

SKYJACK™

OPERATING MANUAL CE

This manual MUST be kept and stored with the aerial platform at all times.



SJIII Series E

The Conventionals
Models 6826E And 6832E

For Service please call **800 275-9522**
Skyjack Inc. Service Center 3451 Swenson Ave., St. Charles, IL. 60174 FAX 630 262-0006
For Parts in North America and Asia please call **800 965-4626**
Skyjack Inc. Parts Center 3451 Swenson Ave., St. Charles, IL. 60174 FAX 888 782-4825
For Parts & Service in Europe please call **44-1691-676-235**
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K.....FAX 44-1691- 676-239



OPERATING MANUAL CE

This manual MUST be kept and stored with the aerial platform at all times.

USE THE SERIAL NUMBER OF YOUR MACHINE TO DETERMINE THE CORRECT OPERATING MANUAL TO USE				
Manual Part #		118931AI	129924AB (ANSI/CSA)	129923AB (CE)
Release Date		May 2002	April 2006	April 2006
M O D E L S	6826 E	75643 & Below	75644 & Above	75644 & Above
	6832 E	83154 & Below	83155 & Above	83155 & Above

60304AF

The Safety Alert Symbol identifies important safety messages on machines, safety signs in manuals or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.



This Safety Alert Symbol means attention!

Become alert! Your safety is involved.



DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT

IMPORTANT indicates a procedure(s) essential for safe operation and which, if not followed, may result in a malfunction or damage to the machine.

Table of Contents

Read and Heed

Aerial Platform Definition	6
Purpose of Equipment	6
Use of Equipment	6
Manual	6
Operator	6
Optional Accessories	6
Scope of this Manual	6

Section 1 - About Your Aerial Platform

1.1 Major Assemblies	7
1.2 Platform	7
1.3 Operator's Control Box	7
1.4 Manual Storage Box	7
1.5 Lifting Mechanism	7
1.6 Maintenance Support	7
1.7 Base	7
1.8 Lowering Warning System (If Equipped)	8
1.9 Tilt Sensing System	8
1.10 Load Sensing System (If Equipped)	8
1.11 Serial Number Nameplate	8
1.12 Major Components	9
1.13 Standard and Optional Features	10
1.14 Operator Safety Reminders	11
1.15 Electrocution Hazard	11
1.16 Safety Precautions	12

Section 2 - Operation

2.1 General	15
2.1-1 Operator Qualifications	15
2.1-2 Operator's Responsibility for Maintenance	15
2.1-3 Maintenance and Inspection Schedule	15
2.1-4 Owner's Inspections	15
2.2 Component Identification	16
2.2-1 Main Power Disconnect Switch	16
2.2-2 Motion Alarm	16
2.2-3 Tilt Alarm	16
2.2-4 Base Controls	16
2.2-5 Parking Brake System	17
2.2-6 Battery Charger	17
2.2-7 Emergency Lowering System	17
2.2-8 Maintenance Support	18
2.2-9 AC Outlet on Platform	18
2.2-10 Operator's Control Box	19
2.2-11 Outrigger Controls	19
2.2-12 Folding Guardrail System	20
2.2-13 Lanyard Attachment Ring	20
2.2-14 Overload Warning Alarm	21

Table of Contents

Section 2 - Continued

2.3	Component Identification (Special Options)	22
2.3-1	1500W AC Inverter (If Equipped)	22
2.3-2	Powered Extension Deck Control Box (If Equipped)	22
2.4	Setup Procedure	23
2.5	Start Operation	25
2.5-1	Pre-Start Inspection	25
2.5-2	Operator's Checklist	25
2.5-3	To Raise the Platform using the Base Controls	26
2.5-4	To Lower the Platform using the Base Controls	26
2.5-5	To Raise the Platform using the Operator's Control Box	26
2.5-6	To Lower the Platform using the Operator's Control Box	27
2.5-7	To Drive Forward or Backward	28
2.5-8	To Steer	28
2.5-9	To Extend/Retract Manual Extension Deck	28
2.5-10	To Extend/Retract Powered Extension Deck (If Equipped)	29
2.5-11	Hydraulic Outriggers (If Equipped)	29
2.5-11a	Before Operation	29
2.5-11b	Extending the Outriggers	29
2.5-11c	Retracting the Outriggers	30
2.5-12	Electrical Inverter (If Equipped)	30
2.5-13	Shutdown Procedure	30
2.6	Loading/Unloading	32
2.6-1	Lifting	32
2.6-2	Driving	33
2.7	Winching and Towing Procedures	34
2.7-1	To Release the Parking Brake Manually	34
2.8	Emergency Lowering Procedure	35
2.9	Battery Maintenance	36
2.9-1	Battery Service Procedures	36
2.9-2	Battery Charging Operation	36
2.10	Tables	40
2.11	Labels	48

List of Tables

Table 2-1.	Specifications and Features	40
Table 2-2.	Owner's Annual Inspection Record	41
Table 2-3.	Floor Loading Pressure	42
Table 2-4.	Maximum Platform Capacities (Evenly Distributed)	44
Table 2-5.	Maintenance and Inspection Schedule	45
Table 2-6.	EC Declaration of Conformity	46

SKYJACK Inc. is continuously improving and expanding product features on its equipment, therefore, specifications and dimensions are subject to change without notice.

Aerial Platform Definition

A mobile device that has an adjustable position platform supported from ground level by a structure.

Purpose of Equipment

The SKYJACK SJIII series aerial platforms are designed to transport and raise personnel, tools and materials to overhead work areas.

Use of Equipment

The aerial platform is a highly maneuverable, mobile work station. Lifting and driving **MUST** be on a flat, level, compacted surface.

The aerial platform can be driven over uneven terrain only when the platform is fully lowered.

Manual

The operating manual is considered a fundamental part of the aerial platform. It is a very important way to communicate necessary safety information to users and operators. A complete and legible copy of this manual must be kept in the provided weather-resistant storage compartment on the aerial platform at all times.

Operator

The operator **MUST** read and completely understand both this operating manual and the safety panel label located on the platform and **ALL** other warnings in this manual and on the aerial platform. Compare the labels on the aerial platform with the labels found within this manual. If any labels are damaged or missing, replace them immediately.


Optional Accessories

The SKYJACK aerial platform is designed to accept a variety of optional accessories. These are listed under "Standard and Optional Features" in [Section 1.13](#).

Operating instructions for these options (**if equipped**) are located in [Section 2](#) of this manual.

For options not listed under "Standard and Optional Features", contact the SKYJACK Service Department at

 : 44 1691-676-235

 : 44 1691-676-239

Include the model and serial number for each applicable machine.

Scope of this Manual

a. **This manual** applies to the CE version of the SJIII Series aerial platform models listed on [Table 2-1](#).

- **Equipment identified** with "CE" meets the requirements for the European countries, i.e. Machinery Directive 98/37/EC and EMC Directive 89/336/EEC and the corresponding EN standards.

b. Operators are required to conform to national, state/province and local health and safety regulations applicable to the operation of this aerial platform.

1. About Your Aerial Platform

This section provides general information about your aerial platform. It describes the major components, standard and optional features, safety reminders and precautions.

1.1 Major Assemblies

The aerial platform consists of three major assemblies: the platform, the lifting mechanism and the base. An operator's control box is mounted on one of the platform guardrails. Auxiliary and emergency controls are located at the base.

1.2 Platform

The platform is constructed of a tubular support frame, a skid-resistant "diamond plate" deck surface and (1016 - 1100mm) hinged guardrails with (152mm) toe boards and mid-rails. The platform can be entered from the rear through an entry chain or optional spring-returned gate with latch. The platform is also equipped with an extension platform.

1.3 Operator's Control Box

A removable control box, mounted at the front right of the platform, contains controls for aerial platform motion and emergency stopping.

1.4 Manual Storage Box

This weather-resistant box is mounted inside the hydraulic cabinet door at the base or at the front of the platform. It contains the Operating Manual, the Operating/Maintenance and Parts Manual and other important documentation. The Operating Manual for this make and model of aerial platform **MUST** remain with the aerial platform and should be stored in this box.



1.5 Lifting Mechanism

The lifting mechanism is constructed of formed steel or tube sections making up a scissor-type assembly. The scissor assembly is raised and lowered by single-acting hydraulic lift cylinders with holding valves. A two-section pump, driven by an electric motor, provides hydraulic power to the lift cylinders.

1.6 Maintenance Support

A maintenance support is located inside the lifting mechanism. When properly positioned, it can support the scissor assembly and empty platform. The maintenance support **MUST** be used during inspection and maintenance or when repairs are being performed within the lifting mechanism.

1.7 Base

The base is a rigid, one-piece weldment which supports two side cabinets or two swing out trays.

- One tray contains the hydraulic and electrical components. The other tray contains battery charger and eight (8) 6 volt batteries.
- The front axle has two non-driven wheels, steerable by a hydraulic cylinder.
- The rear axle is a rigid axle with a self-locking differential and an integral gearbox.
- A variable speed 48 V DC electric motor and holding brake is flange mounted to the gearbox.

1.8 Lowering Warning System (If Equipped)

A lowering warning system automatically stops the lowering function before reaching the fully retracted position and sounds an alarm.

1.9 Tilt Sensing System

The tilt sensing system, located on the base of the aerial platform, is designed to prevent lifting or driving when the machine is on a slope greater than a predetermined limit. If in this situation, the platform must be fully lowered immediately.

1.10 Load Sensing System (If Equipped)

The load sensing system is a safety device that will prevent any normal movement of the aerial platform from a stationary working position after the rated load is reached and exceeded.

