16 | 20 | 21.5 | 27 | 23 | 27 | 31 | 36.5 | | |
| 5/16 - 18 | 14 | 15 | 19 | 20 | 18.5 | 20 | 25 | 27 | M10 x 1.50 | 29 | 35 | 39 | 47 | 42 | 52 | 57 | 70 | | |
| 6/16 - 24 | 17.5 | 19 | 23 | 26 | 23 | 25 | 31 | 34 | M12 x 1.75 | 52 | 62 | 70 | 84 | 75 | 91 | 102 | 123 | | |
| 3/8 - 16 | 26 | 28 | 35 | 38 | 35 | 37 | 47.5 | 50 | M14 x 2.00 | 85 | 103 | 115 | 139 | 120 | 146 | 163 | 196 | | |
| 3/8 - 24 | 31 | 34 | 42 | 46 | 41 | 45 | 55.5 | 61 | M16 x 2.50 | 130 | 158 | 176 | 214 | 176 | 216 | 238 | 293 | | |
| 7/16 - 14 | 41 | 45 | 55.5 | 61 | 55 | 60 | 74.5 | 81 | M18 x 2.50 | 172 | 210 | 233 | 284 | 240 | 294 | 325 | 398 | | |
| 7/16 - 20 | 51 | 55 | 69 | 74.5 | 68 | 75 | 92 | 102 | M20 x 2.50 | 247 | 301 | 435 | 408 | 343 | 426 | 465 | 577 | | |
| 1/2 - 13 | 65 | 72 | 88 | 97.5 | 86 | 96 | 116 | 130 | M22 x 2.50 | 332 | 404 | 450 | 547 | 472 | 576 | 639 | 780 | | |
| 1/2 - 20 | 76 | 84 | 103 | 114 | 102 | 76 | 76 | 76 | M24 x 3.00 | 423 | 517 | 573 | 700 | 599 | 732 | 812 | 992 | | |
| 9/16 - 12 | 95 | 105 | 129 | 142 | 127 | 140 | 172 | 190 | M27 x 3.00 | 637 | 779 | 863 | 1055 | 898 | 1098 | 1217 | 1488 | | |
| 9/16 - 18 | 111 | 123 | 150 | 167 | 148 | 164 | 200 | 222 | M30 x 3.00 | 872 | 1066 | 1181 | 1444 | 1496 | 1658 | 1658 | 2027 | | |
| 5/8 - 11 | 126 | 139 | 171 | 188 | 168 | 185 | 228 | 251 | | | | | | | | | | | |
| 5/8 - 18 | 152 | 168 | 206 | 228 | 203 | 224 | 275 | 304 | | | | | | | | | | | |
| 3/4 - 10 | 238 | 262 | 322 | 355 | 318 | 350 | 431 | 474 | | | | | | | | | | | |
| 3/4 - 16 | 274 | 302 | 371 | 409 | 365 | 402 | 495 | 544 | | | | | | | | | | | |
| 7/8 - 9 | 350 | 386 | 474 | 523 | 466 | 515 | 631 | 698 | | | | | | | | | | | |
| 7/8 - 14 | 407 | 448 | 551 | 607 | 543 | 597 | 736 | 809 | | | | | | | | | | | |
| 1 - 8 | 537 | 592 | 728 | 802 | 716 | 709 | 970 | 1070 | | | | | | | | | | | |
| 1 - 14 | 670 | 740 | 908 | 1003 | 894 | 987 | 1211 | 1337 | | | | | | | | | | | |

NOTE: These values apply to fasteners as received from the supplier, dry or when lubricated with normal engine oil. They do not apply if special graphited or moyldisulphide greases or other extreme pressure lubricants are used.

Note: Labels can be ordered by using Part Number located by each label. For machines equipped with options consult Service Manual.

66554-000-00
1-REQUIRED

CAUTION
BEFORE operating this equipment read and then follow all safety information in instruction manual.

66551-003
1-REQUIRED

DANGER
TIPPING HAZARD
Load capacity is limited. Do not exceed rated capacity.

66550-009
1-REQUIRED

ATTENTION
Safety Rules & Operating Instructions Enclosed

WARNING
TIPPING HAZARD
Check tire pressure daily. Pressure must be maintained at GP 2.5L.

10076-001
1-REQUIRED

WARNING
Maximum Distributed Platform Load 2000 lbs or 5 occupants
Maximum side load 300 lbs

66562-001
1-REQUIRED

WARNING
Maximum Distributed Platform Load 1500 lbs or 5 occupants
Maximum side load 250 lbs

66557-010
2-REQ. LX31 ONLY

WARNING
Maximum Wheel And/Or Outrigger Load 3900 lbs.

