snorkel

SL30SL
SL26SL

CE

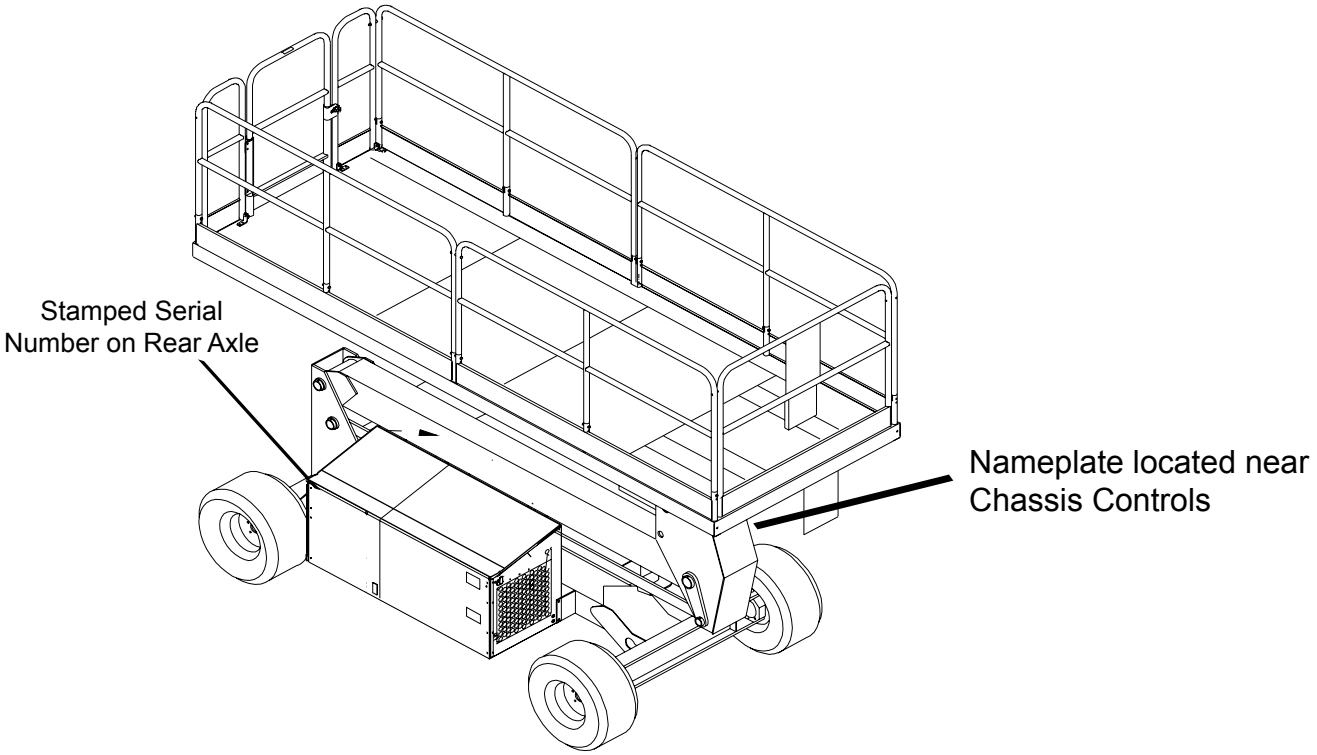
OPERATORS MANUAL

Part Number 511121-000-EN
Feb 2010

Serial Number 51000 and after

SL26/30SL Series

ENGLISH
When contacting **Snorkel** 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.



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OPERATION MANUAL

WARNING

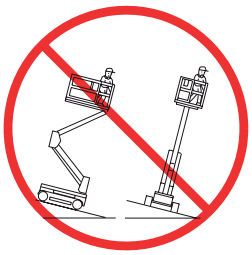
All personnel shall carefully read, understand and follow all safety rules and operating instructions before operating or performing maintenance on any Snorkel aerial work platform.

Safety Rules

Electrocution Hazard

THIS MACHINE IS NOT INSULATED!

Tip Over Hazard

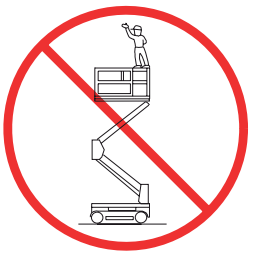


NEVER elevate the platform or drive the machine while elevated unless the machine is on a firm, level surface.

Collision Hazard

NEVER position the platform without first checking for overhead obstructions or other hazards.

Fall Hazard



NEVER climb, stand, or sit on platform guardrails or midrail.

USE OF THE AERIAL WORK PLATFORM: This aerial work platform is intended to lift persons and his tools as well as the material used for the job. It is designed for repair and assembly jobs and assignments at overhead workplaces (ceilings, cranes, roof structures, buildings etc.). All other uses of the aerial work platform are prohibited!

THIS AERIAL WORK PLATFORM IS NOT INSULATED! For this reason it is imperative to keep a safe distance from live parts of electrical equipment!. **DO NOT** get closer than the minimum distance recommended by the “National Regulations”.

Exceeding the specified permissible maximum load **is prohibited**! See “Special Limitations” for details.

The use and operation of the aerial work platform as a lifting tool or a crane (lifting of loads from below upwards or from up high on down) **is prohibited**!

NEVER exceed the manual force allowed for this machine. See “Special Limitations” for details.

DISTRIBUTE all platform loads evenly on the platform.

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

OPERATE machine only on surfaces capable of supporting wheel loads.

NEVER operate the machine when wind speeds exceed this machine’s wind rating. See “Beaufort Scale” for details.

NEVER attach notice boards ect. to the platform, as this will increase the wind loading effect.

IN CASE OF EMERGENCY push EMERGENCY STOP switch to deactivate all powered functions.

IF ALARM SOUNDS while platform is elevated, STOP, carefully lower platform. Move machine to a firm, level surface.

Climbing up the railing of the platform, standing on or stepping from the platform onto buildings, steel or prefab concrete structures, etc., **is prohibited**!

Dismantling the swing gate or other railing components **is prohibited**! Always make certain that the swing gate is closed and securely locked!

