

UpRight

Operator Manual

SL-26/30N

SERIAL NO. 9600 TO CURRENT

WARNING

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

SAFETY RULES



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



NEVER elevate the platform or drive the machine while elevated unless the machine is on a firm level surface.



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 before operating machine.

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

SECURE gate across entrance after mounting 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.

CHECK all four tires for correct inflation. See Specifications.

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 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 batteries near sparks or open flame; batteries that are being charged emit highly explosive hydrogen gas.

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

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

Introduction

This manual covers SL-26/30 Narrow Work Platforms. **This manual must be stored on the machine at all times.**

Pre-Operation and Safety Inspection

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

1. Remove module covers and inspect for damage, oil leaks or missing parts.
2. Check the level of the hydraulic oil with the platform fully lowered. Oil should be visible in the sight gauge. Add hydraulic oil, if necessary (see *Specifications, back cover*).
3. Check that the fluid level in the batteries is correct (see *Battery Maintenance, page 6*).
4. 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, loose connections and tire damage.
5. Check that all guardrails are securely in place with all fasteners properly torqued.
6. Check tire pressure (50 psi).
7. Place the Chassis Emergency Stop Switch to the ON position. Open the switch guard and push the switch toward the guard.

Dual Fuel Model Inspection

1. Check fuel supply.
2. Check engine oil level with dipstick.
3. Set dual fuel selector to desired position. Set to the center position to purge the system when switching fuels. If the machine is to be operated on propane, open the supply valve on the tank.

NOTE: When using LP gas, use clean, water free liquid petroleum gas, preferably from a bulk storage tank. Follow the instructions located on the Power Module tray for filling the tank. Over filling the propane tank may cause regulator freeze-up.

⚠ WARNING ⚠

If you smell propane, close the supply valve on the tank immediately until you have located and corrected the leak.

Electric Model inspection

1. Verify batteries are charged (see *Battery Maintenance, page 6*).
2. Check that A.C. extension cord has been disconnected from charger.

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 front guardrail. Firmly grasp Controller hanger in such a manner that the Interlock Lever can be depressed, while performing the following checks from the ground.
2. Pull Controller Emergency Stop Button out to ON position.
3. Turn Controller Key Switch clockwise to **ON**. Turn fully clockwise to start engine (Dual Fuel only).
4. Turn Drive/Lift Switch to **DRIVE** position.
5. With the Speed Range Switch first in **HIGH TORQUE** and then in **HIGH SPEED** actuate 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 from center the faster the machine will travel.

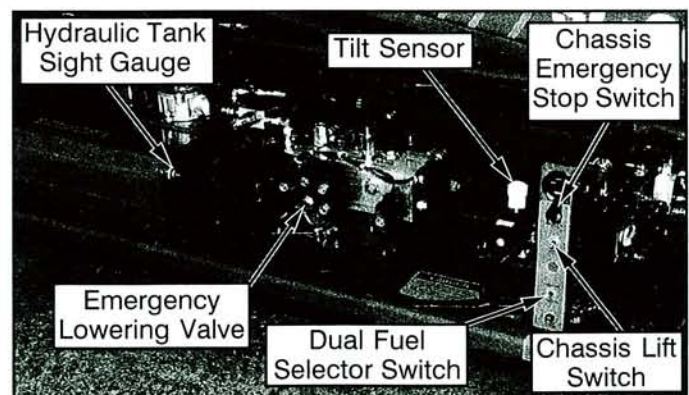


Figure 1: Control Module, Chassis Left Side

6. Push Steering Switch **RIGHT** then **LEFT** to check for steering control.
7. Rehook Controller on front guardrail.
8. Push Chassis Lift Switch to **UP** position and elevate platform while pushing the Tilt Sensor off of level. The platform should only elevate about one foot (.3 m) 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 Chassis Lift Switch to **DOWN**, and check operation of the audible lowering alarm.
12. Open the Chassis Emergency Lowering Valve, push in and turn counterclockwise, to check for proper operation. Once the platform is fully lowered, close the valve, push in and turn clockwise until the detent engages.
13. Close and secure module covers.
14. Turn the Controller Key Switch counterclockwise to OFF.

