

# Operator Manual

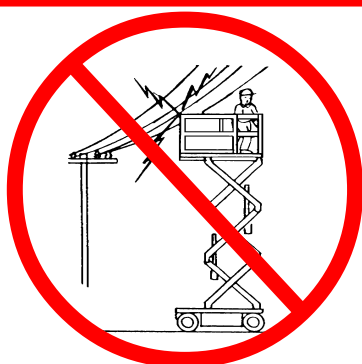
## ***LX Electric & Bi-Energy***

SERIAL NO. 3300 TO CURRENT

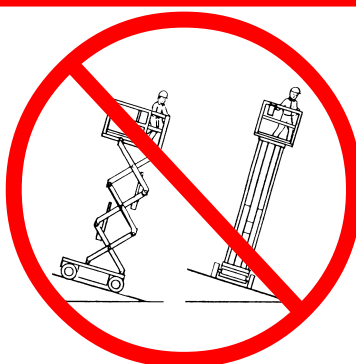
### **WARNING**

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.

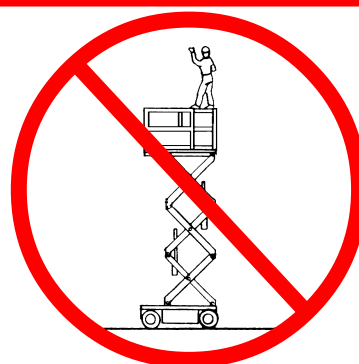
## **SAFETY RULES**



**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



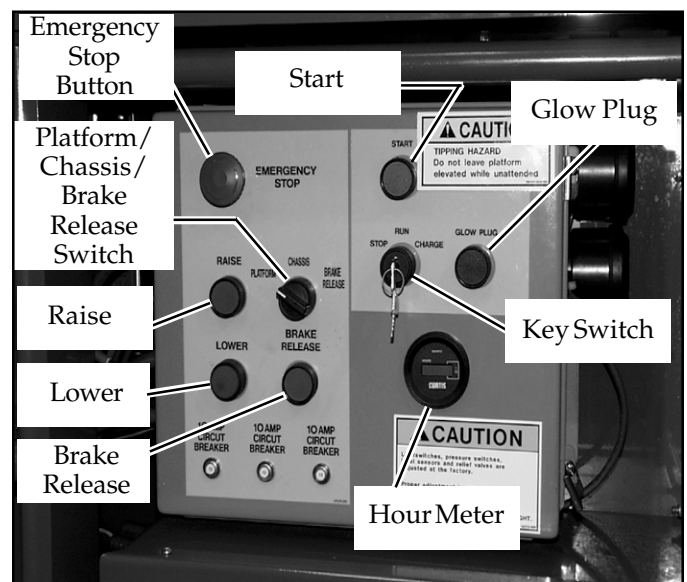
**STAND CLEAR** of the work platform while performing the following checks.

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.

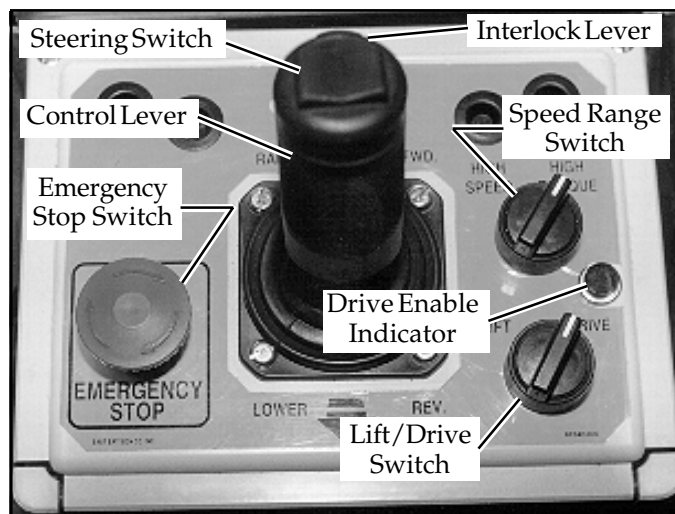


**Figure 1: Chassis control panel. Bi-Energy controls shown, Electric model does not include glow plug button or start button.**