It is prohibited to keep the swing gate in an open position (held open with tie-straps) when the platform is raised!

To extend the height or the range by placing of ladders, scaffolds or similar devices on the platform **is prohibited**!

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

INSPECT the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, loose wire connections, and damaged cables or hoses before using.

VERIFY that all labels are in place and legible before using.

NEVER use a machine that is damaged, not functioning properly, **VERIFY** that all labels are in place and legible before using.

To bypass any safety equipment **is prohibited** and presents a danger for the persons on the aerial work platform and in its working range.

NEVER charge batteries near sparks or open flame. Charging batteries emit explosive hydrogen gas.

Modifications to the aerial work platform **are prohibited** or permissible only at the approval of the manufacturer.

AFTER USE, secure the work platform from unauthorized use by turning both keyswitches off and removing key.

The driving of MEWP’s on public highways is subject to Regulations made under the Road Traffic Acts.

ENVIRONMENTAL TEMPERATURE LIMITATION, The machine is primarily for use in normal ambient temperatures and conditions ranging between 50c to -20c.

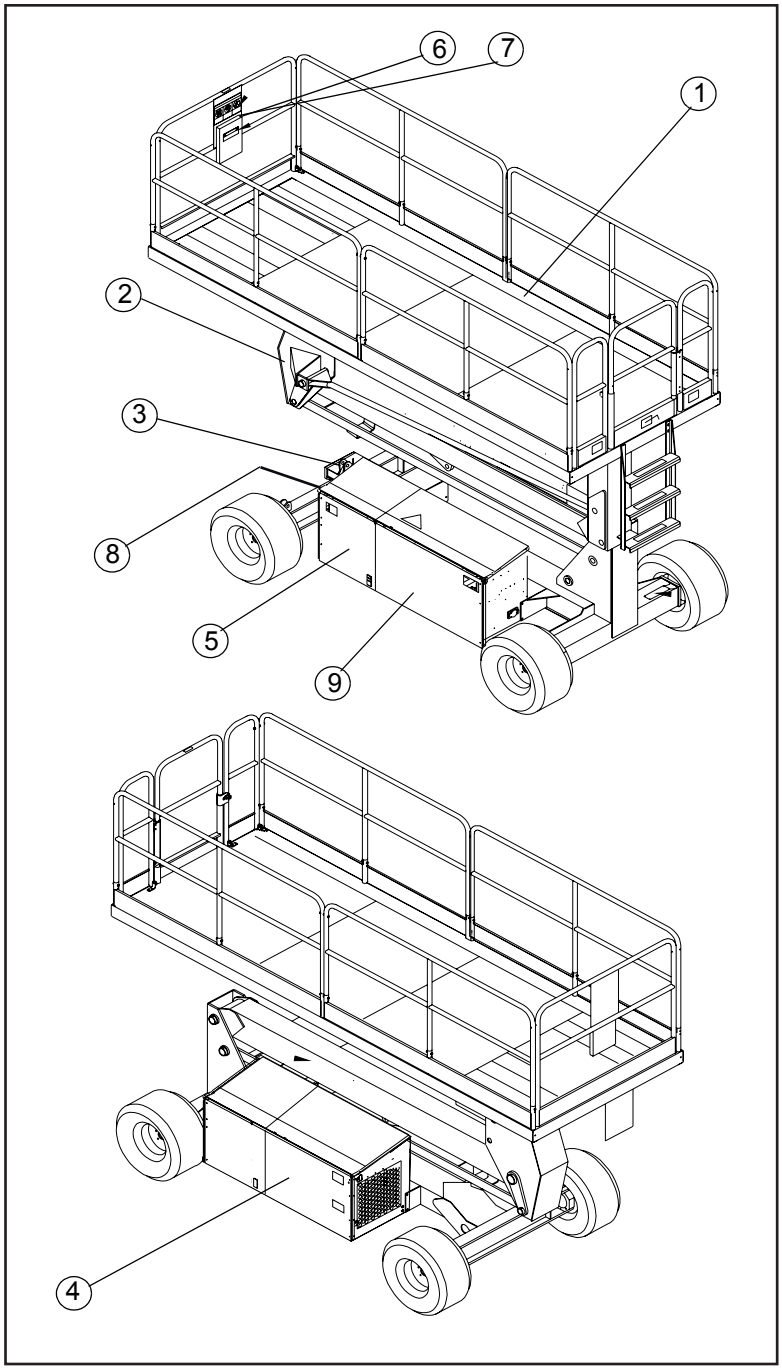
CONTENTS

INTRODUCTION

This manual covers operation of the SL26/30 Speed Level Series Self-Propelled Work Platforms. **This manual must be stored on the machine at all times.**

GENERAL DESCRIPTION

Figure 1: SL26/30 SL Series



1. **Platform**
2. **Elevating Assembly**
3. **Chassis**
4. **Power Module**
5. **Control Module**
6. **Platform Controls**
7. **Manual Case**
8. **Chassis Controls**
9. **Hydraulic Fluid Reservoir**

SPECIAL LIMITATIONS

Travel with the platform raised is limited to creep speed range.
Elevating the Work Platform is limited to firm, level surfaces only.

DANGER

The elevating function shall ONLY be used when the work platform is leveled and on a firm surface. The work platform is designed to be driven over uneven, rough, or soft terrain,however great care is required when traversing adverse terrain. Appropriate speeds should always be used.

PLATFORM CAPACITY

The maximum capacity for the MACHINE, including occupants is determined by model and options, and is listed in “Specifications” on page 18.

DANGER

DO NOT exceed the maximum platform capacity or the platform occupancy limits for this machine.

MANUAL FORCE

Manual force is the force applied by the occupants to objects such as walls or other structures outside the work platform.
The maximum allowable manual force is limited to 200 N (45 lbs.) of force per occupant, with a maximum of 400 N (90 lbs.) for two or more occupants.

DANGER

DO NOT exceed the maximum amount of manual force for this machine.

BEAUFORT SCALE

Never operate the machine when wind speeds exceed 12.5m/s (28 mph) [Beaufort scale 6].