66561-001
1-REQUIRED

101252-013
1 REQ. LX31

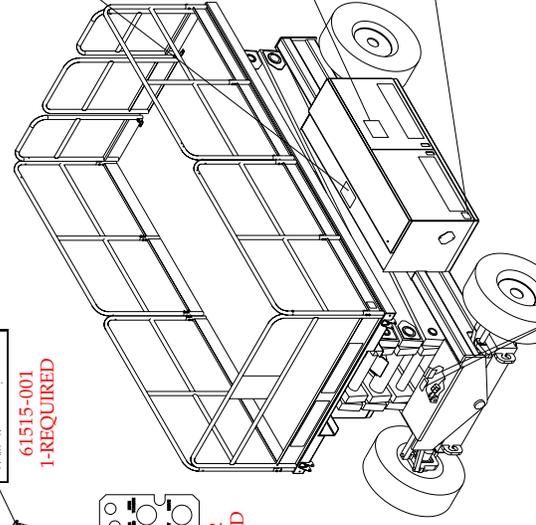
101252-014
1 REQ. LX31

WARNING
CRUSHING HAZARD
KEEP CLEAR OF LOWER PLATFORM COMPLETELY BEFORE SERVICING MACHINE

66568-000
1-REQUIRED

EMERGENCY LOWERING
PULL OUT TO LOWER PLATFORM

66558-000
2-REQUIRED



EMERGENCY LOWERING
PULL OUT TO LOWER PLATFORM COMPLETELY BEFORE SERVICING MACHINE

66558-000
2-REQUIRED

DIESEL FUEL ONLY
GRADE NO. 1-D OR NO. 2-D
DO NOT USE OTHER FUEL OR BLEND

27898-000
1-REQUIRED

BI-ENERGY MODEL ONLY

WARNING
Explosive gas is produced during charging of batteries. DO NOT inhale or ignite sparks or flames.

62562-002
1-REQUIRED

CAUTION
TIPPING HAZARD
Do not use platform extended while unattended

66552-000
1-REQUIRED

CAUTION
TIPPING HAZARD
Do not use platform extended while unattended

66551-002
1-REQUIRED

CAUTION
Limit engine, pressure switches, and relief valves are adjusted at the factory. Proper adjustment is required

66555-000
1-REQUIRED

EMERGENCY LOWERING
PULL OUT TO LOWER PLATFORM COMPLETELY BEFORE SERVICING MACHINE

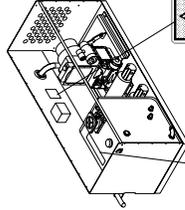
67639-001
1-REQUIRED

MEETS OR EXCEEDS THE REQUIREMENTS OF ANSI A92.6-1990

61220-001
1-REQUIRED

Upright, Inc.
MODEL NO. _____
SERIAL NO. _____
MAX. DISTRIBUTED LOAD _____
MAX. BATTERY VOLTAGE _____
THIS PLATFORM IS NOT ELECTRICALLY INSULATED

61205-000
1-REQUIRED



CAUTION
Limit engine, pressure switches, and relief valves are adjusted at the factory. Proper adjustment is required

66555-000
1-REQUIRED

HYDRAULIC FLUID
LIMITED WARRANTY

60197-000
1-REQUIRED

LX SERIES 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.