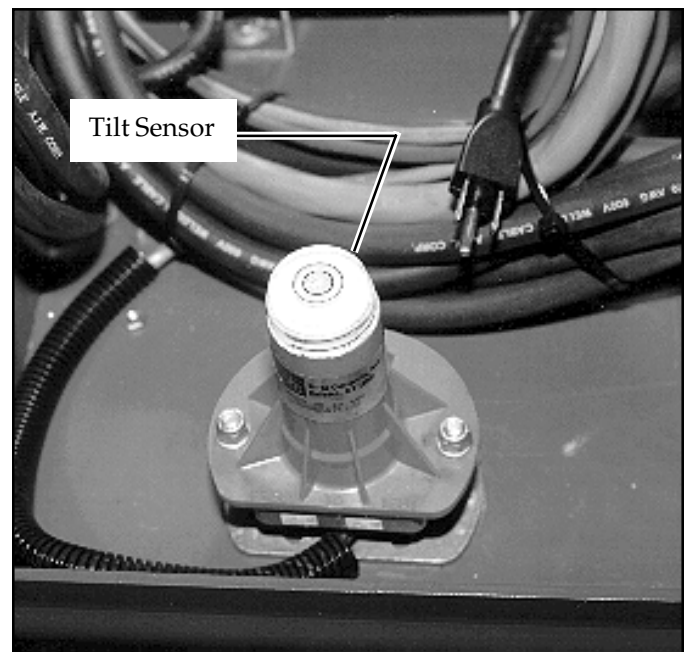
**NOTE: Bi-Energy machine may be powered by batteries or by engine. To power the machine by engine, turn platform or chassis key on, press engine start button to crank the engine. Release button when engine starts. If engine is cold, press the glow plug button for six seconds prior to starting.**