BEAUFORT RATING	WIND SPEED				GROUND CONDITIONS
	m/s	km/h	ft/s	mph	
3	3,4~5,4	12,25~19,4	11.5~17.75	7.5~12.0	Papers and thin branches move, flags wave.
4	5,4~8,0	19,4~28,8	17.75~26.25	12.0~18	Dust is raised, paper whirls up, and small branches sway.
5	8,0~10,8	28,8~38,9	26.25~35.5	18~24.25	Shrubs with leaves start swaying. Wave crests are apparent in ponds or swamps.
6	10,8~13,9	38,9~50,0	35.5~45.5	24.5~31	Tree branches move. Power lines whistle. It is difficult to open an umbrella.
7	13,9~17,2	50,0~61,9	45.5~56.5	31.~38.5	Whole trees sway. It is difficult to walk against the wind.

LIFT OVERLOAD ALARM

If a load equivelent to 90% of safe working load is lifted a fault code “03” will be displayed on the digital display on the platform control box. If a load which is greater than the safe working load is present in the basket all machine functions will cease to operate and an acoustic warning will sound. In order to return to normal operation a load equal to or less than the safe working load must be present in the basket and the power must be re-cycled, power can be re-cycled by pushing the emergency stop button and releasing it again.

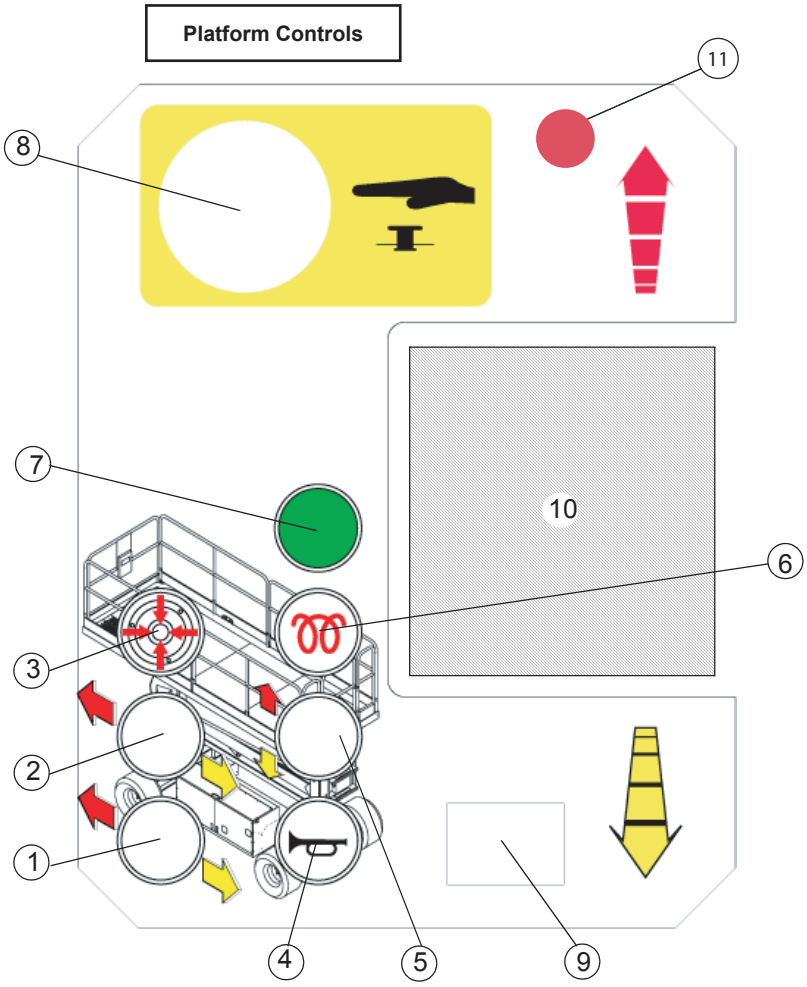
DANGER

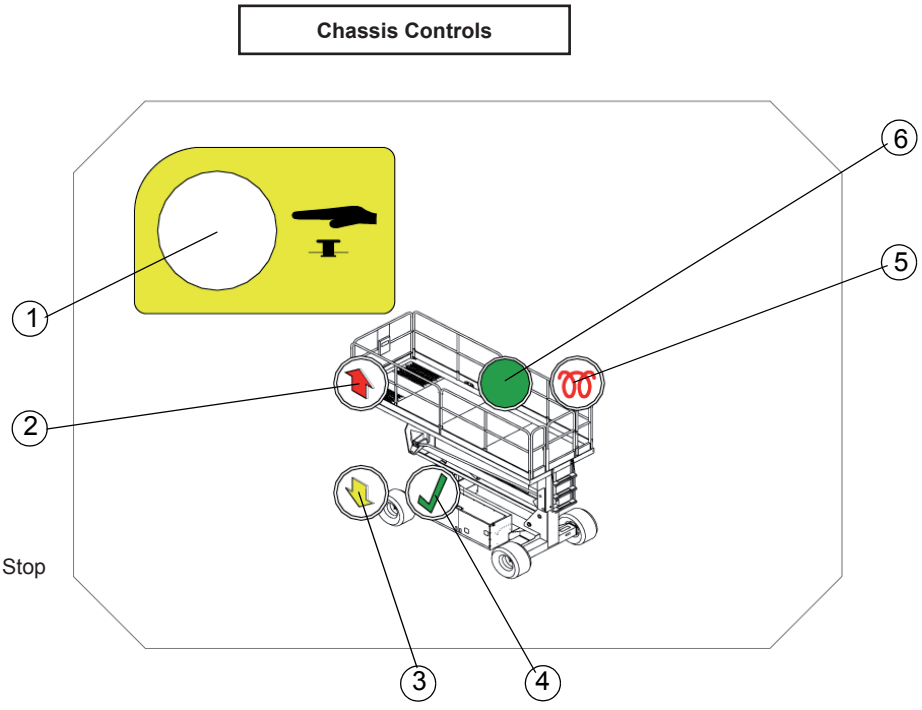
Never operate the machine with a platform load greater than the rated capacity.