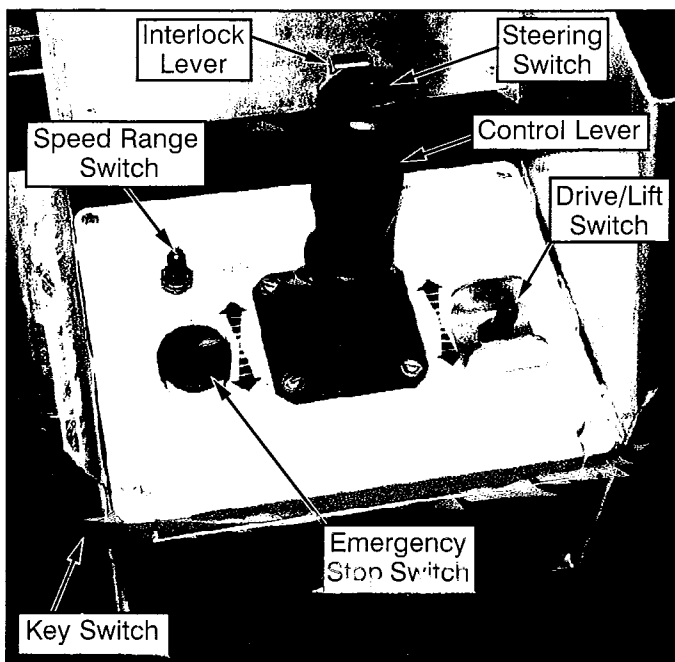


Figure 2: Controller

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.

Travel With Platform Lowered

1. Verify Chassis Emergency Stop Switch is in the ON position.
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 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 Switch to the **DRIVE** position and turn the Key Switch to **ON**. On Dual Fuel models start the engine.
7. Set the Drive/Lift Speed Range Switch to **HIGH TORQUE**.
8. 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.
9. While moving, push the Drive/Lift Speed Range Switch to **HIGH SPEED** for travel on level surfaces or to **HIGH TORQUE** 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. When the work task is completed, position the Drive/Lift Switch to **LIFT** and 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.

1. Check that the route is clear of persons, obstructions, holes and drop-offs and is 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.

Emergency Lowering

The Emergency Lowering Valve is located on the left hand side of the chassis through the cutout in the Control Module cover.

1. Open the Emergency Lowering Valve by pushing in and turning the knob counterclockwise approximately $\frac{1}{4}$ turn, the knob will pop out disengaging detent.
2. Once the platform is fully lowered, be certain that the Emergency Lowering Valve is closed again. The platform will not elevate if the Emergency Lowering Valve has not been closed.
3. To close the Emergency Lowering Valve, push the knob in and turn approximately $\frac{1}{4}$ turn clockwise until the detent engages.

Switching Fuels (Dual Fuel Only)

1. With engine running push the Fuel Selector Switch to the center position.
2. After the engine has quit running select the appropriate fuel supply.
3. Restart the engine.

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 3)

Perform the following only when the machine will not operate under its own power and it is necessary to move the machine or when towing the machine up a grade or winching onto a trailer to transport.

1. Close the needle valve by turning the knob clockwise.
2. Pump the Brake Release Pump until the Parking Brake Cylinder Rod clears the wheel rotor.
3. The machine will now roll when pushed or pulled.
4. Be sure to open the needle valve and verify that the cylinder rod has extended before the machine is operated.



WARNING



Never operate work platform with the Parking Brake inoperative. Serious injury or damage could result.

Never tow faster than 1 ft./sec. (.3 m/sec.)

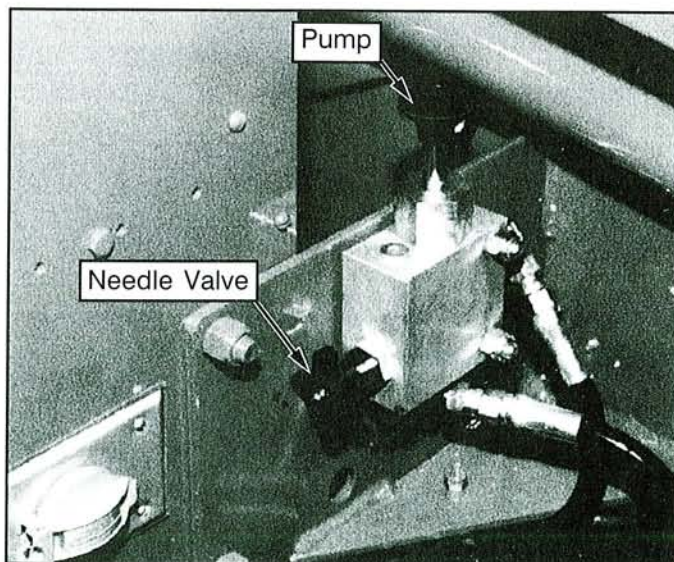


Figure 3: Brake Release Pump

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 4)

NOTE: When performing the following procedures retain all fasteners.