**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.

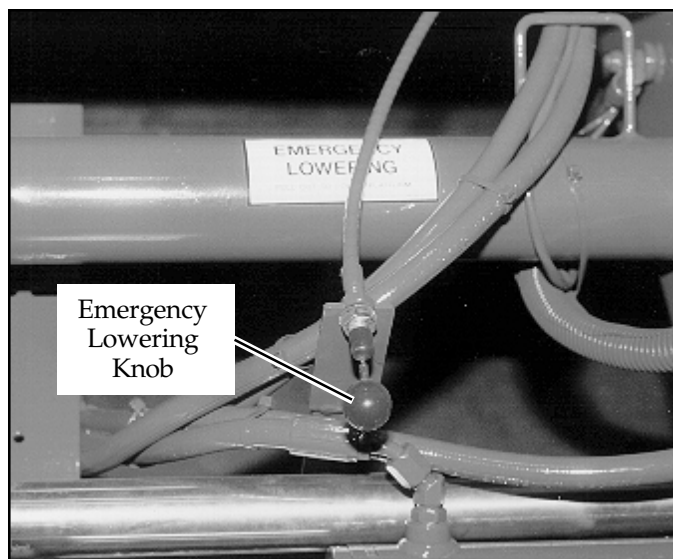


Figure 4: Emergency Lowering Knob

## 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.

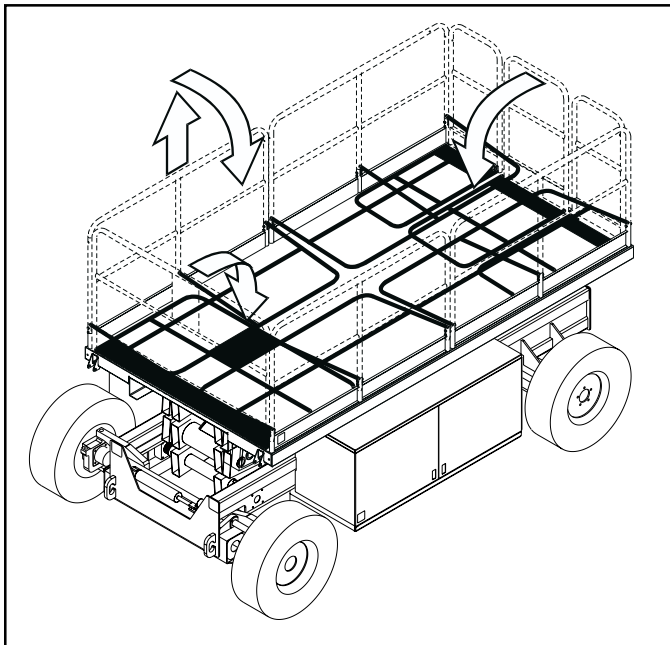


Figure 6: Fold Down Guardrails

## 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.

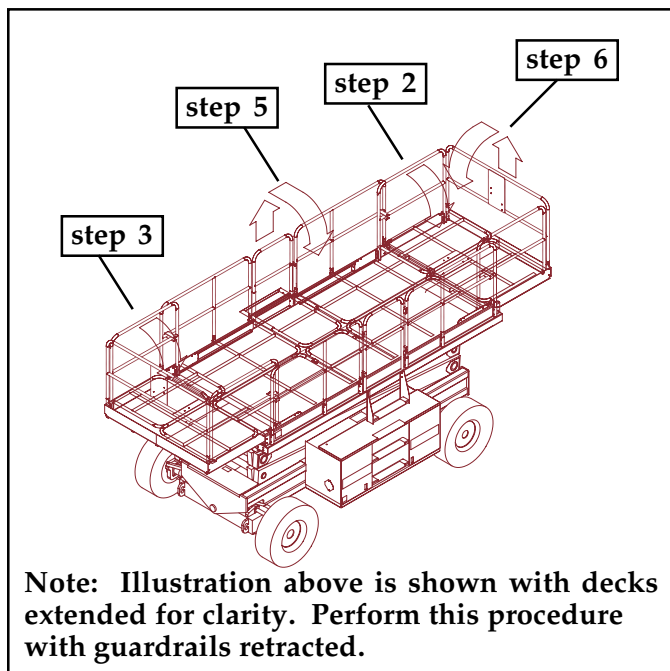


Figure 7: Fold Down Guardrails (Double Deck)