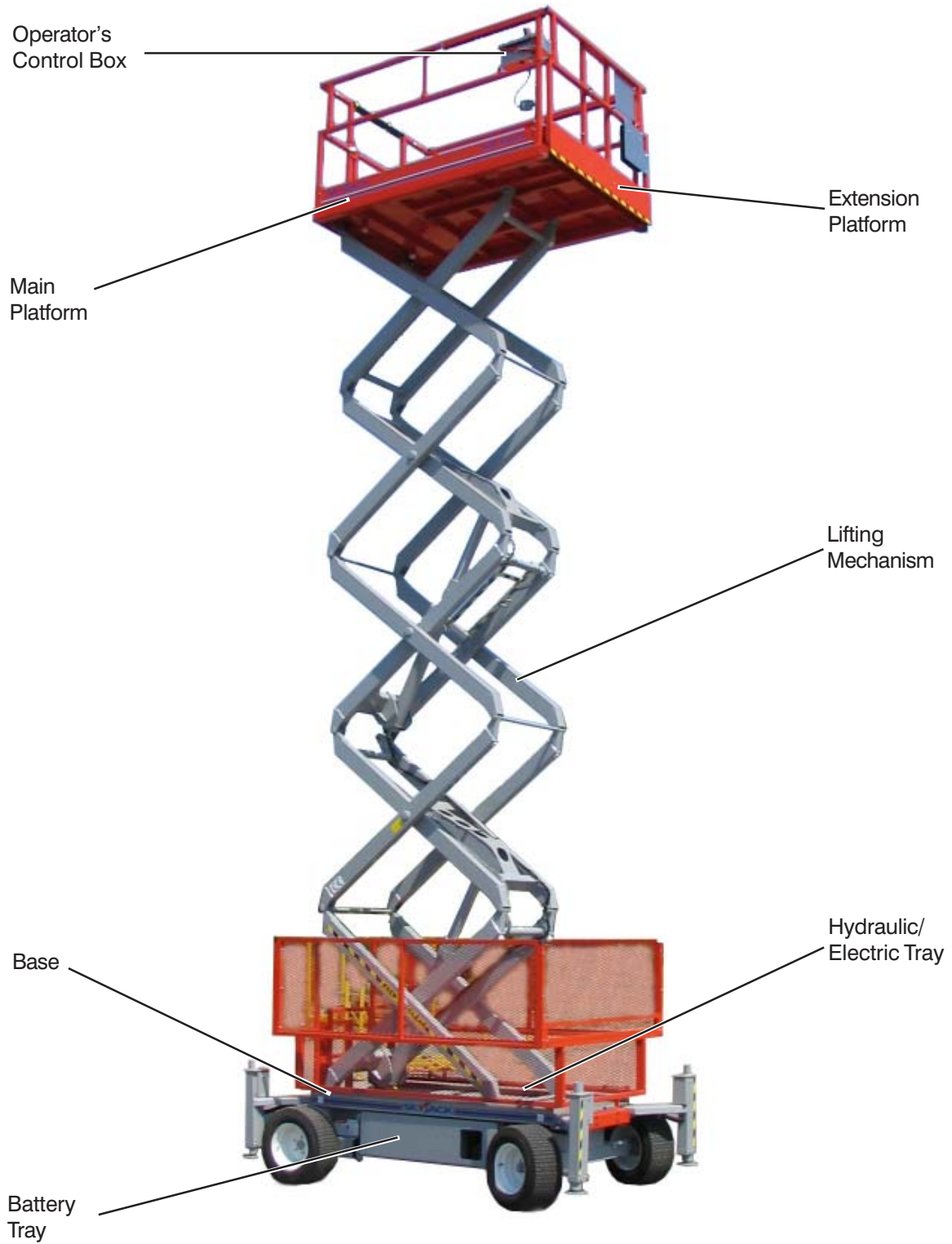
1.11 Serial Number Nameplate

The serial number nameplate, located at the rear of the machine, lists the following:

- Model number
- Serial number
- Machine weight
- Maximum drivable height
- Maximum capacities
- Maximum number of persons permissible on the platform
- Voltage
- System pressure
- Lift pressure
- Maximum platform height
- Maximum wheel load
- Maximum wind speed
- Maximum manual force
- Maximum incline

Use this information for proper operation and maintenance and when ordering service parts.

1.12 Major Components



*SKYJACK SJIII Series Aerial Platform
(Model 6832E shown)*

1.13 Standard and Optional Features

SJIII 68xx Series E – Conventionals – SPECIFICATIONS – CE

Standard Equipment
Descent alarm
Motion alarm
Joystick controller with proportional lift & drive functions *
Swing-out side trays
Spring-applied, electronically-released parking brakes
Manual lowering system with electric holding valves on lift cylinders
Operator horn
91.44 cm manual extension platform
AC outlet on platform
Lanyard attachment rings
Scissor guards
Urethane foam-filled tires
Optional Equipment
Spring-loaded full-height gate
Spring-loaded half-height gate
Flashing amber light
800W AC generator
Hydraulically-powered extension platform
Shop air hose to platform
Propane/gasoline or diesel engine package
Lowering warning system
Light duty pipe rack
Outriggers and outriggers alarm
1500W Electrical inverter

60425AA-CE

* Platform lowering and steering are not proportional.



Warning

Failure to comply with your required responsibilities in the use and operation of the aerial platform could result in death or serious injury!

1.14 Operator Safety Reminders

A study conducted by St. Paul Travelers showed that most accidents are caused by the failure of the operator to follow simple and fundamental safety rules and precautions.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this aerial platform is mandatory. The following pages of this manual should be read and understood completely before operating the aerial platform.

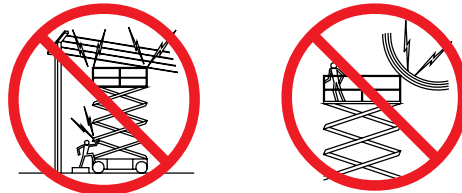
Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body.

Any modifications from the original design are strictly forbidden without written permission from SKYJACK Inc.

1.15 Electrocuting Hazard

This aerial platform is not electrically insulated. Maintain a Minimum Safe Approach Distance (MSAD) from energized power lines and parts as listed below. The operator **must allow** for the platform to sway, rock or sag. **This aerial platform does not provide protection from contact with or proximity to an electrically charged conductor.**

**DO NOT USE THE MACHINE AS A GROUND FOR WELDING.
DO NOT OPERATE THE MACHINE DURING LIGHTNING OR STORMS.**



DANGER

Avoid Power Lines

Minimum Safe Approach Distance

CE Guidance Note

“Avoidance of danger from Overhead Lines”

Adhere strictly to the governmental rulings and regulations applicable in your country.

FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!

60023AC-CE

1.16 Safety Precautions

Know and understand the safety precautions before going on to next section.



Warning

Failure to heed the following safety precautions could result in tip over, falling, crushing, or other hazards leading to death or serious injury

- **KNOW** all national, state or territorial/provincial and local rules which apply to your MACHINE and JOBSITE.
- **TURN** the main power disconnect switch off when leaving the machine unattended. Remove the key to prevent unauthorized use of the aerial platform.
- **WEAR** all the protective clothing and personal safety devices issued to you or called for by job conditions.

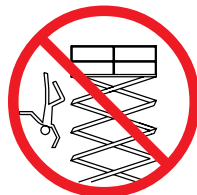
- **DO NOT** wear loose clothing, dangling neckties, scarves, rings, wristwatches or other jewelry while operating this lift.



- **AVOID** entanglement with ropes, cords or hoses.



- **AVOID** falling. Stay within the boundaries of the guardrails.



- **DO NOT** raise the aerial platform in windy or gusty conditions.



- **DO NOT** increase the lateral surface area of the platform. Increasing the area exposed to the wind will decrease machine stability.



- **DO NOT** drive or elevate the aerial platform if it is not on a firm level surface. Do not drive elevated near depressions or holes of any type, loading docks, debris, drop-offs and surfaces that may affect the stability of the aerial platform.



- **If operation in areas with holes or drop-offs is absolutely necessary**, elevated driving shall not be allowed. Position the aerial platform horizontally only with the platform fully lowered. After ensuring that all 4 wheels or outriggers (if equipped) have contact with level firm surface, the aerial platform can be elevated. After elevation, the drive function must not be activated.



- **Elevated driving** must only be done on a firm level surface.



- **DO NOT** ascend or descend a grade when elevated. When fully lowered, ascending or descending, only grades up to the rated maximum listed in Table 2-1 are permissible.



1.16 Safety Precautions (Continued)

Know and understand the safety precautions before going on to next section.

- **DO NOT** operate on surfaces not capable of holding the weight of the aerial platform including the rated load, e.g., covers, drains and trenches.

- **DO NOT** operate an aerial platform that has ladders, scaffolding or other devices mounted on it to increase its size or work height. It is prohibited.



- **DO NOT** exert side forces on aerial platform while elevated.



- **DO NOT** use the aerial platform as a crane. It is prohibited.



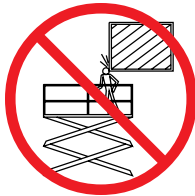
- **DO NOT** sit, stand or climb on the guardrails. It is prohibited.



- **DO NOT** climb on scissor arm assembly. It is prohibited.



- **BE AWARE** of overhead obstructions or other possible hazards around the aerial platform when driving or lifting.



- **DO NOT** raise the aerial platform while the machine is on a truck, fork lift or other device or vehicle.



- **BE AWARE** of crushing hazards. Keep all body parts inside platform guardrails.



- **DO NOT** lower the platform unless the area below is clear of personnel and obstructions.



- **ENSURE** that there are no personnel or obstructions in the path of travel, including blind spots.



- **BE AWARE** of blind spots when operating the aerial platform.

- **STUNT** driving and horseplay are prohibited.

- **ENSURE ALL** tires are in good condition and lug nuts are properly tightened.

- **DO NOT** alter or disable limit switches or other safety devices.

- **DO NOT** use the aerial platform without guardrails, locking pins and the entry gate/chain/bar in place.

- **DO NOT** exceed the rated capacity of the aerial platform. Do make sure the load is evenly distributed on the platform.

1.16 Safety Precautions (Continued)

Know and understand the safety precautions before going on to next section.

- **DO NOT** overload the platform. The lift relief valve does not protect against overloading when the platform is elevated.
- **DO NOT** attempt to free a snagged platform with lower controls until personnel are removed from the platform.
- **DO NOT** position the aerial platform against another object to steady the platform.
- **DO NOT** place materials on the guardrails or materials that exceed the confines of the guardrails unless approved by Skyjack.



Warning

Entering and exiting the aerial platform should only be done using the three points of contact system.

- Use only equipped access openings and ladders.
- Enter and exit only when the aerial platform is in the fully retracted position.

- **Do use three points of contact to enter and exit the platform.** Enter and exit the platform from the ground only. Face the machine when entering or exiting the platform.
- **Three points of contact** means that two hands and one foot **OR** one hand and two feet are in contact with the aerial platform or the ground at all times during entering and exiting.



Warning

An operator should not use any aerial platform that:

- does not appear to be working properly.
- has been damaged or appears to have worn or missing parts.
- has alterations or modifications not approved by the manufacturer.
- has safety devices which have been altered or disabled.

Failure to avoid these hazards could result in death or serious injury.

Jobsite Inspection

- Do not use in hazardous locations.
- Perform a thorough jobsite inspection prior to operating the aerial platform to identify potential hazards in your work area.
- Be aware of moving equipment in the area. Take appropriate actions to avoid collision.

2. Operation

This section provides the necessary information needed to operate the aerial platform. It covers the basic and optional components of the machine, operation and start procedures, winching and towing procedures, loading/unloading, tires specifications, labels, platform capacities and tables related to the proper maintenance of this aerial platform. It is important that the user reads and understands this section before operating the aerial platform.


2.1 General

In order for this aerial platform to be in good working condition, it is important that the operator follows the maintenance and inspection schedule referred to in this section.

2.1-1 Operator Qualifications

- **ONLY** trained and authorized personnel **SHALL** be permitted to operate an aerial platform.
- Safe use of this aerial platform requires the operator to understand the limitations and warnings, operating procedures and operator’s responsibility for maintenance. Accordingly, the operator **MUST** understand and be familiar with this operating manual, its warnings and instructions, manual of responsibilities and **ALL** warnings and instructions on the aerial platform.
- The operator **MUST** be familiar with employer’s work rules and related government regulations and be able to demonstrate the ability to understand and operate **THIS** make and model of aerial platform in the presence of a qualified person.

2.1-2 Operator’s Responsibility for Maintenance

 Warning
<p>Maintenance MUST be performed by competent personnel who are familiar with mechanical procedures.</p> <p>Death or serious injury could result from the use of an aerial platform that is not properly maintained or kept in good working condition.</p>

- The operator must be sure that the aerial platform has been properly maintained and inspected before using it.
- The operator must perform ALL the daily inspections found in [Table 2-5](#), even if the operator is not directly responsible for the maintenance of this aerial platform.

2.1-3 Maintenance and Inspection Schedule

- The inspection points covered in [Table 2-5](#) indicate the areas of the aerial platform to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.
- The actual operating environment of the aerial platform may affect the maintenance schedule.

 Warning
<p>Use original or equivalent to the original parts and components for the aerial platform.</p>

2.1-4 Owner’s Inspections

It is the responsibility of the owner to arrange daily, weekly, monthly and annual inspections of the aerial platform. Refer to [Table 2-5](#) for recommended maintenance and inspection areas and intervals. A record of annual inspection is kept on a label located on the scissor assembly. Refer to [Table 2-3](#) in this manual.