1. Place Controller on deck.
2. Starting at the front of the Platform, remove nuts, bolts and washers from the top of the front guardrail. Fold the front guardrail forward and down.
3. Hang the Controller from the front guardrail.
4. Close and latch the gate.
5. Remove nuts, bolts and washers from the top of the rear guardrail. Fold the rear guardrail back and down being careful to keep gate latched at all times.
6. Fold one side guardrail in so it rests on the deck. Repeat with other side guardrail.

Erection Procedure

1. Raise side guardrails.
2. Raise rear guardrail assembly, aligning holes and install bolts, washers and nuts. Tighten securely.
3. Place the Controller on the deck.
4. Raise front guardrail, aligning holes and install bolts, washers and nuts. Tighten securely.
5. Hang Controller from front guardrail.
6. Before operating work platform check that all fasteners are in place and properly torqued.



DANGER



Before entering Platform, guardrails must be securely fastened in their proper position.

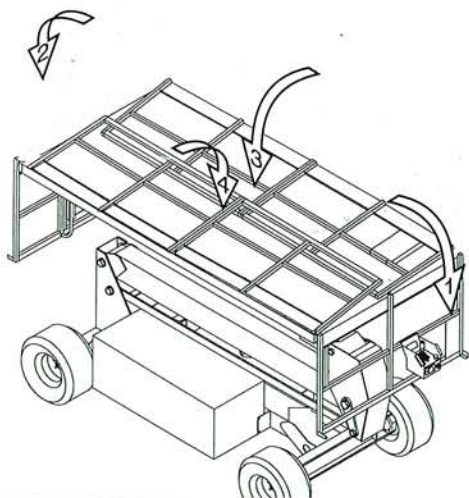


Figure 4: Fold Down Guardrails

Transporting Work Platform

By Forklift

NOTE: Forklifting is for transporting only.



CAUTION



See specifications for weight of work platform and be certain that forklift is of adequate capacity to lift platform.

Forklift from side of Chassis by lifting under the Chassis Modules (Figure 5).

By Crane

1. Secure straps to Lifting Lugs only (Figure 5)

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 lugs (Figure 5).



CAUTION



Tie down lugs are not to be used to lift work platform.

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

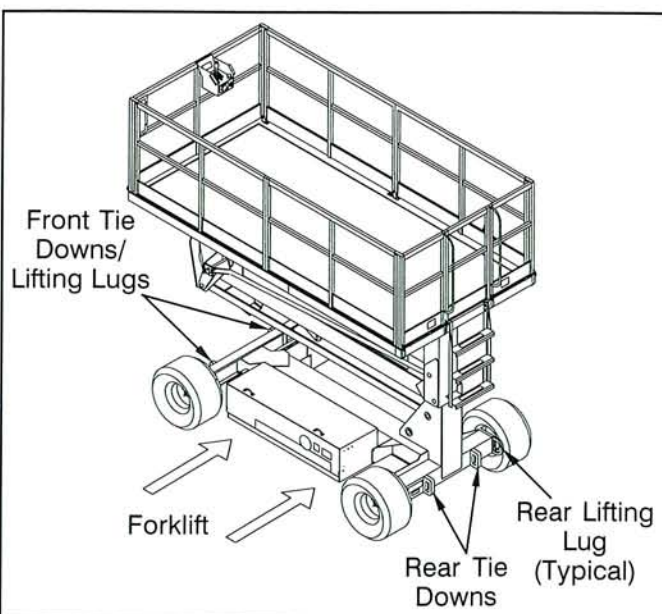


Figure 5: Transporting Work Platform

Maintenance



DANGER



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 installing or removing brace.



CAUTION



DO NOT support or raise the front of the platform during any maintenance operation as this may result in damage to the tension members.

Blocking Elevating Assembly (Figure 6)

Installation

1. Park the work platform on firm level ground.
2. Remove Control Module covers.
3. Verify both Emergency Stop Switches are ON.
4. Turn Chassis Key Switch to **CHASSIS**.
5. Position Chassis Lift Switch to **UP** and elevate platform approximately 12 inches (305 mm).
6. Place a jackstand with a minimum rating of 4,000 lbs. (1,814 Kg) between the Lower Arm and Chassis just behind the front axle.
7. Push Chassis Lift Switch to **DOWN** position and gradually lower platform until jackstand is secured tightly between Lower Arm and Chassis.