CONTROLS AND INDICATORS

Figure 2: Controls and Indicators

1. Drive (Medium)
2. Drive (Low)
3. Level
4. Horn Button
5. Lift/Lower Button
6. Glow Plug
7. Engine Start
8. Emergency Stop Button
9. Display
10. Joystick
11. Red overload light
12. Drive (Hi Speed / Lo Speed)
13. Key Switch





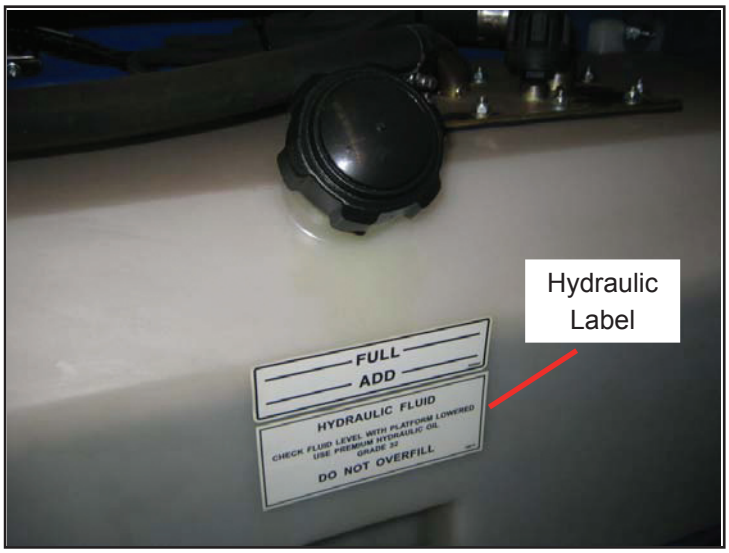
1. Emergency Stop
2. Elevate
3. Descend
4. Enable
5. Glow Plug
6. Start

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 level of the hydraulic fluid with the platform fully lowered. The hydraulic reservoir is located in the Control Module. The fluid level must be between the MIN and MAX lines. Add hydraulic fluid if necessary.
3. Check that fluid level in the starter battery is correct.
4. Check the level of the Diesel fuel with the engine switched off. The fuel tank is located in the Power Module. Add fuel as required.
5. Check that all guardrails are in place and all fasteners are properly tightened.
6. Inspect the machine thoroughly for cracked welds and structural damage, loose or missing hardware, hydraulic leaks, damaged control cables, loose wire connections and wheel bolts.

Figure 3: Hydraulic Tank



Note : check decal located on tank for Hydraulic Fluid Specification(see fig 3).
Adding fluids of a different specification may cause operational problems.

⚠ CAUTION ⚠

Not all hydraulic fluid is suitable to use in the hydraulic system. Some have poor lubricating characteristics and may increase component wear. Only use hydraulic fluid as recommended.

FUEL SPECIFICATIONS

To get the correct power and performance from the engine it is important to use a fuel of the correct quality. The recommended fuel for the SL Machine is Diesel Fuel with a minimum Cetane number of 45.

Fuels complying with the following specifications will be suitable:

DERV to “EN590”
GAS Oil to “BS2869 Class A2” or “ASTM D975 - 91 Class 2D”

FUELS OTHER THAN THESE COULD CAUSE SERIOUS DAMAGE TO THE ENGINE AND-SHOULD NOT BE USED WITHOUT CONSULTING THE MANUFACTURER.

SYSTEM FUNCTION INSPECTION

Refer to Figure 2 (Page 5) for the locations of various controls and indicators.

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 the control console cable from possible damage while performing checks.

1. If necessary, move the machine to an unobstructed area to allow for full elevation.
2. Switch battery isolator on.
3. Twist Chassis Emergency Stop Switch to the ON position.
4. Twist Platform Emergency Stop Switch to the ON position.
5. Turn the Key Switch to the Chassis Control position.
6. Visually inspect the elevating assembly, lift cylinder, cables, and hoses for cracked welds and structural damage, loose hardware, hydraulic leaks, loose wire connections, and erratic operation. Check for missing or loose parts.
7. Push the Chassis ELEVATE and ENABLE buttons and fully elevate the platform.
8. Partially lower the platform by pushing Chassis DESCEND and ENABLE buttons, and check for proper operation of the audible lowering alarm.
9. Open the Emergency Lowering Valve (see Figure 4) by pulling the knob out to check for proper operation. When the platform is lowered, release the knob.
10. Push the Chassis Emergency Stop Switch to check for proper operation. All machine functions should be disabled. Twist the Chassis Emergency Stop Switch to resume.
11. Check that the route is clear of obstacles (persons, obstructions, holes, and drop-offs, bumps and debris), is level, and is capable of supporting the wheel loads.
12. Mount the platform and properly close the entrance.
13. Turn Keyswitch to upper control position.
14. Select DRIVE mode.

NOTE: Use both HI and LOW drive (if applicable) when performing the following step.

15. While engaging the Safety Interlock Trigger, move the Joystick to FORWARD, then REVERSE, to check for speed control.
16. Push the Steering Switch RIGHT, then LEFT, to check for steering control.
17. Select LIFT mode. Grasp the Joystick, engaging the Safety Interlock Trigger, and push it forward to check platform lift controls. Raise the platform to full elevation.
18. Pull back on the Joystick. The platform should descend and the audible lowering alarm should sound.
19. Push the Platform Emergency Stop Switch to check for proper operation. All machine functions should be disabled. Pull out the Platform Emergency Stop Switch to resume.

OPERATION

Before operating the work platform, ensure that the Pre-Operation Safety Inspection has been completed and that any deficiencies have been corrected. **Never operate a damaged or malfunctioning machine.** The operator must be thoroughly trained on this machine.

STARTING THE ENGINE

1. Mount the platform and properly close the entrance.
2. Turn the Key Switch to the Platform position.
3. If the Engine is cold, depress and hold the GLOW PLUG button for approximately 5 seconds.
4. Press green START button, and hold until the Engine is running.