2.2 Component Identification

The following descriptions are for identification, explanation and locating purposes only.

2.2-1 Main Power Disconnect Switch

Main Power Disconnect Switch - This switch is located at the rear of the base.



Figure 2-1. Main Power Disconnect Switch

- 1. Main Power Disconnect Switch** - This switch, when in “OFF” position, disconnects power to all circuits. Switch **MUST** be in “ON” position to operate any circuit.

2.2-2 Motion Alarm

The aerial platform is equipped with a motion alarm. The alarm produces an audible sound accompanied by the amber light (if equipped) when any control function is selected.

2.2-3 Tilt Alarm

The aerial platform is equipped with a device which senses when the machine is out of level in any direction. When activated, it disables drive and lift functions of the aerial platform and an alarm produces an audible sound accompanied by the amber light (if equipped). This alarm activates once every 1.5 seconds. Lower platform completely, then reposition machine so that it is level before raising platform.

Note

If the tilt alarm sounds and the platform does not, or only partially raises, immediately lower the platform and ensure that the machine is on a firm **LEVEL** surface.

2.2-4 Base Controls

Base Control s - This control station is found on the rear of the base. It contains the following controls:

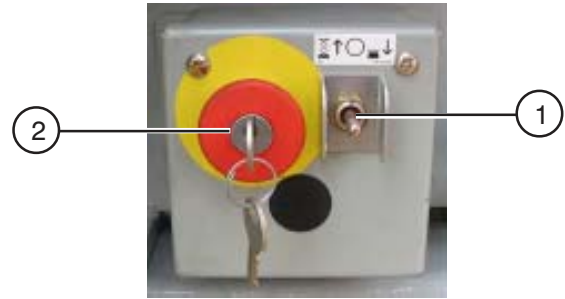


Figure 2-2. Base Control Box

- 1. Platform UP/DOWN Toggle Switch** - This toggle type switch raises or lowers the platform to a desired height.
- 2. Emergency Stop Button** - When depressed, this red “mushroom-head” push-button switch disconnects power to the control circuit.

Electrical Panel - This control station is located in the hydraulic/electric tray. It contains the following controls:



Figure 2-3. Electrical Panel

- 1. Circuit Breaker Resets** - In the event of a power overload or positive circuit grounding, the circuit breaker will pop out.
- 2. Buzzer Alarm** - This audible pulse alarm sounds when platform is being electrically lowered. On machines with certain options, this alarm will sound when any control function is selected.
- 3. Hourmeter** - This gauge records the accumulated time of operation of the aerial platform.

2.2-5 Parking Brake System

The parking brake system is located at the rear axle on the back of the machine.



Figure 2-4. Parking Brakes

Parking Brakes - The parking brakes are devices that are always mechanically engaged until hydraulically or manually released. Before towing or winching, the brakes have to be released manually. Refer to Section 2.7-1.

2.2-6 Battery Charger

This machine is battery-powered and is equipped with a battery charger.

Battery Charger - The charger is located inside the battery tray. Refer to Section 2.9-2 for details on charging operation.

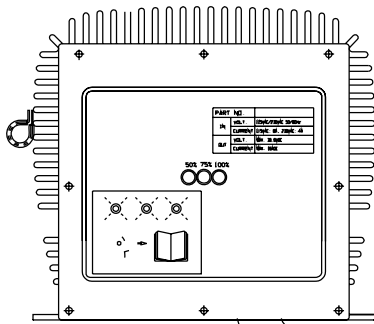


Figure 2-5. Battery Charger

2.2-7 Emergency Lowering System

The emergency lowering system allows platform lowering in the event of an emergency or an electrical system failure. Refer to Section 2.8 for the emergency lowering procedure. The system contains the following controls:

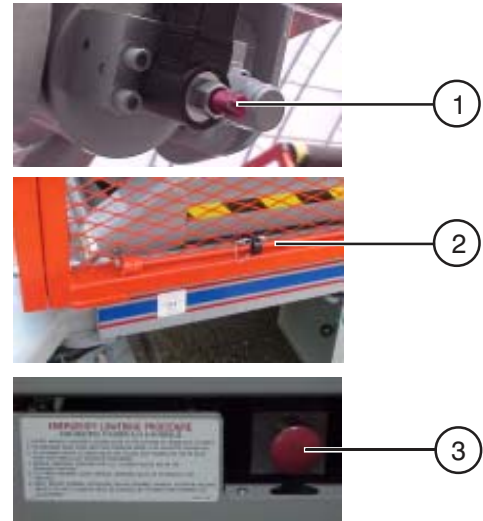


Figure 2-6. Emergency Lowering System

1. **Holding Valve Manual Override Knob** - Located on the holding valve at the bottom of each lift cylinder.
2. **Access Rod** - Located at the left side of the base.
3. **Emergency Lowering Valve** - Located at the rear of the hydraulic/electric tray.

2.2-8 Maintenance Support



Figure 2-7. Maintenance Support

1. **Maintenance Support** - The maintenance support is a safety mechanism designed to support the scissor assembly. When properly positioned it can support the scissor assembly and empty platform. The maintenance support **MUST** be used when inspection and/or maintenance is to be performed within the lifting mechanism.



Warning

The maintenance support must be used when inspection and/or maintenance or repairs are to be performed within the lifting mechanism. Failure to use this safety mechanism could result in death or serious injury.

Proper Use of Maintenance Support

- Remove all material from platform.
- Turn on main power disconnect switch.
- Raise platform until there is adequate clearance to swing down the maintenance support. Refer to [Section 2.5-3](#) on how to raise the platform using the base controls.
- Swing maintenance support down from storage bracket into a vertical position.
- Remove hands and arms from scissor assembly area.
- Lower platform until bottom end of maintenance support contacts the labeled cross bar and scissor assembly are supported by maintenance support. Refer to [Section 2.5-4](#) on how to lower the platform using the base controls.
- Turn off main power disconnect switch.

To Store the Maintenance Support

- Turn on main power disconnect switch.
- Raise platform until there is adequate clearance to swing up the maintenance support.
- Swing bar up into storage bracket.
- Lower platform.



Warning

Do not reach through the scissor assembly when the platform is raised without the maintenance support properly positioned. Failure to avoid this hazard could result in death or serious injury.

2.2-9 AC Outlet on Platform

AC Outlet on Platform - This outlet is a source of 110V/220V power on the platform.

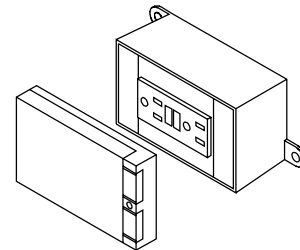


Figure 2-8. AC Outlet on Platform

2.2-10 Operator's Control Box

Operator's Control Box - This metal control station is mounted at the right front of the platform. It contains the following controls:

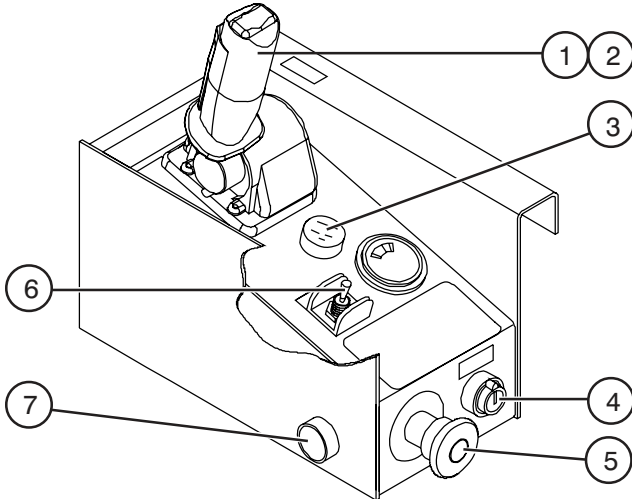


Figure 2-9. Operator's Control Box

1. **LIFT/DRIVE/STEER Controller** - This one-hand toggle-type lever controls lift/drive and steer motions. Internal springs return it to neutral when stick is released.
2. **LIFT/DRIVE Enable Switch** - This momentary switch energizes the proportional controller. It must be held depressed continuously while engaging either the lift/drive functions.
3. **Warning Alarm Indicator Light** - This light glows and an alarm sounds when an unsafe condition occurs.
4. **BASE/OFF/PLATFORM Select Key Switch** - This three-way selector switch allows the operator to turn off the power to the aerial platform or to activate either the base or platform controls.
5. **Emergency Stop Button** - When depressed, this red "mushroom-head" push-button switch disconnects power to the control circuit.

6. **LIFT/OFF/DRIVE Select Toggle Switch** - Selecting "OFF" position disconnects power from both lift and drive circuits. Selecting "LIFT" position energizes the lift circuit. Selecting "DRIVE" position energizes the drive circuit.
7. **Horn Push-Button** - Located on the side of the operator's control box, this push-button switch, when depressed, sounds an automotive-type horn.

2.2-11 Outrigger Controls

Outrigger Controls - Located on the operator's control box, these switches control each outrigger's extension and retraction.

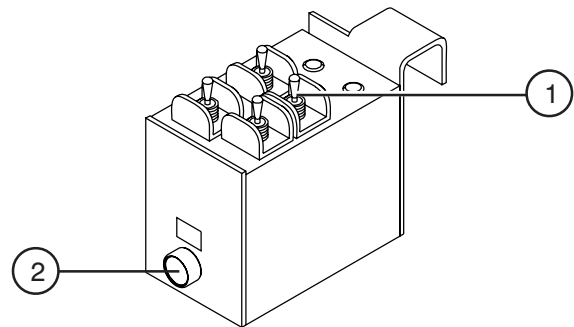


Figure 2-10. Outrigger Controls on Operator's Control Box

1. **Outrigger UP/DOWN Control Toggle Switches** - These switches control the extension and retraction of each individual outrigger.
2. **Enable Push-Button** - When depressed and held, this push-button switch brings power to the outrigger circuit.

2.2-12 Folding Guardrail System

Folding Guardrail System - When folded down, the folding guardrail system reduces the height of the retracted aerial platform for transporting only.

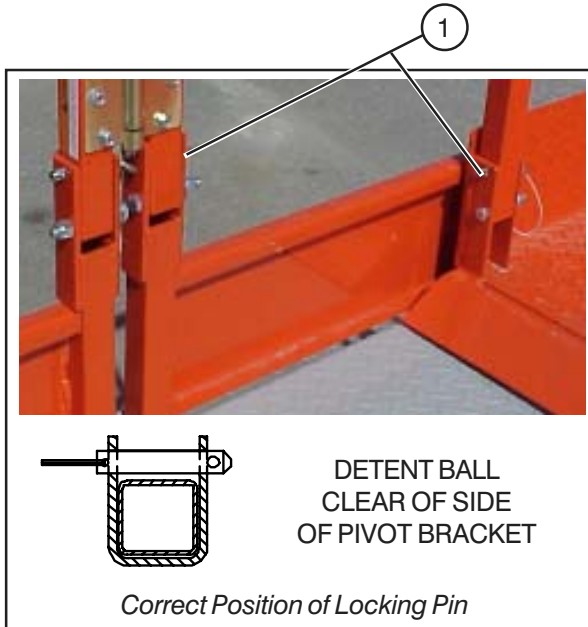


Figure 2-11. Folding Guardrail System

Warning
<p>The scissor assembly must be fully lowered before raising or lowering the guardrails.</p>

- Guardrail Locking Pin with Lanyard** - To fold the guardrail system down, remove the locking pin at each pivot point and lower each guardrail. To raise the guardrail system, swing up each guardrail and lock in place with the locking pins ensuring that the detent ball of each pin is all the way through and clear of the side of the pivot brackets (Figure 2-11).