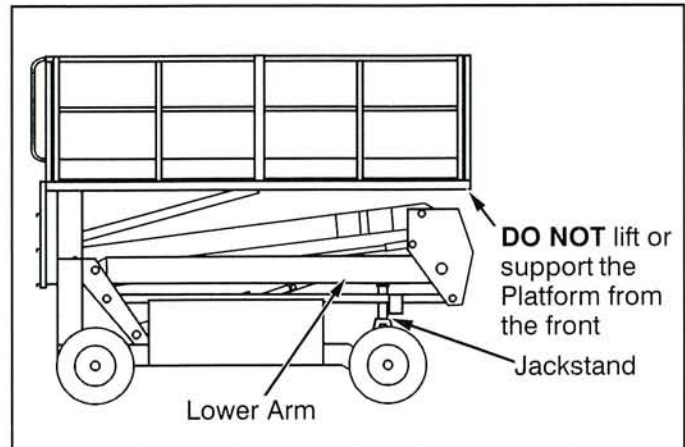


Figure 6: Blocking Elevating Assembly

Removal

1. Push Chassis Lift Switch to **UP** position and gradually raise platform until jackstand can be removed.
2. Remove jackstand.
3. Push Chassis Lift Switch to **DOWN** position and completely lower platform.

Battery Maintenance

⚠ WARNING ⚠

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

Always wear safety glasses when working with batteries.

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

Battery Inspection and Cleaning

Check battery fluid level daily, especially if work platform is being used in a warm, dry climate. If required, add distilled water ONLY. Use of tap water with high mineral content will shorten battery life.

⚠ CAUTION ⚠

If battery water level is not maintained, batteries will not fully charge, creating a low discharge rate which will damage motor/pump unit and void warranty.

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

Clean the batteries when there are signs of corrosion at the terminals or when electrolyte has overflowed during charging. Use a baking soda solution to clean the battery, taking care not to get the solution inside the cells. Rinse thoroughly with clean water. Clean battery and cable contact surfaces to a bright metal finish whenever a cable is removed.

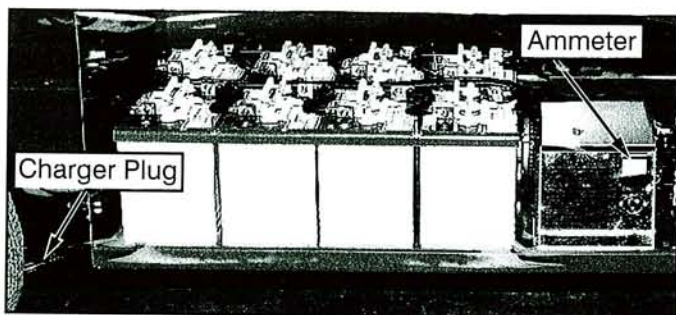


Figure 7: Power Module, Chassis Right Side

Battery Charging (Electric Model -Figure 7)

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

⚠ WARNING ⚠

Charge batteries in a well ventilated area.

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

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

Never leave the charger unattended for more than two days.

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

Keep charger dry.

Charge batteries as follows:

1. Check the batteries fluid level. If the electrolyte level is lower than $\frac{3}{8}$ in. (10 mm) above the plates, add clean, distilled water only.
2. Connect extension cord (12 gauge conductor minimum and 50 ft. (15 m) in length maximum) to the charger plug. Connect other end of extension cord to properly grounded outlet of proper voltage and frequency.
3. The charger turns on automatically after a short delay.
4. The charger turns off automatically when the batteries are fully charged.

Battery Cell Equalization

The specific gravity of the electrolyte in the battery cells should be equalized monthly. To do this, charge the battery as outlined in Battery Charging. After this initial charge, check the electrolyte level in all cells and add distilled water as necessary. Then, charge the batteries for an additional 8 hours. During this time, the charging current will be low (4 amps) as the cells are equalizing.

After equalization, the specific gravity of all cells should be checked with a hydrometer. The temperature corrected specific gravity should be 1.260. If the battery contains any cells with corrected readings below 1.230, the battery should be replaced.

Do not check the specific gravity in a cell to which water has just been added. If there is not enough electrolyte in a fully charged cell to obtain a sample for the hydrometer, add water and continue charging for 1 to 2 hours to adequately mix the water and electrolyte.