## 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.

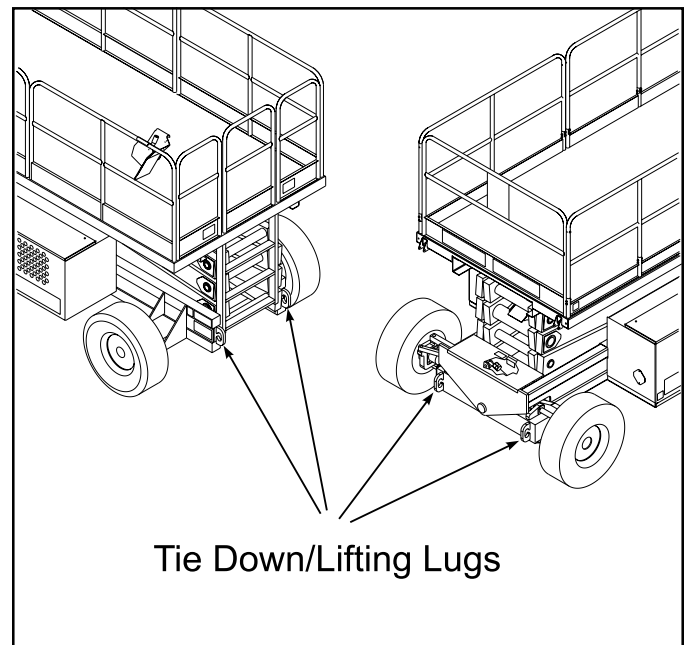


Figure 8: Transporting Work Platform

## 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.

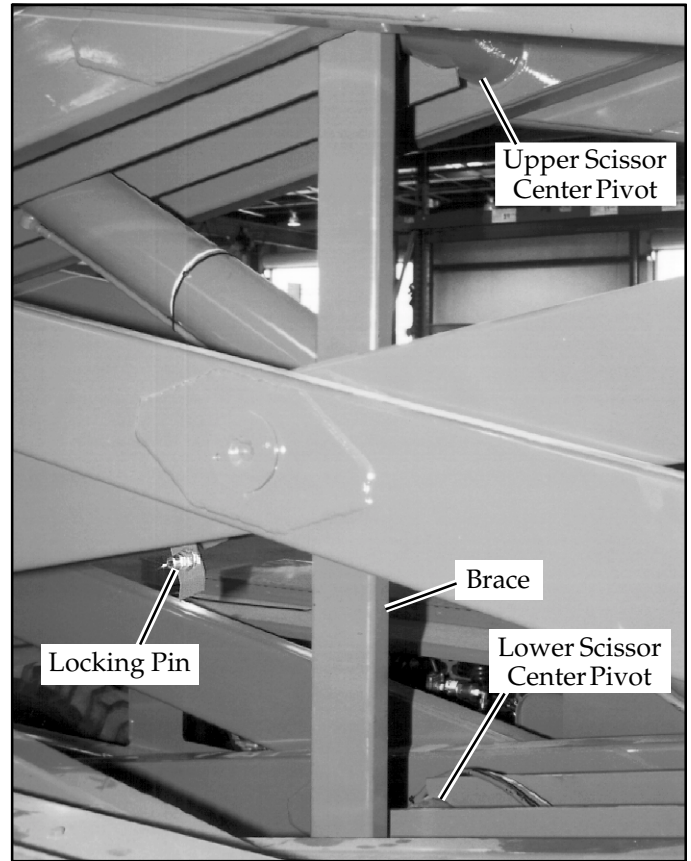


Figure 9: Blocking Elevating Assembly

## 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

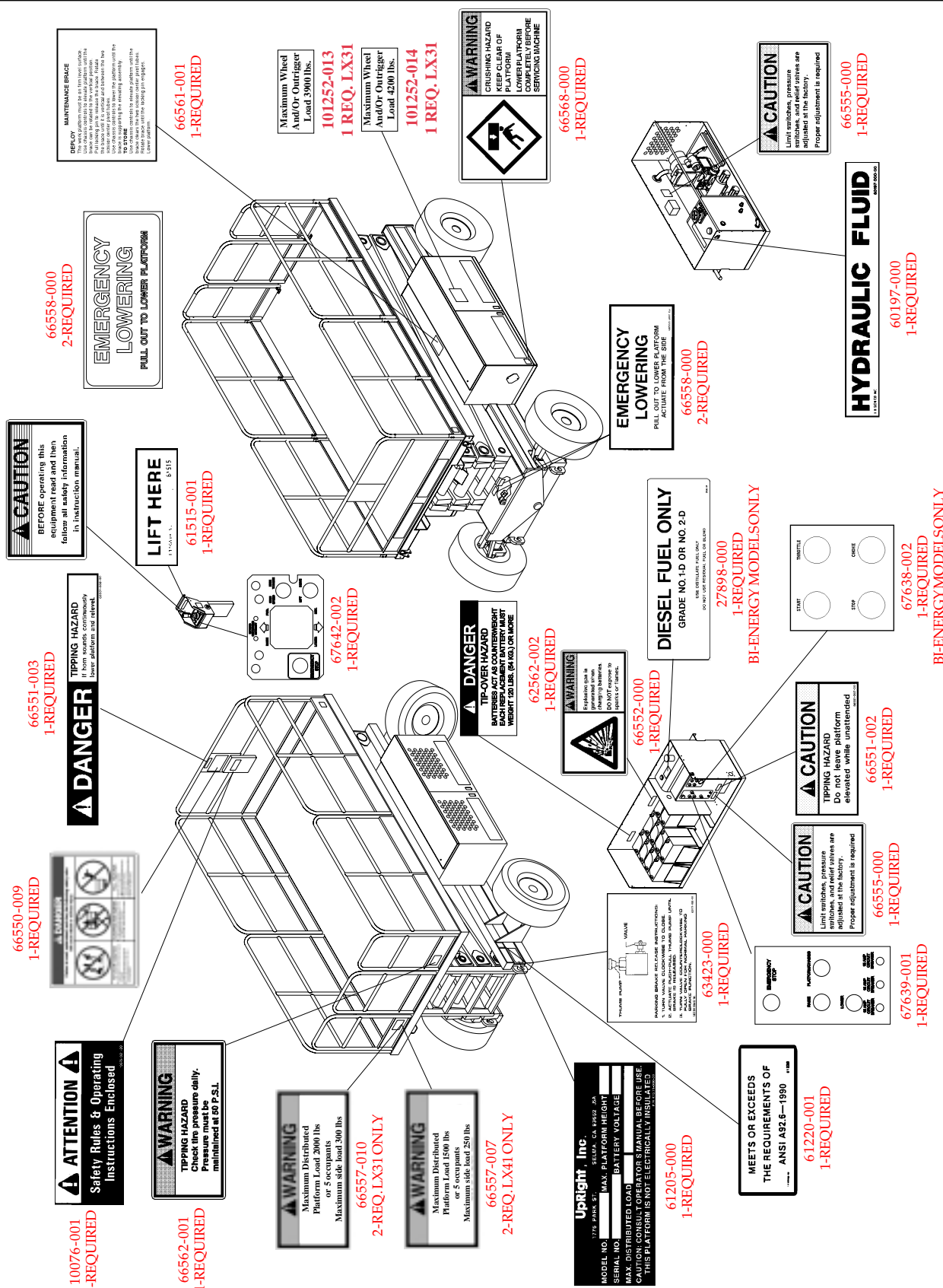
AMERICAN STANDARD CAP SCREWS									METRIC CAP SCREWS										
SAE GRADE		5				8				METRIC GRADE		8.8				10.9			
CAP SCREW SIZE	INCHES									CAP SCREW SIZE MILLIMETERS	 				 				
		TORQUE				TORQUE					TORQUE				TORQUE				
		FT.-LBS.		Nm		FT.-LBS.		Nm			FT.-LBS.		Nm		FT.-LBS.		Nm		
		MIN	MAX	MIN	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.