Warning
<p>Before operating this aerial platform check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place. Death or serious injury could result if the guardrail system is not upright or properly locked.</p>

2.2-13 Lanyard Attachment Ring

Lanyard Attachment Ring - Use this ring as an attachment point for safety belt/harness tethers. DO NOT attach belts/harnesses to any other point on the platform. DO NOT use this ring to lift, anchor, secure or support the platform or any other apparatus or material.



Figure 2-12. Lanyard Attachment Ring

Warning
<p>The lanyard attachment ring is used for travel restraint, within the limits of the platform only. It is not a fall arresting device! Use as such could result in death or serious injury.</p>

2.2-14 Overload Warning Alarm

The aerial platform is equipped with a load sensing system (refer to [Table 2-4](#) for maximum platform capacities).

When 90% of the rated load is reached:

The red power indicator light of the operator's control box flashes.

When the rated load is reached:

An audible alarm sounds for approximately 2 seconds, 5 times per minute.

When the rated load is exceeded:

The flashing light and audible alarm continue and all electrically controlled machine movement functions stop. To resume normal operation, remove the overload from the platform.

If the machine during the operation comes in contact with an overhead obstruction:

The platform could become overloaded and all functions would stop. Release of the platform from this situation can only be effected by use of the emergency lowering system. Refer to [Section 2.8](#).

Note

After reaching full extension and upon lowering, the machine could stop and take an overload reading. Return the proportional controller to the neutral center position, and release the enable trigger switch.

If the machine is overloaded, the flashing light and audible alarm continue and all electrically controlled machine movement functions stop. To resume normal operation, remove the overload from the platform.

2.3 Component Identification (Special Options)

This following descriptions are for identification, explanation and locating purposes only of optional equipment.

2.3-1 1500W AC Inverter (If Equipped)

Inverter - The inverter is located on the base of the machine. It has the following controls:



Figure 2-13. 1500W AC Inverter

Note

The inverter operation is automatic. These controls do not need to be manipulated for normal operation.

1. **ON/OFF Switch** - This diagnostic slide switch activates or terminates inverter operation. It should remain in the “ON” position.
2. **Status LEDs** - These LEDs indicate the operating or fault status of the inverter .
3. **15 Amp Circuit Breaker** - In the event of a power overload or circuit grounding, the circuit breaker will pop out. Push the breaker back in to reset.
4. **GFCI Outlet** - During inverter operation, this outlet provides AC power.

2.3-2 Powered Extension Deck Control Box (If Equipped)

This metal control box is mounted on one of the extension platform guardrails. It contains the following controls:

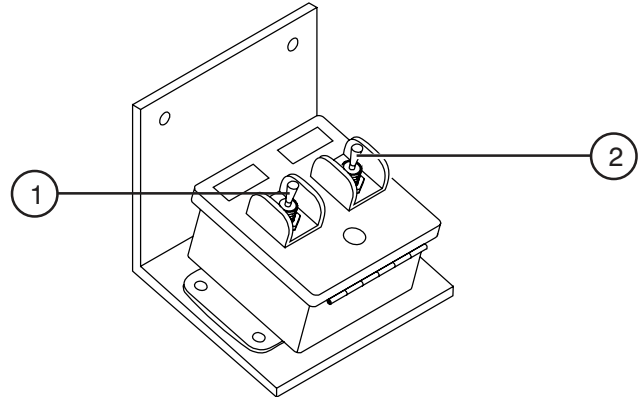



Figure 2-14. Powered Extension Deck Control Box

1. **Enable Switch** - This switch, when activated and held, allows the extension deck extend/retract switch functions to operate.
2. **EXTEND/RETRACT Switch** - This switch, when activated, extends or retracts the powered extension deck. Refer to [Section 2.5-10](#) on how to extend/retract a powered extension deck.

2.4 Setup Procedure

The following are descriptions of normal operating procedures. A qualified operator **MUST** read and completely understand these descriptions before operating this aerial platform.

1. Before a new aerial platform is put into operation it must be carefully inspected for any evidence of damage resulting from shipment and inspected periodically thereafter. Refer to [Table 2-5](#), Maintenance and Inspection Schedule.
2. Remove all packing materials and inspect for damage incurred during transport. Report any damage to delivery carrier immediately.
3. Inspect aerial platform thoroughly and remove any foreign objects.
4. Raise all guardrails to their upright position and lock in place with locking pins. Refer to [Section 2.2-12](#).



 Warning
<p>Before operating this aerial platform check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place. Death or serious injury could result if the guardrail system is not upright or properly locked.</p>


5. Ensure the main power disconnect switch is switched to the "OFF" position.
6. Remove the operator's control box from its shipping container and secure it to the guardrail at the right front of the platform.
7. Attach the control cable and power extension deck cable (**if equipped**) to the machine's control cable.

8. Move the aerial platform to a firm, level test area where the platform can be later vertically extended to its maximum working height. If the aerial platform is to be pushed, towed or winched, refer to [Section 2.7](#) for winching and towing procedures.
9. Unlock and swing out the hydraulic/electric tray.
10. Check the tank's hydraulic oil level (scissor assembly must be fully lowered). Level should be at or slightly above the top mark on the sight glass.

Note
<p>If required, add a quality grade hydraulic oil such as ATF Dexron III (ESSO). Never mix hydraulic oils.</p>

11. Close the hydraulic/electric tray.
12. Unlock and swing out the battery tray.
13. Check the battery fluid level. If fluid level is not at FULL mark on the battery, add distilled or demineralized water only.

 Warning
<p>Explosion Hazard Keep flames and sparks away. Do not smoke near batteries.</p> 

 Warning
<p>Battery Acid Is Extremely Corrosive Wear proper eye and facial protection as well as appropriate protective clothing. If contact occurs, immediately flush with cold water and seek medical attention.</p>

14. Connect the AC battery charger cord to the proper AC voltage source and charge the batteries. Refer to [Section 2.9-1](#) for battery charging procedures. When charger cycle is complete, disconnect battery charger AC cord.
15. Close the battery tray.

16. From the base controls, carefully raise the platform. Refer to [Section 2.5-3](#) for procedure on how to raise the platform.
17. Unlatch and carefully swing down the maintenance support. Refer to [Section 2.2-8](#) for procedure to properly position the maintenance support.

**Warning**

The maintenance support must be used during inspection and maintenance or repairs are to be performed within the lifting mechanism. Failure to avoid this hazard could result in death or serious injury.

18. From the base controls, carefully lower the platform until the scissor assembly is firmly resting on the maintenance support. For procedure on how to lower the platform refer to [Section 2.5-4](#).
19. Inspect all hoses, fittings, wires, cables, valves, etc. for leaks, loose or missing parts, hidden damage and foreign material.
20. Raise the platform until there is an adequate clearance to swing up maintenance support and lock in position.
21. Raise the platform to the maximum extension height.

**Warning**

Be aware of overhead obstructions or other possible hazards around the machine when lifting.

22. Fully lower the platform.

2.5 Start Operation

Carefully read and completely understand ALL of this Operating Manual and ALL warnings and instruction labels on the aerial platform.

Before operating this aerial platform, perform the pre-start inspection and the tasks on the operator's check-list as described in this section.

2.5-1 Pre-Start Inspection

It is the responsibility of the operator to perform a pre-start inspection.

The pre-start inspection is a visual inspection performed by the operator prior to each work shift.

1. Ensure that there are no obstacles around the aerial platform and in the path of travel such as holes, drop offs, debris, ditches and soft fill.
2. Ensure that there are no electrical cords and hoses in the path of travel.
3. Ensure that the batteries are fully charged. Disconnect the AC charger cord from the external power source.
4. Ensure that both battery and hydraulic/electric trays are closed and locked.
5. Ensure that the free-wheeling valve is fully closed.
6. Make sure all guardrails and lock pins are in place and locked in position.
7. Make sure you do not climb or descend a grade steeper than rated maximum listed in [Table 2-1](#). Elevated driving must only be done on firm level surfaces.
8. Check overhead clearances.



Warning

Do not use or operate the aerial platform if any component appears to be altered, damaged or if it is tagged or locked out for non-use or repair. Operation of aerial platform while in any of the above states may result in death or serious injury.



Warning

Do not operate this aerial platform without proper authorization and training. Failure to avoid this hazard could result in death or serious injury.

2.5-2 Operator's Checklist

It is the user's responsibility to inspect the machine operation before the start of each shift:

1. Operating and emergency controls.
2. Safety devices and limit switches.
3. Personal protective devices.
4. Tires and wheels.
5. Outriggers (**if equipped**) and other structures.
6. Air, hydraulic and fuel system(s) for leaks.
7. Loose or missing parts.
8. Cables and wiring harnesses.
9. Placards, warnings, control markings and operating manuals.
10. Guardrail system including locking pins.
11. Battery fluid level.
12. Hydraulic reservoir level.
13. Coolant level (**if equipped**).
14. Parking brakes (**check operation**).



Warning

An operator should not use any aerial platform that:

- does not appear to be working properly.
- has been damaged or appears to have worn or missing parts.
- has alterations or modifications not approved by the manufacturer.
- has safety devices which have been altered or disabled.

Failure to avoid these hazards could result in death or serious injury.

2.5-3 To Raise the Platform using the Base Controls



Warning

Be aware of overhead obstructions or other possible hazards around the machine when lifting.



Warning

Ensure that you maintain three points of contact when using the ladder to mount/dismount the platform.

1. Use the ladder of the aerial platform to access the aerial platform deck.
2. Close the gate/chain.
3. On the operator's control box, select "BASE" position with BASE/OFF/PLATFORM select key switch.
4. Ensure the emergency stop button is pulled out.
5. Dismount the platform using the ladder.
6. Turn the main power disconnect switch to "ON" position.
7. Pull out the emergency stop button located on base control box.

8. Raise the platform by selecting "↑" (UP) with platform UP/DOWN toggle switch from the base controls.

2.5-4 To Lower the Platform using the Base Controls

1. Lower the platform by selecting "↓" (DOWN) with platform UP/DOWN toggle switch from the base controls.

Lowering Warning System - A lowering warning system automatically stops the lowering function before reaching the fully retracted position and sounds the alarm. After the operator has released the down controls and taken time to check that no person is near the scissors, the lowering function can be reactivated.

2.5-5 To Raise the Platform using the Operator's Control Box

1. Turn the main power disconnect switch to "ON" position.
2. Ensure the emergency stop button is pulled out.



Warning

Ensure that you maintain three points of contact when using the ladder to mount/dismount the platform.

3. Use the ladder of the aerial platform to access the aerial platform deck.
4. Close the gate/chain.




Warning

Be aware of overhead obstructions or other possible hazards around the machine when lifting.

5. Ensure the emergency stop button is pulled out.
6. Select "PLATFORM" position with BASE/OFF/PLATFORM select key switch.
7. Select "LIFT" position with LIFT/OFF/DRIVE select toggle switch.

8. Activate and hold the enable trigger switch by squeezing it towards the proportional controller.
9. Push the proportional controller handle forward until desired height is reached.
10. Return the proportional controller to the neutral center position to stop. Release the enable trigger switch.

 Warning
To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location and/or elevation.

Note
If the tilt alarm sounds and the platform does not, or only partially raises, immediately lower the platform and ensure that the machine is on a firm LEVEL surface.

2.5-6 To Lower the Platform using the Operator's Control Box

 Warning
Do not lower the platform unless the area below is clear of personnel and obstructions.