TRAVEL WITH THE PLATFORM LOWERED

1. Check that the route is clear of obstacles (persons, obstructions, holes, drop-offs, bumps, and debris), is level, and is capable of supporting the wheel loads.
2. Verify that the Engine is started and the Chassis Emergency Stop Switch is ON (pulled out).
3. Mount the platform and properly close the entrance.
4. Check clearances above, below, and to the sides of platform.
5. Twist the Platform Emergency Stop Switch out to the ON position.
6. Start the machine and select DRIVE mode.

NOTE: Choose between standard drive, Hi, Low and extra torque depending on the gradient.

7. High speed selected on the Platform Controls is 2-wheel drive only.Max Torque is Four wheel Drive only.
8. The toggle switch is used to select between HIGH and MEDIUM Speed, HIGH speed should only be used to cover large distance over firm level ground. It is not intended to be used for precise manouvering or positioning.
9. Engage the Safety Interlock Trigger and move the Joystick to FORWARD or REVERSE to travel in the desired direction. The speed of the machine will vary depending on how far from centre the Joystick is moved.

STEERING

1. Turn the Drive/Lift Switch to DRIVE.
2. While engaging the Safety Interlock Trigger, push the Steering Switch to RIGHT or LEFT to turn the wheels in the desired direction. Observe the tires while maneuvering the work platform to ensure proper direction.

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

ELEVATING THE PLATFORM

1. Select a firm, level surface.
2. Select LIFT mode.
3. While engaging the Safety Interlock Trigger, push the Joystick forward.
4. If the machine is not level the tilt alarm will sound and the machine will not lift or drive.
5. If the tilt alarm sounds the platform must first be fully lowered, then elevate the platform approximately 600mm (2ft), stop, press and hold the LEVEL button whilst engaging safety interlock trigger until the tilt alarm is silenced. Only then can you elevate fully. If the platform is not levelled correctly the tilt alarm will continue to sound and lift functions will be cut at a height of approximately 2m (6ft).

TRAVEL WITH THE PLATFORM ELEVATED

NOTE: The machine will travel at reduced speed when the platform is elevated.

1. Check that the route is clear of obstacles (persons, obstructions, holes, drop-offs, bumps, and debris), is level, and is capable of supporting the wheel loads.
2. Check clearances above, below, and to the sides of platform.
3. Select DRIVE mode.
4. Engage the Safety Interlock Trigger on the Joystick and move to FORWARD or REVERSE to travel in the desired direction. The speed of the machine will vary depending on how far from center the Joystick is moved.
5. If the machine is not level the tilt alarm will sound and the machine will not lift or drive. If the tilt alarm sounds the platform must be lowered and the machine moved to a firm, level surface before attempting to re-elevate the platform.

LOWERING THE PLATFORM

1. Select LIFT mode.
2. Check around the base of the platform to ensure that no one is in contact with the machine. Engage the Safety Interlock Trigger and pull back on the Joystick to lower the platform.

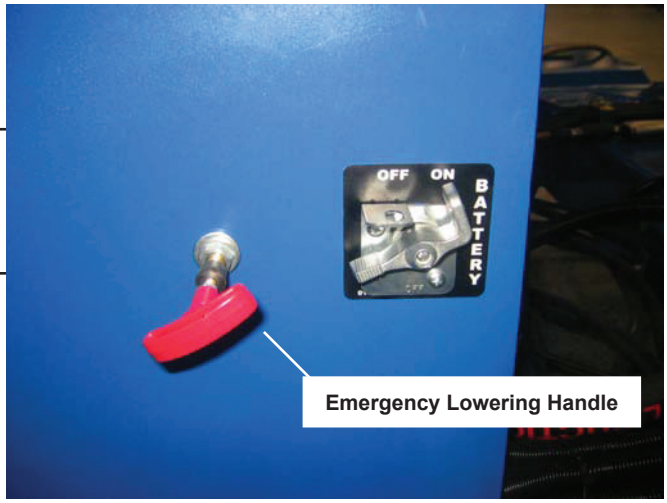
LEVELLING THE PLATFORM

The AUTO LEVEL feature is designed to level the platform in a situation where the ground has no more than a 13 degree slope side to side and 9 degrees fore and aft, if the slope is greater than 13 degrees side to side and 9 degrees fore and aft the AUTO LEVEL feature will not function.
The tilt alarm will continue to sound until the platform is level

1. Check that the route is clear of obstacles (persons, obstructions, holes, drop-offs, bumps, and debris), is level, and is capable of supporting the wheel loads.
2. Check clearances above, below, and to the sides of platform.
3. Elevate the platform approximately 600mm (2ft).
4. Press and hold the AUTO LEVEL and Engage the Safety Interlock Trigger until the platform is level and the tilt alarm is silenced.
5. The Machine can now be driven within the limits of the tilt sensor. If the terrain changes the machine will stop and the platform must be lowered and re-levelled.

EMERGENCY LOWERING

Figure 4: Emergency Lowering Valve



WARNING

If the platform should fail to lower, NEVER climb down the elevating assembly.
Stand clear of the elevating assembly while operating the Emergency Lowering Valve Knob.

SL26-30 SPEED LEVEL

The Emergency Lowering Valve for the SL machine is located on the Module side as shown in fig 4.

1. Open the Emergency Lowering Valve by pulling and holding the handle.
2. To close, release the handle

NOTE: The platform will not elevate if the Emergency Lowering Valve is open.

EXTENSION PLATFORM (SL26 SPEEDLEVEL ONLY) see page 11.

The platform can be extended and securely locked into position.

Use the following procedure to extend the platform:

1. Enter the platform and close the gate.

Caution

The extension platform is free to move when the handles are unlocked. Personal injury may result from accidentally extending or retracting the platform. Make certain the lock pin is engaged when the platform is extended in the working position and when it is stowed. Do not attempt to extend or retract the platform unless the aerial platform is on a level surface.

2. While facing the front of the platform, unlock the LH and RH handles on the extension platform. Using the handles slide the extension platform out. Ensure that the LH and RH are locked securly in place.
3. Try to move the rails back and forth to make sure the extension platform is locked in position.