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 the following page and use the Routine Service table as a checklist when inspecting a machine for service.

COMPONENT	INSPECTION OR SERVICES	INTERVAL	MODEL	Y	N	R
Battery System	Check electrolyte level	Daily	A			
	Check specific gravity	30D	A			
	Clean exterior	6M	A			
	Check battery cable condition	Daily	A			
	Charge batteries	Daily	E			
	Clean terminals	6M	A			
Engine Oil	Check level and condition	Daily	D			
	Check for leaks	Daily	D			
	Change oil filter	30D	D			
Engine Fuel System	Check fuel level	Daily	D			
	Check for leaks	Daily	D			
	Replace fuel filter	6M	D			
	Check air cleaner	Daily	D			
Hydraulic Oil	Check oil level	Daily	A			
	Change filter	6M	A			
	Drain and replace oil	2Y	A			
Hydraulic System	Check for leaks	Daily	A			
	Check hose connections	30D	A			
	Check hoses for exterior wear	30D	A			
Emergency Hydraulic System	Open the emergency lowering valve and check for serviceability	Daily	A			
Controller	Check switch operation	Daily	A			
Control Cable	Check the exterior of the cable for pinching, binding or wear	Daily	A			
Platform Deck and Rails	Check fasteners for proper torque	Daily	A			
	Check welds for cracks	Daily	A			
Tires	Check condition of deck	Daily	A			
	Check for damage	Daily	A			
	Check air pressure (50 psi-B78 x 13 ST)	Daily	A			
Hydraulic Pump	Check lug nuts (torque to 90 ft. lbs. [123 Nm])	30D	A			
	Wipe clean	30D	A			
	Check for leaks at mating surfaces	30D	A			
	Check for hose fitting leaks	Daily	A			
	Check mounting bolts for proper torque	30D	A			
	Check the drive coupling for proper torque and alignment	1Y	A			
Drive Motors	Lubricate pump splines	6M	D			
	Check for operation and leaks	Daily	A			
	Check hardware & fittings for proper torque	6M	A			
	Grease pivot pins	30D	A			
Steering System	Oil king pins	30D	A			
	Check steering cylinder for leaks & mounting bolts for proper torque	30D	A			

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 year or 1000 hours

Model

A= All Models

E= Electric Models

D= Dual Fuel Models

Y=Yes/Acceptable

N=No/Not Acceptable

R=Repaired/Acceptable

COMPONENT	INSPECTION OR SERVICES	INTERVAL	MODEL	Y	N	R
Elevating Assembly	Inspect for structural cracks	Daily	A			
	Check pivot points for wear	30D	A			
	Check mounting pin pivot bolts for proper torque	30D	A			
	Check linkage gear for wear	6M	A			
	Check elevating arms for bending	6M	A			
	Grease linkage pins	30D	A			
	Grease linkage gear	30D	A			
Chassis	Check hoses for pinch or rubbing points	Daily	A			
	Check component mounting for proper torque	6M	A			
	Check welds for cracks	Daily	A			
Lift Cylinder	Check the cylinder rod for wear	30D	A			
	Check mounting pin pivot bolts for proper torque	30D	A			
	Check pivot pin snap rings	30D	A			
	Check seals for leaks	30D	A			
	Inspect pivot points for wear	30D	A			
	Check fittings for proper torque	30D	A			
Entire Unit	Check for and repair collision damage	Daily	A			
	Check fasteners for proper torque	3M	A			
	Check for corrosion-remove and repaint	6M	A			
	Lubricate	30D	A			
Labels	Check for peeling, missing, or unreadable labels & replace	Daily	A			
Wheel Bearings	Check wheel assembly for play	30D	A			
	Repack wheel bearings (replace wheel bearings and seals at 2000 hrs.)	2Y	A			