1. Ensure the emergency stop button is pulled out.
2. Select "PLATFORM" position with BASE/OFF/PLATFORM select key switch.
3. Select "LIFT" position with LIFT/OFF/DRIVE select toggle switch.
4. Activate and hold the enable trigger switch by squeezing it towards the proportional controller.
5. Pull the proportional controller handle backward until desired height is reached.

Note
Lowering is not proportional.

Lowering Warning System - A lowering warning system automatically stops the lowering function before reaching the fully retracted position and sounds the alarm. After the operator has released the down controls and taken time to check that no person is near the scissors, the lowering function can be reactivated.

6. Return the proportional controller to the neutral center position to stop. Release the enable trigger switch.

 Warning
To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.

2.5-7 To Drive Forward or Backward**Warning**

Be aware of blind spots when operating the aerial platform.

**Warning**

Ensure that there are no personnel or obstructions in the path of travel, including blind spots.

1. Ensure the emergency stop button is pulled out.
2. Select "PLATFORM" position with BASE/OFF/PLATFORM select key switch.
3. Select "DRIVE" position with LIFT/OFF/DRIVE select toggle switch.
4. Activate and hold the enable trigger switch by squeezing it towards the proportional controller.
5. Push or pull the controller handle forward or backward to the desired speed and direction of platform travel.
6. Return the proportional controller to the neutral center position to stop. Release the enable trigger switch.

**Warning**

To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.

2.5-8 To Steer

1. Select "DRIVE" position with LIFT/OFF/DRIVE select toggle switch.
2. Press the rocker on top of the controller handle in the direction you wish to steer.

**Warning**

Steering is not proportional. It is not self-centering and will remain in the selected orientation. Driving and steering may be active at the same time.

2.5-9 To Extend/Retract a Manual Extension Deck

1. To extend/retract the manual extension deck, remove the retaining locking pins and push/pull the extension deck using the push bar or sliding handrails to one of four or five desired locking positions.
2. Upon extension or retraction, reinsert the locking pins. Insert the pin on one side of the machine in front of the upright bar and the pin on the other side of the machine behind the upright bar to prevent accidental movement, in either direction, of the manual extension platform during travel or transport. Refer to [Figure 2-15](#) for a configuration example.

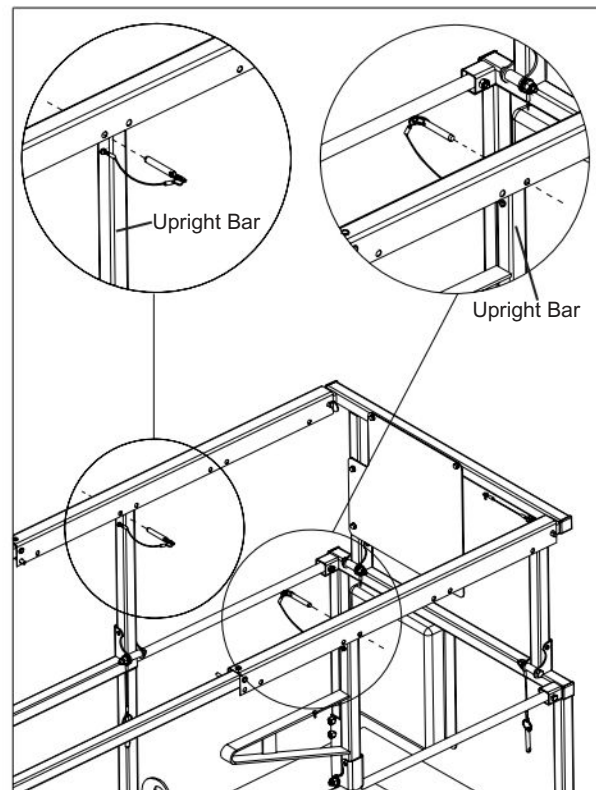



Figure 2-15. Variable Position Manual Extension Deck

2.5-10 To Extend/Retract Powered Extension Deck (If Equipped)

1. To extend the powered extension deck, ensure the emergency stop button is pulled out.
2. On the operator’s control box, select “LIFT” position with LIFT/OFF/DRIVE select toggle switch.
3. On the powered extension deck control box, press and hold the enable switch, then push the EXTEND/RETRACT switch to the “↑” (EXTEND) position until desired extension is reached. Release switch to stop.
4. To retract the platform, ensure the emergency stop button is pulled out and select “LIFT” position using the LIFT/OFF/DRIVE select toggle switch.
5. On the powered extension deck control box, press and hold the enable switch, then push the EXTEND/RETRACT switch to the “↓” (RETRACT) position until desired extension is reached. Release switch to stop.

 <b style="color: red;">Warning
<p>To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.</p>

2.5-11 Hydraulic Outriggers (If Equipped)

These devices are mounted to the four corners of the base. When properly positioned, they increase the stability of the aerial platform.

2.5-11a Before Operation

1. Check overhead clearances and ground obstructions. This will require the operator to move around the aerial platform.
2. Check that the platform is fully lowered. (The outrigger controls are not functional when the platform is raised.)

3. Check that the supporting surface under the tires and outrigger pads is level, firm and capable of supporting aerial platform and rated load. **DO NOT** place outrigger pad on a street drain, manhole cover or other unsupported surface.

2.5-11b Extending the Outriggers

1. Ensure the emergency stop button is pulled out.
2. Select “PLATFORM” position with BASE/OFF/PLATFORM select key switch.
3. Select the “LIFT” position with LIFT/OFF/DRIVE select key switch..

Note
<p>Check that the platform is fully lowered. The outrigger controls are not functional when the platform is raised.</p>

4. While holding the outrigger enable switch, extend each outrigger using the individual outrigger UP/DOWN control toggle switches until the platform is fully supported by the outriggers and is level. The tilt alarm produces an audible sound while the platform is being leveled and remains until the platform is level.
5. **Check that each outrigger pad is in firm contact with a suitable supporting surface!** Make adjustments if necessary using the independent outrigger controls.

Note
<p>Each outrigger pad must be in firm contact with the ground for most aerial platform functions to work.</p>

Note
<p>Drive functions are disabled if the outriggers are in any position other than fully retracted.</p>

**Warning**

If alarm sounds during operation, the aerial platform is not level or an outrigger does not have firm ground contact. Lower the platform immediately! Make the necessary adjustments to level the aerial platform.

2.5-11c Retracting the Outriggers

1. Ensure the emergency stop button is pulled out.
2. Select "PLATFORM" position with BASE/OFF/PLATFORM select key switch.
3. Select the "LIFT" position with LIFT/OFF/DRIVE select key switch.
4. Lower the aerial platform.
5. Select and hold the outrigger enable toggle switch in either the "UP" or "DOWN" position, then push and hold pairs (front or rear) of outrigger UP/DOWN toggle switches to "UP" position until the outriggers are fully retracted.

Note

Limit switches are used to protect the outriggers from being damaged. If aerial platform will not drive, visually check to see that ALL outriggers are fully retracted.

2.5-12 Electrical Inverter (If Equipped)

1. Turn the main power disconnect switch to the "ON" position.
2. Make sure the ON/OFF switch of the inverter is "ON."
3. Inverter activation is indicated by a glowing green LED on the front of the inverter.

**Caution**

The main power disconnect switch **MUST** be turned OFF at the end of the shift or the batteries will drain.

2.5-13 Shutdown Procedure

1. Completely lower the platform.
2. Push in emergency stop button located on operator's control box.
3. Turn BASE/OFF/PLATFORM select key switch to "OFF" position and remove the key from the control box.

**Warning**

Ensure that you maintain three points of contact when using the ladder to mount/dismount the platform.

4. Dismount the platform using the ladder.
5. Push in emergency stop button located on base controls and remove the key (if equipped).
6. Turn main power disconnect switch to "OFF" position.

2.6 Loading/Unloading

KNOW all national, state or territorial/provincial and local rules which apply to your loading/unloading of aerial platforms.

Only qualified personnel shall operate machinery during loading/unloading.

Be sure vehicle capacity and loading equipment hoists, chains, straps, etc. are sufficient to withstand maximum aerial platform weight.

The transport vehicle must be parked on a level surface and must be secured to prevent rolling while the aerial platform is being loaded or unloaded.

2.6-1 Lifting

When it is necessary to lift the Skyjack aerial platform the following conditions must be met:

- The platform must be fully lowered.
- The main power disconnect switch must be in the "OFF" position.
- The hydraulic/electric and battery trays must be closed and securely latched.
- The extension deck must be retracted and secured.
- The control box must be secured to the railings or removed.
- The platform must be cleared of all personnel, tools, and materials.
- The lifting/rigging may be attached to all four lifting points as illustrated in Figure 2-17.

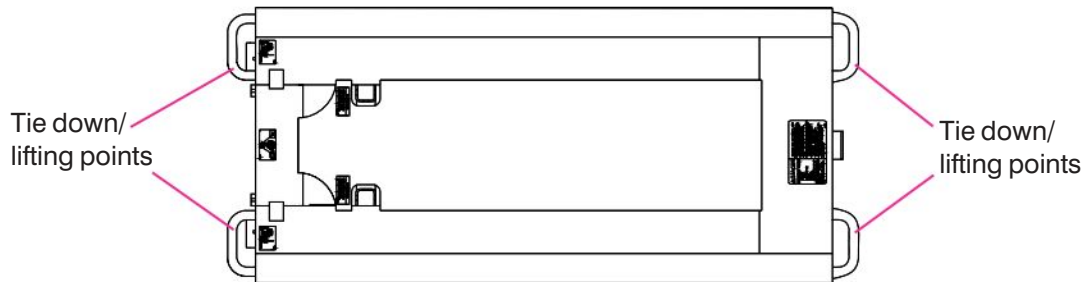


Figure 2-16. Tie Downs/Lifting Points

Note

The mass of the aerial platform is as per [Table 2-1](#). The center of gravity is approximately located in the middle of the aerial platform, front to back and side to side, as illustrated in [Figure 2-17](#). Vertically, the center of gravity is approximately just above the base chassis.

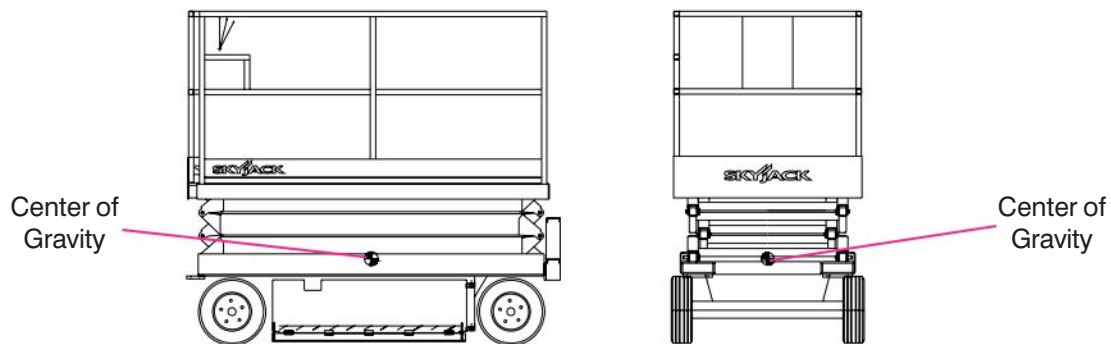


Figure 2-17. Center of Gravity

Note

The aerial platform can be lifted with a forklift from the sides but Skyjack does not recommend this use. Lift with forks in designated pockets as illustrated in Figure 2-18.