Use the following procedure to retract the platform:

1. Enter the platform and close the gate.

Caution

The extension platform is free to move when the handles are unlocked. Personal injury may result from accidentally extending or retracting the platform. Make certain the lock pin is engaged when the platform is extended in the working position and when it is stowed. Do not attempt to extend or retract the platform unless the aerial platform is on a level surface.

2. While facing the front of the platform, unlock the LH and RH handles on the extension platform. Using the handles slide the extension platform in. Ensure that the LH and RH are locked securly in place.
3. Try to move the rails back and forth to make sure the platform extension platform is locked in position.

FOLD DOWN GUARDRAILS

This procedure applies only to the SL26-30 Speed Level model for the purpose of Transportation.
Guardrails must be returned to proper position before using the machine.

FOLD DOWN PROCEDURE

1. Retract Extension Platform by releasing Securing Pins and sliding Extension Platform into locking position.
2. Unhook the controller from the side guardrail and place it on the floor of the platform.
3. 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.
4. Close and latch gate.
5. Remove nuts, bolts and washers from the top of the rear guardrail. Fold the rear guardrail down onto the platform being careful to keep latched at all times.
6. Remove nuts, bolts and washers from the top of the side guardrails. Lift up and fold one side guardrail in so it rests on the deck. Repeat with other side guardrails.

ERECTION PROCEDURE

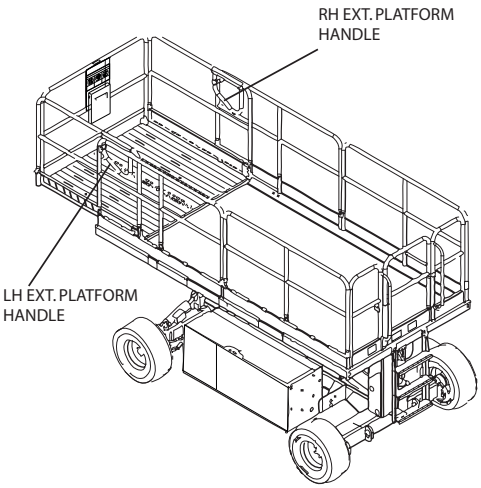
1. Raise side guardrails, making sure each is pushed down to secure the guardrail in the vertical position.
2. Install bolts, washers and nuts between the side guardrails, tighten securely.
3. Raise rear guardrail assembly, aligning holes and install bolts, washers and nuts. Tighten securely.

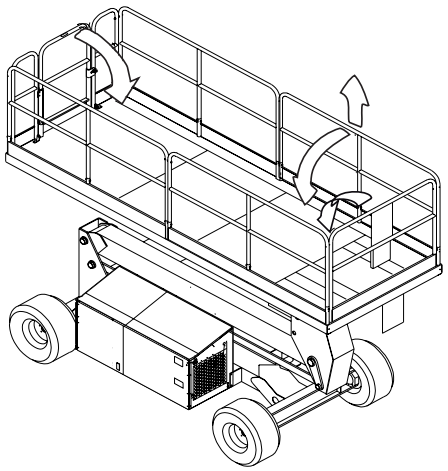
DANGER

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

WARNING

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





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 13).

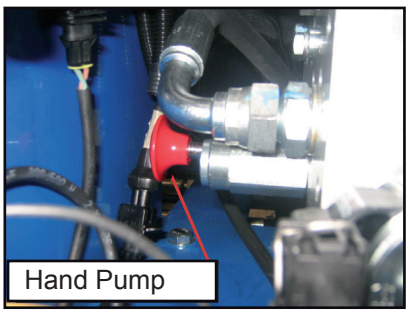
CAUTION

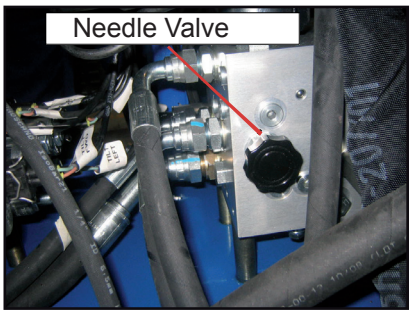
DO NOT tow or winch the machine faster than 0,3 m/s (1 ft./s). Faster speeds will damage drive components and void the warranty.

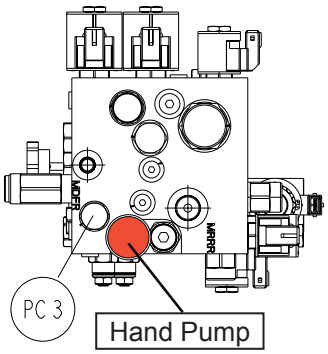
BRAKE RELEASE PUMP

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

1. Open the needle valve by turning the screw anti clockwise, this allows the wheels to freewheel.
2. Pump the Brake Release Pump until the Parking Brake is released.
3. The machine will now roll when pushed or pulled.
4. Be sure to close the needle valve and screw in the **PC3** Valve with an allen key after undoing the locknut. This will release the brake pressure.Once the brakes have been re-applied, return **PC3** Valve to its original configuration by fully unscrewing. Finally tighten the locknut.







WARNING

Never tow faster than 0,3 m/sec. (1 ft./sec.).
Never operate the work platform with the parking brakes released. Serious injury or damage could result.

AFTER USE EACH DAY

1. Ensure that the platform is fully lowered.
2. Park the machine on a firm level surface, preferably under cover, secure against vandals, children and unauthorized operation.
3. Turn the Chassis Key Switch to OFF and remove the key to prevent unauthorized operation.
4. Turn batteries off with master switch..

HOUR METER

To access the hour meter function perform the following steps.

1. Climb into the basket (with the machine powered up)
2. Push the platform emergency stop button.
3. Hold down the following buttons, Horn & Lift.
4. While holding the buttons twist the emergency stop button to return power to the machine.
5. “hr” will now be displayed on the readout, Pressing the right turn button will scroll through the accumulated hours two digits at a time. For example, if pressing the right turn button once displays “20”, pressing it a 2nd time displays “58”, and pressing it a 3rd time displays “hr”, the elapsed time of operation is 2058 hours.