Specifications*

| ITEM | LX31 | LX41 |
|--|--|--|
| Platform Size (Inside Toeboards) Standard w/ Extension | 143.38 in. x 70 in. [3.64 m x 1.78 m] 179.38 in. x 68 in. [4.56 m x 1.73 m] | 143.38 in. x 70 in. [3.64 m x 1.78 m] 179.38 in. x 68 in. [4.56 m x 1.73 m] |
| Double Deck Models w/ Decks Retracted w/ Decks Extended | 156in. x 68 in. [3.96 m x 1.73 m] 228 in. x 68 in. [5.79 m x 1.73 m] | 156 in. x 68 in. [3.96 m x 1.73 m] 228 in. x 68 in. [5.79 m x 1.73 m] |
| Max. Platform Capacity Standard w/ Extension on Extension | 2000 lbs. [907 kg] 2000 lbs. [907 kg] 500 lbs. [227 kg] | 1,500 lbs. [680 kg] 1,500 lbs. [680 kg] 500 lbs. [227 kg] |
| Double Deck Models on Extension (one end only) | lbs [795 kg] lbs. [227 kg] | 1250 lbs [567 kg] 500 lbs. [227 kg] |
| Max. No. of occupants Standard on Extension | 8 people 2 people | 6 people 2 people |
| Double Deck Models on Extension (one end only) | 8 people 2 people | 6 people 2 people |
| Height Working Height Max. Platform Height Min. Platform Height | 37 ft. [11.28 m] 31 ft. [9.45 m] 56.3 in. [1.43 m] | 47 ft. [14.33 m] 40 ft. 6 in. [12.34 m] 65.3 in. [1.66 m] |
| Dimensions Weight, Electric BiEnergy Electric w/ Extension BiEnergy Electric DoubleDeck BiEnergy Overall Width Overall Height Overall Length, Standard | 2wd: 9,920 lbs. [4,500 kg] 2wd: 10,120 lbs. [4,590 kg] 2wd: 10,350 lbs. [4,695 kg] 2wd: 10,550 lbs. [4,785 kg] 2wd: 10,780 lbs. [4,890 kg] 2wd: 10,980 lbs. [4,981 kg] 90 in. [2.29 m] 99.75 in. [2.53 m] 160.5 in. [4.08 m] | 2wd: 11,260 lbs. [5,108 kg] 2wd: 11,460 lbs. [5,194 kg] 2wd: 11,690 lbs. [5,303 kg] 2wd: 11,890 lbs. [5,371 kg] 2wd: 12,120 lbs. [5,498 kg] 2wd: 12,318 lbs. [5,587 kg] 90 in. [2.29 m] 108.75 in. [2.76 m] 160.5 in. [4.08 m] |
| Driveable Height | 31 ft. [9.45 m] | 40 ft. 6 in. [12.34 m] |
| Surface Speed Platform Lowered Platform Raised | 0 to 3.1 mph [0 to 5.0 km/h] 0 to 0.3 mph [0 to .48 km/h] | 0 to 3.1 mph [0 to 5.0 km/h] 0 to 0.3 mph [0 to .48 km/h] |
| System Voltage | 48 Volt DC | 48 Volt DC |
| Hydraulic Tank Capacity | 28.3 Gallons [107.13 l] | 28.3 Gallons [107.13 l] |
| Maximum Hydraulic System Pressure | 3000 psi [206.8 bar] | 3000 psi [206.8 bar] |
| Hydraulic Fluid Normal Use (>32 °F [0 °C]) Low Temp. Use (-10 to 32 °F [-23 to 0 °C]) | ISO #46 ISO #32 | ISO #46 ISO #32 |
| Lift System | One Single Stage Lift Cylinder | One Single Stage Lift Cylinder |
| Lift Speed | Raise, 40 sec./Lower, 60 sec. | Raise, 50 sec./Lower, 70 sec. |
| Power Source | Eight 6V 350 AH Batteries (BiEnergy) One Kubota 12 HP Diesel | Eight 6V 350 AH Batteries (BiEnergy) One Kubota 12 HP Diesel |
| Drive Control | Proportional | Proportional |
| Control System | Smooth one hand Joystick | Smooth one hand Joystick |
| Horizontal Drive | Two Electric Wheel Motors | Two Electric Wheel Motors |
| Tires Standard Optional | 10-16.5 NHS 8 Ply, 75psi [5.2 bar] Poly Filled | 10-16.5 NHS 8 Ply, 75psi [5.2 bar] Poly Filled |
| Parking Brakes | Two, Spring Applied, Hydraulic Release, Multiple Disc | Two, Spring Applied, Hydraulic Release, Multiple Disc |
| Turning Radius (inside) | 48 in. [1.22 m] | 48 in. [1.22 m] |
| Maximum Gradeability | 2wd: 30% [16.7°] | 2wd: 30% [16.7°] |
| Wheel Base | 115.75 in. [2.94 m] | 115.75 in. [2.94 m] |
| Guardrails | 43.5 in. [1.1 m] high, Fold Down with Self Closing Gate | 43.5 in. [1.1 m] high, Fold Down with Self Closing Gate |
| Toeboard | 6 in. [152 mm] High | 6 in. [152 mm] High |

* Specifications subject to change without notice.

Hot weather or heavy use may reduce performance.

Refer to Service Manual for complete parts and service information.

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

FOR MORE INFORMATION

UpRight

Local Distributor:

TEL: (800) 926-5438 or (559) 891-5200

FAX: (559) 896-9012

PARTS: (888) UR-PARTS

PARTSFAX: (559) 896-9244

1775 Park St., Selma, CA 93662

<http://www.upright.com>

067449-001

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Safety Rules and Operating Instructions

Safety Rules and Operating Instructions