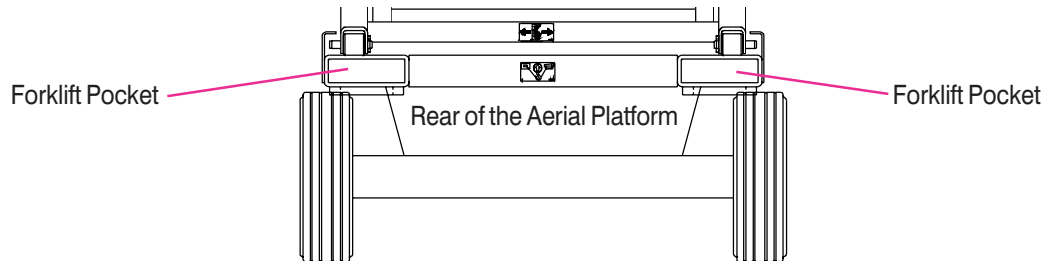


Figure 2-18. Forklift Pockets

2.6-2 Driving

When driving the aerial platform:


- Ramp or dock capacity should be sufficient to withstand maximum machine weight.
- Ramp should be equipped with side guards to prevent inadvertent fall from the ramp.
- Incline should not exceed machine gradeability (refer to [Table 2-1](#)).
- Aerial platform brakes should be checked for proper operation.
- Aerial platform speed should be on high torque setting (if equipped) and batteries fully charged (electric machines).


 **Warning**


When transporting, the aerial platform must be secured to the truck or trailer deck. Tie downs are available as illustrated in [Figure 2-16](#).


2.7 Winching and Towing Procedures

This section provides the operator with procedures about towing and winching and on how to manually release the parking brake.

 Warning
<p>Ensure platform is fully lowered before winching or towing. Sudden motion could cause the aerial platform to become unstable. Death or serious injury could result.</p>

 Warning
<p>In emergency situations where machine functions are not available and lowering is impeded by an obstacle, the utmost care must be taken to move the machine far enough to clear the obstacle. In such cases operation must be extremely smooth with no sudden movements and must not exceed a speed of 50mm/sec.</p>

 Warning
<p>When pushing, towing or winching, do not exceed 3.2 km/h.</p>

 Warning
<p>Do not push, tow or winch vehicle on to a slope, or brake the towing vehicle rapidly. Do not pull the aerial platform down an incline towards a winch.</p>

2.7-1 To Release the Parking Brake Manually



Figure 2-19. Parking Brake

Parking Brake - The brake **MUST** be manually disengaged for pushing, towing or winching.

 Warning
<p>Do not manually disengage the parking brakes if the aerial platform is on a slope.</p>

1. Make sure that the aerial platform is on level ground. Chock or block the wheels to keep aerial platform from rolling.
2. Turn main power disconnect switch to "OFF" position.
3. Pull handle (item 1) firmly outwards then rotate handle up to OFF position. A safety switch on the brake disconnects power from the control system when brake is manually disconnected.
4. Remove the wheel chocks or blocks, then push, tow or winch the aerial platform to the desired location.
5. Position aerial platform on a firm level surface. Chock or block the wheels to prevent the aerial platform from rolling.
6. To restore brake and normal functions, rotate handle downwards to ON position and release handle.

2.8 Emergency Lowering Procedure

This section guides the operator on how to use the emergency lowering system. This system allows platform lowering in the event of an emergency or an electrical system failure.



Warning

Keep clear of scissors mechanism when using emergency lowering valve.

1. Remove any obstructions from a descending platform.
2. The extension platform(s) may need to be retracted or the platform may need to be moved to clear the obstruction. Refer to [Section 2.7, Winching and Towing Procedures](#), for proper instructions.

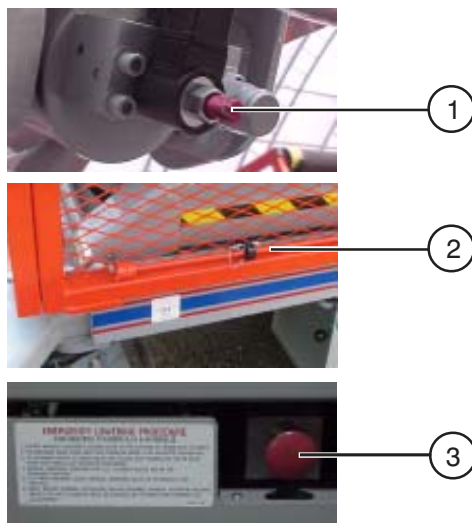


Figure 2-20. Emergency Lowering System

3. Locate the holding valve manual override knobs (item 1) at the base of each lift cylinder. Depress and turn counterclockwise. If necessary, use the access rod (item 2) that is located on the base of the machine.

4. On the hydraulic tray, pull out and hold the emergency lowering valve (item 3) to lower the platform.
5. To restore normal operation, depress and turn the holding valve manual override knobs clockwise.

2.9 Battery Maintenance

This section provides the operator with procedures on how to service and charge the battery. This also provides charger operation instructions.

2.9-1 Battery Service Procedures

 **Warning**

Explosion Hazard
Keep flames and sparks away.
Do not smoke near batteries.



 **Warning**

Battery Acid Is Extremely Corrosive
Wear proper eye and facial protection as well as appropriate protective clothing.
If contact occurs, immediately flush with cold water and seek medical attention.

1. Turn main power disconnect switch to "OFF" position.
2. Check battery case for damage.
3. Check battery fluid level in each battery. If plates are not covered by at least 1/2" (13mm) of solution, add distilled or demineralized water.
4. Clean battery terminals and cable ends thoroughly with a terminal cleaning tool or wire brush.
5. Make sure all battery connections are tight.
6. Replace any battery that is damaged or incapable of holding a lasting charge.
7. Do not use any batteries other than flooded lead-acid batteries of the proper AH rating.

 **Warning**

Use original or equivalent to the original parts and components for the aerial platform.

2.9-2 Battery Charging Operation

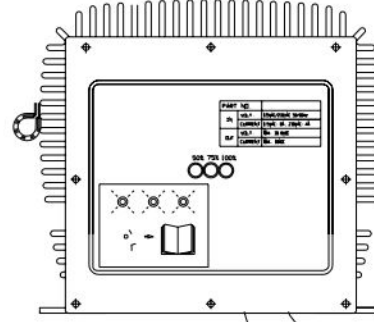


Figure 2-21. Battery Charger

Operation of Charger

 **Danger**


Risk of electric shock. Do not immerse the charger in water. Though the charger is highly resistant to water, it is not designed for immersion and an electric shock can occur.

1. Provide adequate ventilation for the batteries and charger. The convection cooled design requires access to cooling air for proper operation. Do not allow blankets or other materials to cover the charger. Although the charger protects itself against overheating, the charger cooling fins should be cleaned if clogged with debris for best performance.


 **Warning**


There could be a spark during charging. Be careful when using fuels, solvents or other flammables near the charger or batteries.


2. Connect the power supply cord to a properly grounded 100V/50 or 60Hz, 115V/ 60Hz, or 230V/ 50 or 60Hz socket. This charger automatically senses and adjusts to the AC input voltage range.

 Caution
When changing the input voltage wait until all the LEDs are OFF or wait a minimum of 20 seconds before switching on the new voltage.

- The charging time is affected by numerous factors including battery Amp-Hour capacity, depth of discharge, battery temperature, and battery condition (new, old or defective). Batteries larger than 240 Ah can be recharged but will take longer.

 Danger
Do not disconnect the DC output wires near the batteries when the charger is ON. The resulting arcing could cause the batteries to explode. If the charger must be disconnected, first disconnect the AC power supply cord from its outlet, then disconnect the charger DC connections.

 Danger
Risk of an electric shock. Do not touch un-insulated parts of the charger output wires, battery connector, or battery terminals.

 Danger
Visually and manually inspect to verify the DC output wires and terminals are in good working condition before each use.

- The charger will start automatically within four to six seconds. The charger will start even with severely discharged batteries (down to 1V terminal voltage). Once charging starts, the LEDs indicate the charging progress.

Charging State LED

State of charge	1 ST LED	2 ND LED	3 RD LED
0 to 50%	Blinking	Off	Off
50% to 75%	On	Blinking	Off
75% to 100%	On	On	Blinking
100%	On	On	On

60133AA

The charger goes into an equalizing charge mode after the batteries are charged and all 3 LEDs are "ON". The charger will continue to charge at a low current then shut-off automatically when complete.

If all 3 LEDs blink together, there is a problem.

Take proper action according to the following instructions:

3 LEDs blink once simultaneously:

Output connection error. Check the battery and charger connection. The output may not be connected to the batteries or the connections to the batteries may have corroded or loosened. The output may be shorted due to improper connection to the batteries or pinched wires. The output may be connected in reverse polarity to the batteries. The charger is not damaged by any of these problems.

3 LEDs blink twice simultaneously:

The charger is indicating that the AC voltage is too low or too high. Check the AC input voltage.

3 LEDs blink three times simultaneously:

Charger is overheated. No action required. When the charger cools, charging will re-start automatically. Check and correct for dirt or other debris on charger that may be reducing cooling.

3 LEDs blink four times simultaneously:

Input or output over current. No action required, charger will correct and re-start automatically.

100% LED lamp blinks:

Charger 18 hour timer has timed out due to battery problem.

Batteries do not fully charge.

If the batteries are charged overnight, make sure the AC supply is not being switched off at night with other building items. Check battery condition and for dead cells or reduced capacity. Replace charger only if other problems are not found.

The AC line circuit breaker or fuse is blown.

A defective circuit breaker or fuse, an overloaded circuit, or a charger problem can cause this condition. Try connecting the charger to a different AC outlet (on a different circuit) in the building. If the AC supply checks good, the charger should be replaced.

EE-Rated Machines**Warning**

**Do not charge batteries in hazardous area !
The EE-rating of a machine does not include the
charging of batteries.**

1. Move the aerial platform to an area designated for battery charging. Refer to NFPA 505 for charging set-up. NFPA 505 is a publication of the **National Fire Protection Association, Inc.**, Batterymarch Park, Quincy, MA 02269 (USA).
2. Connect battery charger DC plug into the battery plug at the rear of the base.
3. Charge batteries. Refer to [Section 2.9-2](#) for battery charging operation. When charge cycle is completed, disconnect charger plug from battery tray.

Table 2-1. Specifications and Features

MODEL		6826E	6832E
Weight *		2658 kg	2940 kg
Width		1.73 m	1.73 m
Length		2.52 m	2.52 m
Platform size		1.53 x 2.05 m	1.53 x 2.05 m
Height	Elevated working	9.75 m	11.60 m
	Elevated platform	7.9 m	9.7 m
	Stowed fixed railing	2.37 m	2.51 m
	Stowed platform	1.27 m	1.40 m
	Drive	FULL	7.9 m
Speed	Normal drive (max)	3.2 km/h	3.2 km/h
	Elevated low drive (max)	1 km/h	1 km/h
	Lift (rated load)	59 sec.	59 sec.
	Lower (rated load)	57 sec.	50 sec.
Gradeability		25%	25%
Tires **		23 x 10.5 x 12 Foam filled	23 x 10.5 x 12 Foam filled
Tire contact pressure (max)		***	***

60346AF-CE

* Weight with standard 0.91m extension platform.

(Refer to nameplate for machines with 1.52m extension platform, CE models and other options.)

** Fill Hardness: 55 durometer.

*** Refer to serial nameplate.

Table 2-2. Owner's Annual Inspection Record

Model Number _____				Serial Number _____				
Recording Date								
Recording Year #	1	2	3	4	5	6	7	8
Owner's Name								
Inspected By								

60141AA

As described earlier in this section, this decal is located on the scissor assembly. It must be completed after an annual inspection has been completed. Do not use the aerial platform if an inspection has not been recorded in the last 13 months.