TRANSPOR TING THE WORK PLATFORM

PREPARATION FOR SHIPMENT

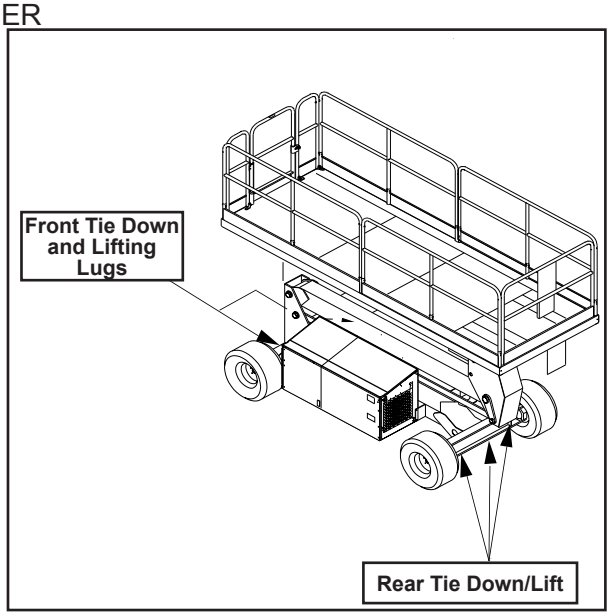
1. Fully lower the platform.
2. Turn batteries off with master switch.
3. Band the controller to the front guardrail.

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 work platform to the transport vehicle with chains or straps of adequate load capacity attached to the chassis tie down/lifting lugs.

Figure 5: Transporting the Work Platform

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 work platform 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 work platform 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 12).
      d. Winch the platform into transport position
      e. Chock the 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.

C A U T I O N

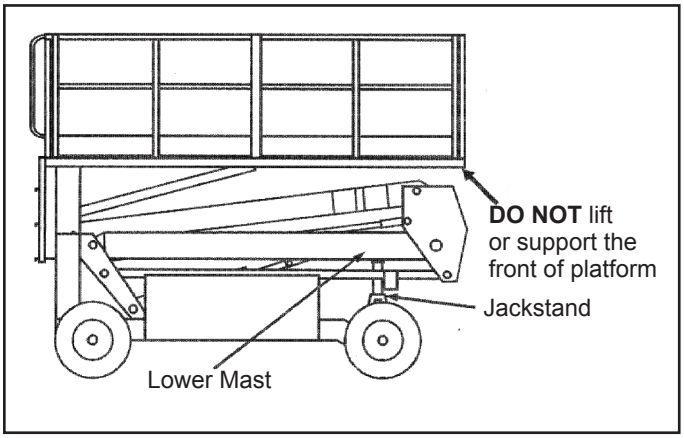
Overtightening of the chains or straps attached to the Tie Down/Lifting Lugs may result in damage to work platform.

MAINTENANCE

WARNING

Never perform service while the platform is elevated without first blocking the elevating assembly. DO NOT stand in the elevating assembly area while deploying or removing the JackStand.

Figure 6: JackStand



BLOCKING THE ELEVATING ASSEMBLY

INSTALLATION

1. Park the work platform on firm, level ground and leave the engine running.
2. Ensure the Chassis Emergency Stop Button is twisted to the ON position.
3. Press and hold the Chassis LIFT and ENABLE buttons to elevate the platform approximately 305 mm (12 inches).
4. Place a jackstand with a minimum rating of 2000 kg (4000 lbs.) between the lower mast and chassis, just behind the front axle.
5. Press and hold the Chassis DESCEND and ENABLE buttons to lower the platform until jackstand is secured tightly between lower mast and Chassis.

REMOVAL

1. Press and hold the Chassis LIFT and ENABLE buttons to elevate the platform until the jackstand can be removed.
2. Remove jackstand.
3. Press and hold the Chassis DESCEND and ENABLE buttons to completely lower the platform.

BATTERY MAINTENANCE (Not applicable to Non Maintenance Batteries)

WARNING

Hazard of explosive gas mixture. Keep sparks, flame, and smoking material away from batteries.
Always wear safety glasses when working near batteries.
Battery fluid is highly corrosive. Thoroughly rinse away any spilled fluid with clean water.
Always replace batteries with Snorkel batteries or manufacturer approved replacements.

- Check the battery fluid level daily, especially if the work platform is being used in a warm, dry climate.
- If electrolyte level is lower than 10 mm (3/8 in.) above the plates add distilled water only. DO NOT use tap water with high mineral content, as it will shorten battery life.
- Keep the terminals and tops of the batteries clean.
- Refer to the Service Manual to extend battery life and for complete service instructions.

BATTERY CHARGING

The battery is charged while the engine is running.

FAULT CODES

01 - SYSTEM INIT ERROR
02 - SYSTEM PLATFORM COM ERROR
03 - PLATFORM OVERLOAD
04 - SYSTEM LOWER PANEL COM ERROR
05 - OIL PRESSURE LOW
06 - COOLANT TEMP HOT

21 - PLATFORM START ON
22 - PLATFORM LEFT TURN SW ON
23 - PLATFORM RIGHT TURN SW ON
24 - PLATFORM LIFT SW ON
25 - PLATFORM HISPEEDDRIVE SW ON
26 - PLATFORM GLOWLP SW ON
27 - PLATFORM LOSPEEDDRIVE SW ON
28 - PLATFORM AUTOLEVEL SW ON
29 - PLATFORM JOYSTICK ENABLE SW ON
31 - PLATFORM JOYSTICK NOT NEUTRAL

34 - GROUND PANEL ENABLE SW ON
37 - GROUND PANEL DOWN SW ON
38 - GROUND PANEL UP SW ON
43 - GROUND PANEL START SW ON
45 - GROUND PANEL GLOWLP SW ON

51 - Coil Fault HiSpeed1
52 - Coil Fault HiSpeed2
55 - Coil Fault LiftUp
56 - Coil Fault LiftDown
57 - Coil Fault TiltLeft
58 - Coil Fault TiltRight
59 - Coil Fault SteerRight
61 - Coil Fault SteerLeft
62 - Coil Fault TiltRear
63 - Coil Fault TiltForward
66 - Coil Fault Forward
67 - Coil Fault Reverse
71 - Coil Fault CushionValve
72 - Coil Fault AxleFloat
73 - Coil Fault SteerDump

68 – LOW BATTERY FAULT

INSPECTION AND MAINTENANCE SCHEDULE

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

WARNING

Before performing preventative maintenance, familiarize yourself with the operation of the machine. Always block the elevating assembly whenever it is necessary to perform maintenance while the platform is elevated.