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**For machines equipped with options consult Service Manual.**

## PLATFORM.



## Specifications\*

ITEM	LX31	LX41
<b>Platform Size</b> (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]
<b>Double Deck Models</b> 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]
<b>Max. Platform Capacity</b> 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]
<b>Double Deck Models</b> on Extension (one end only)	lbs [795 kg] lbs. [227 kg]	1250 lbs [567 kg] 500 lbs. [227 kg]
<b>Max. No. of occupants</b> Standard on Extension	8 people 2 people	6 people 2 people
<b>Double Deck Models</b> on Extension (one end only)	8 people 2 people	6 people 2 people
<b>Height</b> 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]
<b>Dimensions</b> 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]
<b>Driveable Height</b>	31 ft. [9.45 m]	40 ft. 6 in. [12.34 m]
<b>Surface Speed</b> 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]
<b>System Voltage</b>	48 Volt DC	48 Volt DC
<b>Hydraulic Tank Capacity</b>	28.3 Gallons [107.13 l]	28.3 Gallons [107.13 l]
<b>Maximum Hydraulic System Pressure</b>	3000 psi [206.8 bar]	3000 psi [206.8 bar]
<b>Hydraulic Fluid</b> 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
<b>Lift System</b>	One Single Stage Lift Cylinder	One Single Stage Lift Cylinder
<b>Lift Speed</b>	Raise, 40 sec./ Lower, 60 sec.	Raise, 50 sec./ Lower, 70 sec.
<b>Power Source</b>	Eight 6V 350 AH Batteries (BiEnergy) One Kubota 12 HP Diesel	Eight 6V 350 AH Batteries (BiEnergy) One Kubota 12 HP Diesel
<b>Drive Control</b>	Proportional	Proportional
<b>Control System</b>	Smooth one hand Joystick	Smooth one hand Joystick
<b>Horizontal Drive</b>	Two Electric Wheel Motors	Two Electric Wheel Motors
<b>Tires</b> 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
<b>Parking Brakes</b>	Two, Spring Applied, Hydraulic Release, Multiple Disc	Two, Spring Applied, Hydraulic Release, Multiple Disc
<b>Turning Radius</b> (inside)	48 in. [1.22 m]	48 in. [1.22 m]
<b>Maximum Gradeability</b>	2WD: 30% [16.7°]	2WD: 30% [16.7°]
<b>Wheel Base</b>	115.75 in. [2.94 m]	115.75 in. [2.94 m]
<b>Guardrails</b>	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
<b>Toeboard</b>	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**

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FAX: (559) 896-9012

PARTS: (888) UR-PARTS

PARTSFAX: (559) 896-9244

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