Table 2-3. Floor Loading Pressure

MODEL		TOTAL MACHINE WEIGHT	TOTAL MACHINE LOAD		
			Wheel	LCP**	OUP**
		kg	kg	KPa	(kg/m ²)
6826E	min*	2658	1063	1052.83	612.26
	max*	3225	1290	1070.76	742.86
6826E Outrigger Pads	min*	2849	N/A	611.22	561.57
	max*	3416		732.88	673.35
6832E	min*	2794	1118	1068.00	643.61
	max*	3293	1317	1085.23	758.54
6832E Outrigger Pads	min*	2985	N/A	640.42	588.40
	max*	3484		747.48	686.76

60344AB-CE

* **min** - Total machine weight with no options

max - Machine weight + all options + full capacity

** **LCP - Locally Concentrated Pressure** is a measure of how hard the machine presses on the areas in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values above.

OUP - Overall Uniform Pressure is a measure of the average load the machine imparts on the whole surface directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

NOTE:

The **LCP** or **OUP** that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

Floor Loading Pressure

Local Concentrated Pressure (LCP):

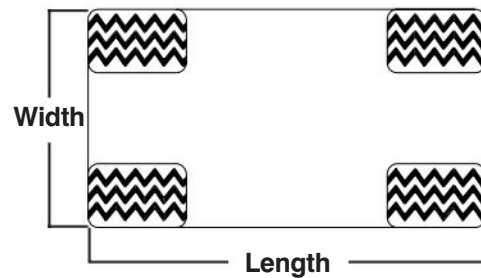
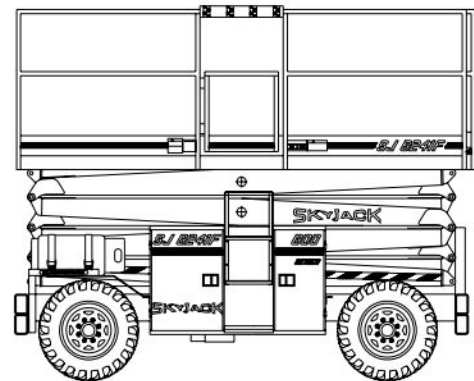
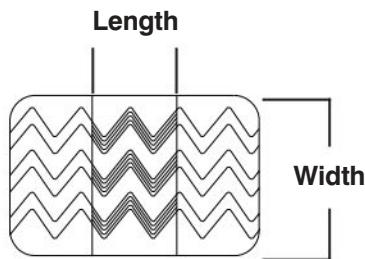
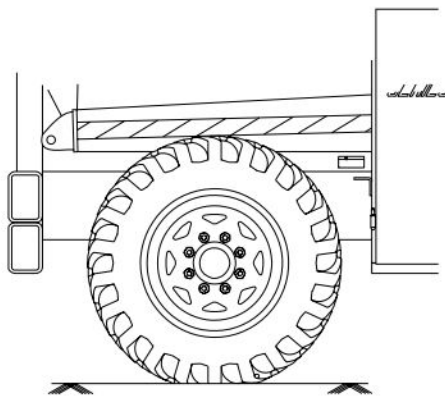
Foot Print Area = Length x Width

$$LCP = \frac{\text{Weight of Machine} + \text{Capacity (kg)}}{\text{Foot Print Area} \times 4 \text{ (Tires)}}$$

Overall Uniform Pressure (OUP):

Base Area = Length x Width

$$OUP = \frac{\text{Weight of Machine} + \text{Capacity (kg)}}{\text{Base Area}}$$



 **Warning**

Intermixing tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact original Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.

Table 2-4. Maximum Platform Capacities (Evenly Distributed)

MODEL	With 3' Extension Platform				With 5' Powered Extension Platform			
	Main Platform		Extension Platform		Main Platform		Extension Platform	
6826	317 kg	2 Persons	136 kg	1 Person	317 kg	2 Persons	136 kg	1 Person
6832	318 kg	2 Persons	136 kg	1 Person	318 kg	2 Persons	136 kg	1 Person

60345AE-CE

NOTE: Overall capacity - Occupants and materials not to exceed rated load.

BEAUFORT SCALE	Wind Speed				Ground Conditions
	m/s	km/h	ft/s	mph	
3	3.4 - 5.4	12.5 - 19.4	11.5 - 17.75	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 - 65.5	31 - 38.5	Whole trees sway. It is difficult to walk against the wind.

60338AB

 **Warning**

This aerial platform is equipped with a load sensing system. Do not exceed the rated capacity of the aerial platform. Failure to avoid this will prevent operation of all normal controls/functions of the aerial platform.
To resume normal operation remove the additional loads.

 **Warning**

Use only original replacement parts. Parts such as batteries, chargers, wheels, railings, etc. with weight and dimensions different from original parts will affect the stability of the aerial platform and must not be used without the manufacturer's consent.

General Maintenance

Before attempting any repair work, disconnect the battery by turning the battery disconnect switches to the OFF position. Preventive maintenance is the easiest and least expensive type of maintenance.

Table 2-5. Maintenance and Inspection Schedule

	Daily	Weekly	Monthly	3 Months	6 Months	12 Months*
Mechanical						
Structural damage/welds	A			A		A
Parking brakes	B			B		B
Tires/wheels & fasteners	A, B, C			A, B, C		A, B, C
Guides/rollers & slider pads	A, B, I			A, B, I		A, B, I
Railings/entry chains/gates	A, B, C			A, B, C		A, B, C
Bolts and fasteners	C			C		C
Maintenance support	B			B		B
Rust			A	A		A
Wheel bearings and king pins	A, B, E			A, B, E		A, B, E
Pothole protection device	A, B			A, B		A, B
Steering cylinder & tie rod				A, B, E		A, B, E
Electrical						
Battery fluid level	A			A		A
Control switches/indicator lights**	A, B			A, B		A, B
Cords & wiring	A			A		A
Battery terminals	A, C		A, C	A, C		A, C
Inverter/AC receptacle	A, B			A, B		A, B
Terminal and plugs	C			C		C
Limit switches	B			B		B
Hydraulic						
Hydraulic oil	H			H		H
Hydraulic hoses/fittings	A, L		C	A, L, C		A, C, L
Lift/lowering drive times				G		G
Cylinders		A, B		A, B		A, B
Emergency lowering system	B			B		B
Lift capacity			D	D		D
Hydraulic oil filter					F	F
Miscellaneous						
Labels & manual	A, J, K			A, J, K		A, J, K
Check for applicable service bulletins					A	A
Notes						
A. Visually inspect. B. Check operation.** C. Check tightness. D. Check relief valve setting. Refer to serial number nameplate. E. Lubricate. F. Replace. G. Refer to Table 2-1 , "Specifications and Features." H. Check oil level. I. Ensure there is no metal to metal contact with slider, slider side or running surface. Check for free movement of surface. Also check for free movement of the slider pin through the slider and pad.			J. Replace if missing or illegible. K. Proper manual must be in box. L. Check for leaks. * Record inspection date and signature. ** Since the enable switch works in conjunction with lift/drive or steer function, to inspect operation of the joystick enable switch activate the steer controller once with activating the enable switch and once without activating the enable switch.			

60028AG-68E

Table 2-6. EC Declaration of Conformity

EC Declaration of Conformity

We, SKYJACK INC., [*], declare under our sole responsibility that the product Scissor Type Elevating Work Platform

Model number: [*]

Serial number: [*]

To which this declaration relates is in conformity with the following directives:

Machinery Directive 98/37/EC

Notified body is: [*]

EC type Examination Certificate No: [*]

Machinery Directive 98/37/EC as related to Load Sensing System

Notified body is: [*]

EEC Type Examination Certificate No: [*]

Directive 89/336/EEC

Certified laboratory: [*]

The Technical Construction File is maintained at:

[*]

The authorized representative located within the community is:

[*]

Place of issue:

[*]

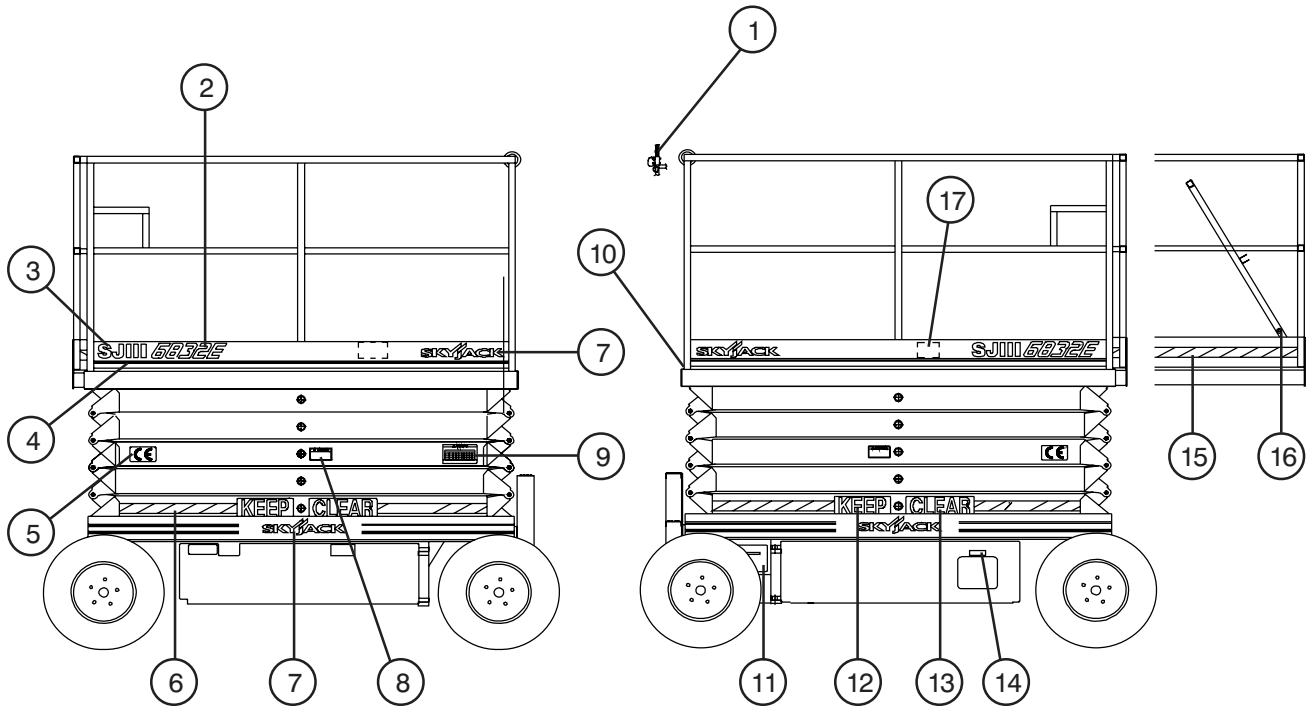
Note: In case of unauthorized modification, this Declaration becomes invalid.

Test Engineer:

Quality Coordinator:

[*] For information refer to the English EC Declaration of Conformity provided with your aerial platform.