The daily preventative maintenance checklist has been designed for machine service and maintenance. Please photocopy this page and use the checklist when inspecting the machine.

DAILY PREVENTATIVE MAINTENANCE CHECKLIST

MAINTENANCE TABLE KEY

Y = Yes/Acceptable

N = No/Not Acceptable

R = Repaired/Acceptable

PREVENTATIVE MAINTENANCE REPORT

Date:_____

Owner: _____

Model No: _____

Serial No: _____

Serviced By: _____

COMPONENT	INSPECTION OR SERVICES	Y	N	R
Battery	Check electrolyte level.			
	Check battery cable condition.			
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 and leaks.			
Elevating Assembly	Inspect for structural cracks.			
Emergency Lowering System	Operate the emergency lowering valve and check for serviceability.			
Entire Unit	Check for and repair collision damage.			

COMPONENT	INSPECTION OR SERVICES	Y	N	R
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.			
Platform Deck and Rails	Check condition of deck.			
Tires and Wheels	Check for damage.			

SPECIFICATIONS

ITEM	SL26SL	SL30SL
Platform Size (Inside Toeboards)		
Standard	1,71 m x 3.66 m [67.5 in. x 144 in.]	1,71 m x 4,22 m [67.5 in. x 166.5 in.]
Slide Out Deck Extended	1,71 m x 4,55 m [67.5 in. x 179 in.]	N/A
Max. Platform Capacity		
Standard	680kg [1,500 lbs.]	590 kg [1,300 lbs.]
w/ Extension	680kg [1,500 lbs.]	N/A
On Extension	225kg [496 lbs.]	N/A
Max. No. of occupants		
Standard	5 people (wind speed 12.5m/s)	5 people (wind speed 12.5m/s)
on Extension	2 people (wind speed 12.5m/s)	N/A
Height		
Working Height	9.75 m [32 ft.]	10.97 m [36 ft.]
Max. Platform Height	7.93m [26 ft.]	9,14 m [30 ft.]
Min. Platform Height	1.5 m [59 in.]	1.5 m [59 in.]
Max. Drive Height	7.93 m [26 ft.]	9.14 m [30 ft.]
Dimensions		
Weight	Diesel: 3,550 kg [7,826 lbs.]	Diesel: 3400 kg [7,495 lbs.]
Overall Width, Standard	2,13 m [84 in.]	2,13 m [84 in.]
Overall Height	2,6 m [102.5 in.]	2,6 m [102.5 in.]
Overall Length, Standard	3.79 m [149 in.]	4,39 m [173 in.]
Surface Speed		
Platform Lowered HI / LO	0 to 5.0 km/h [0 to 3.1 m.p.h.]	0 to 5.0 km/h [0 to 3.1 m.p.h.]
Platform Raised.	0 to 0.8 km/h [0 to 0.5 m.p.h.]	0 to 0.8 km/h [0 to 0.5 m.p.h.]
System Voltage	12 Volt DC	12 Volt DC
Hydraulic Tank Capacity	74 l [19.5 US Gallons]	74 l [19.5 US Gallons]
Maximum Hydraulic System Pressure	210 bar [3000 psi]	210 bar [3000 psi]
Hydraulic Fluid		
Above 32° F [0° C])	ISO #46 (See Decal on Tank)	ISO #46 (See Decal on Tank)
Normal use, below 32° F [0° C])	ISO #32	ISO #32
Below 0° F [-17° C]	ISO #15	ISO #15
Lift System	One Single Stage Lift Cylinder	One Single Stage Lift Cylinder
Lift Speed	Raise, 21 sec./Lower, 32 sec.	Raise, 24 sec./Lower, 36 sec.
Platform Leveling	13° side to side, 9° Fore and Aft	13° side to side, 9° Fore and Aft
Power Source	20 HP (Diesel), 15Kw	20 HP (Diesel), 15Kw
Drive Control	Proportional	Proportional
Control System	Joystick Controller with Safety	Joystick Controller with Safety
	Interlock Trigger and Thumb Rocker	Interlock Trigger and Thumb Rocker
	Steering, Toggle Selector and	Steering, Toggle Selector and
	Emergency Stop Switches	Emergency Stop Switches
Horizontal Drive	Four Wheel, Hydraulic Motors	Four Wheel, Hydraulic Motors
Tyres (Standard)	26 x 12.00 - 12 Super Terra-grip with Trac Seal	26 x 12.00 - 12 Super Terra-grip with Trac Seal
ANSI Spec. Pneumatic Tire Pressure	Do Not Exceed 57 PSI	Do Not Exceed 57 PSI
Parking Brakes	Dual Spring Applied, Hydraulic Release, multi-disc	Dual Spring Applied, Hydraulic Release, multi-disc
Turning Radius (inside)	3,96 m [13 ft.]	3,96 m [13 ft.]
Maximum Gradeability	50% [27°]	50% [27°]
Wheel Base	2,54 m [100 in.]	2,54 m [100 in.]
Guardrails	1,7 m [67 in.] high, Fold Down with gate.	1,7 m [67 in.] high, Fold Down with gate.
Toeboard	152 mm [6 in.] High	152 mm [6 in.] High
Wheel Loading	2000Kg (4400Lb)	2000Kg (4400Lb)
Vibration of this machine does not exceed	2.5m/sec ²	2.5m/sec ²
Noise Pressure Level	107dB at Control Station	107dB at Control Station

*Specifications are subject to change without notice. Hot weather or heavy use may affect performance. Refer to the Service Manual for complete parts and service information.

This machine meets or exceeds all applicable requirements of OSHA and ANSI A92.6-1999.

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