Service Report

Date: _____

Owner: _____

Model No: _____ Serial No: _____

Served By: _____

Service Interval: _____

SL-26/30 N 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	SL-26N	SL-30N
Platform Size (Inside Toeboards)		
Standard	57.5 in. x 141.5 in. [1.46 m x 3.59 m]	57.5 in. x 166.25 in. [1.46 m x 4.22 m]
w/ Extension	57.5 in. x 181.5 in. [1.46 m x 4.61 m]	N/A
Max. Platform Capacity		
Standard	1250 lbs. [567 kg]	800 lbs. [363 kg]
w/ Extension	1250 lbs. [567 kg]	N/A
on Extension	250 lbs. [110 kg]	N/A
Max. No. Of occupants		
Standard	5 people	3 people
on Extension	1 person	N/A
Height		
Working Height	32 ft. [9.75 m]	36 ft. [10.97 m]
Max. Platform Height	26 ft. [7.93 m]	30 ft. [9.14 m]
Min. Platform Height	59 in. [1.5 m]	59 in. [1.5 m]
Dimensions		
Weight	Dual Fuel: 4,630 lbs. [2,100 kg] Electric: 4,960 [2,247 kg]	Dual Fuel: 4,942 lbs. [2,242 kg] Electric: 5,272 [2,391 kg]
Overall Width	66 in. [1.68 m], with standard tires	66 in. [1.68 m], with standard tires
Overall Height	94.5 in. [2.40 m]	94.5 in. [2.40 m]
Overall Length	149 in. [3.79 m]	173 in. [4.39 m]
Driveable Height	32 ft. [9.75 m]	36 ft. [10.97 m]
Surface Speed		
Platform Lowered: Dual Fuel	0 to 3.1 mph [0 to 5.0 km/h]	0 to 3.1 mph [0 to 5.0 km/h]
Electric	0 to 2.6 mph [0 to 4.2 km/h]	0 to 2.6 mph [0 to 4.2 km/h]
Platform Raised: Dual Fuel	0 to .5 mph [0 to .8 km/h]	0 to .5 mph [0 to .8 km/h]
Electric	0 to .5 mph [0 to .8 km/h]	0 to .5 mph [0 to .8 km/h]
System Voltage	Dual Fuel: 12 Volt DC Electric: 24 Volt DC	Dual Fuel: 12 Volt DC Electric: 24 Volt DC
Battery Charger (Electric only)	40 Amp 110 V 60 Hz (40 Amp 220 V 50 Hz, Optional)	40 Amp 110 V 60 Hz (40 Amp 220 V 50 Hz, Optional)
Hydraulic Tank Capacity	12 Gallons [45.5 l]	12 Gallons [45.5 l]
Maximum Hydraulic System Pressure	2500 psi [172 bar]	2500 psi [172 bar]
Hydraulic Fluid		
Normal Use (>32 °F [0 °C])	ISO #46	ISO #46
Low Temp. Use (-10 to 32 °F [-23 to 0 °C])	5W-20 Motor Oil	5W-20 Motor Oil
Lift System	One Single Stage Lift Cylinder	One Single Stage Lift Cylinder
Lift Speed		
Dual Fuel	Raise, 20 sec./Lower, 35 sec.	Raise, 23 sec./Lower, 35 sec.
Electric	Raise, 33 sec./Lower, 35 sec.	Raise, 33 sec./Lower, 35 sec.
Power Source	20 HP Kohler Dual Fuel, 2 Cylinder, Air Cooled Engine (Gasoline/Propane) or Two 24V Electric Motors, Eight 6V 220 Amp/Hour Batteries	20 HP Kohler Dual Fuel, 2 Cylinder, Air Cooled Engine (Gasoline/Propane) or Two 24V Electric Motors, Eight 6V 220 Amp/Hour Batteries
Drive Control	Proportional	Proportional
Control System	Joystick Controller with Interlock Lever and Thumb Rocker Steering, Toggle Selector and Emergency Stop Switches	Joystick Controller with Interlock Lever and Thumb Rocker Steering, Toggle Selector and Emergency Stop Switches
Horizontal Drive	Dual Rear Wheel, Hydraulic Motors	Dual Rear Wheel, Hydraulic Motors
Tires	B78-13ST Slab, 50 psi	B78-13ST Slab, 50 psi
Parking Brake	Spring Applied, Hydraulic Release	Spring Applied, Hydraulic Release
Turning Radius (inside)	9 ft. 9 in. [2.97 m]	9 ft. 9 in. [2.97 m]
Maximum Gradeability	Dual Fuel: 30% [16°] Electric: 25% [14°]	Dual Fuel: 30% [16°] Electric: 25% [14°]
Wheel Base	100 in. [2.54 m]	100 in. [2.54 m]
Guardrails	43.5 in. [1.11 m] high, Fold Down with Gate	43.5 in. [1.11 m] high, Fold Down with Gate
Toeboard	6 in. [152 mm] High	6 in. [152 mm] High

* Specifications subject to change without notice.

Meets or exceeds all applicable requirements of OSHA and ANSI A92.6-1990

Refer to Service Manual for complete parts and service information.

FOR MORE INFORMATION

UpRight
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