Labels and Nameplates



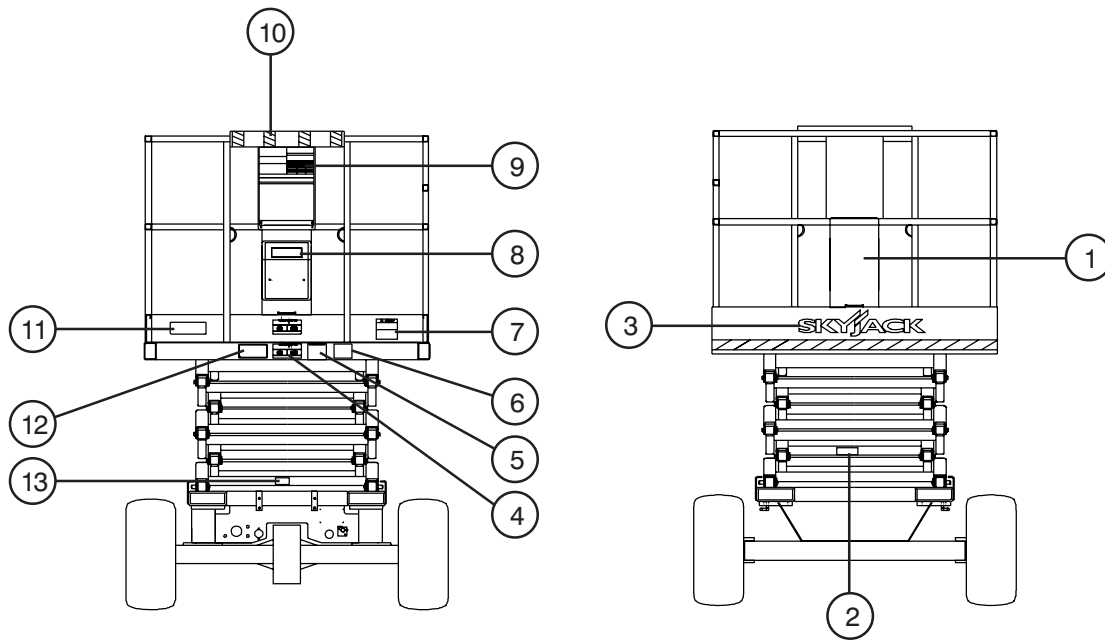
- 1 LABEL, Warning, Falling Hazard
- 2 LABEL, E
- 3 LABEL, Model Designation SJIII 6832
- 4 LABEL, Tape Assembly
- 5 LABEL, CE
- 6 LABEL, Tape Assembly
- 7 LABEL, Skyjack Logo
- 8 LABEL, Caution Lift
- 9 LABEL, Annual Inspection

- 10 LABEL, Side Force/Outdoor
- 11 LABEL, Caution Brake
- 12 LABEL, Keep
- 13 LABEL, Clear
- 14 LABEL, Battery Charger Connection In Tray
- 15 LABEL, Tape Assembly
- 16 LABEL, No Step
- 17 LABEL, Safety Belt harness

* ANSI/SIA & CSA Standards Only

10817AA

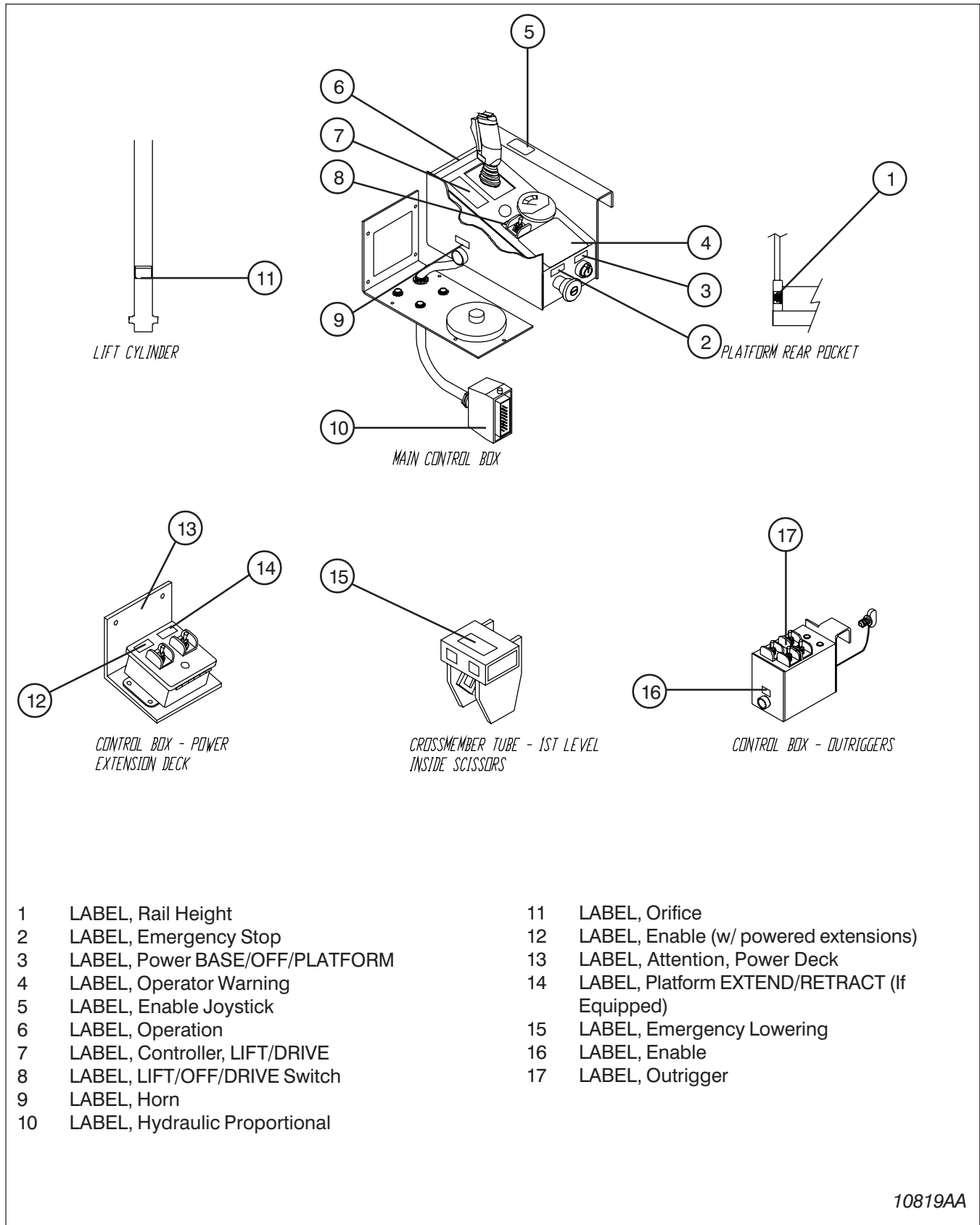
Labels and Nameplates



- 1 LABEL, Manual Box
- 2 LABEL, Safety Bar
- 3 LABEL, Skyjack Logo
- 4 LABEL, Platform Capacities
- 5 LABEL, Checklist
- 6 LABEL, Do Not Wear Jewellery
- 7 LABEL, Danger, Foam Filled Tires
- 8 LABEL, Manual Enclosed
- 9 LABEL, Danger/Warning
- 10 LABEL, Tape Assembly
- 11 LABEL, Side Force/Outdoor
- 12 LABEL, ON/OFF Slab
- 13 LABEL, Tie down/Lift lugs pictorial
- 14 LABEL, Forklift Boot
- 15 LABEL, Safety Bar

10818AA

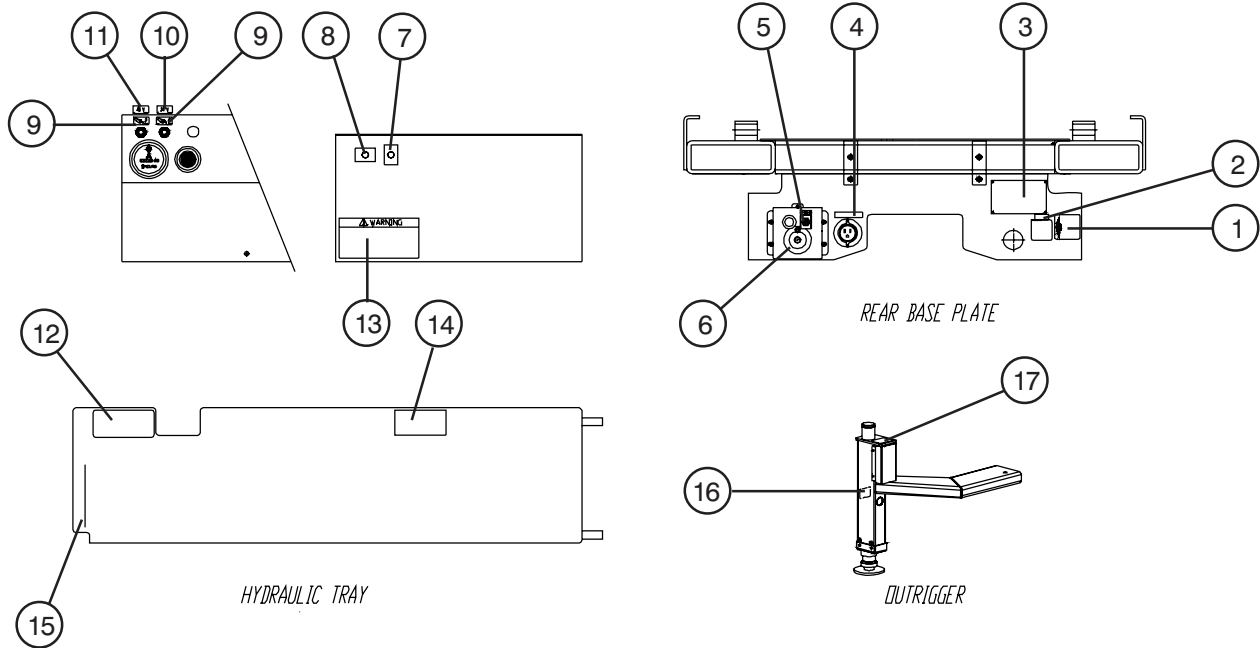
Labels and Nameplates



- | | | | |
|----|--------------------------------|----|--|
| 1 | LABEL, Rail Height | 11 | LABEL, Orifice |
| 2 | LABEL, Emergency Stop | 12 | LABEL, Enable (w/ powered extensions) |
| 3 | LABEL, Power BASE/OFF/PLATFORM | 13 | LABEL, Attention, Power Deck |
| 4 | LABEL, Operator Warning | 14 | LABEL, Platform EXTEND/RETRACT (If Equipped) |
| 5 | LABEL, Enable Joystick | 15 | LABEL, Emergency Lowering |
| 6 | LABEL, Operation | 16 | LABEL, Enable |
| 7 | LABEL, Controller, LIFT/DRIVE | 17 | LABEL, Outrigger |
| 8 | LABEL, LIFT/OFF/DRIVE Switch | | |
| 9 | LABEL, Horn | | |
| 10 | LABEL, Hydraulic Proportional | | |

10819AA

Labels and Nameplates



- 1 LABEL, Battery Disconnect Switch Location
- 2 LABEL, Power OFF/ON
- 3 NAMEPLATE, Serial Number
- 4 LABEL, Connect AC Supply Here
- 5 LABEL, UP/DOWN Or EXTEND/RETRACT
- 6 LABEL, Emergency Stop
- 7 LABEL, UP/DOWN
- 8 LABEL, Enable
- 9 LABEL, Power Reset
- 10 LABEL, 24V
- 11 LABEL, 48V
- 12 LABEL, Emergency Lowering
- 13 LABEL, Warning Replacement Parts
- 14 LABEL, Push To Down
- 15 LABEL, Hydraulic System
- 16 LABEL, Danger! Hand/foot pinch
- 17 LABEL, Do Not Alter

10820AB



MOBILE ELEVATING PLATFORMS

www.skyjackinc.com