

# SKYJACK™

## OPERATING MANUAL

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



# S J I I I Series

The Compacts and Conventionals  
Models 32xx, 32xxM, 46xx  
And 68xx

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 ..... **31 297 255 526**  
Skyjack Europe Communicatieweg 29, 3641 SG Mijdrecht Netherlands ..... FAX 31 297 256 948  
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USE THE SERIAL NUMBER OF YOUR MACHINE TO DETERMINE THE CORRECT OPERATING MANUAL TO USE								
MANUAL PART #	118942AD	122882AJ	122908AE	129908AE	129917AC (CE)	129918AC (ANSI/CSA)	129939AA (AU)	
Release Date	July 2003	July 2003	July 2003	July 2003	May 2005	May 2005	May 2005	
M O D E L S	3015	150931 & Below	150932 to 115980	Not Used		Not Used		
	3219	229632 & Below	229633 to 236285	Not Used		Not Used		
	3215	Not Used		115981 to 152099	152100 to 152169	152170 & Above		
	3219	Not Used		236286 to 237573	237574 to 239691	239692 & Above	244130 & Above	
	3220	611286 & Below	611287 to 613550	613551 to 615016	615017 to 615505	615506 & Above	616430 & Above	
	3226	Not Used	27013 to 28042 28048 to 28117	28043 to 28047 28118 to 270930	270931 to 271776	271777 & Above		
	4620	66658 & Below	66659 to 66875	Not Used		66876 to 66889	710000 & Above	
	4626	706174 & Below	706175 to 709362	Not Used		709363 to 709588	710000 & Above	
	4632	Not Used		Not Used		Not Used	Not Used	
	4830/32	87564 & Below	87565 to 870780	Not Used		870781 to 871159	Not Used	
	6826	75578 & Below	75579 to 75618	Not Used		75619 to 75619	75620 & Above	
	6832	82573 & Below	82574 to 83066	Not Used		83067 to 83100	83101 & Above	

60312AD

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



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



**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.

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

**Aerial Platform.** 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.

### **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 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 Features and Optional Equipment".

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

For options not listed under "Standard Features and Optional Equipment", contact the SKYJACK service department at 800 275-9522 or fax 630 262-0006, include the model and serial number for each applicable machine.

### 1-1. Scope Of This Manual

- a. This manual applies to the ANSI/SIA, CSA and CE versions of the SJIII, Series aerial platform models listed on (Table 2-1.)
- Equipment identified with “ANSI” meet the ANSI SIA-A92.6-1999 standard.
  - Equipment identified with “CSA” meets the CSA B354.2-01 standards.
  - Equipment identified with “CE” meets the requirements for the European countries, i.e. Machinery Directive 98/37/EEC and EMC Directive 89/336/EEC and the corresponding EN standards.
- b. **CSA (Canada) and CE (Europe)**  
Operators are required to conform to national, state/province and local health and safety regulations applicable to the operation of this aerial platform.
- c. **ANSI/SIA (United States)**  
Operators are required by the current ANSI/SIA A92.6 standards to read and understand His/Her RESPONSIBILITIES in the Manual Of Responsibilities before they use or operate this aerial platform.

### 1-2-a. Warranty Statement

SKYJACK Inc. warrants each new aerial platform to be free of defective parts and workmanship. During the first full year, labor and replacement parts will be provided by the local authorized Skyjack dealer without charge. For the following 48 months, structural components found to be defective will be replaced or repaired at no charge.

A warranty registration card is supplied with each aerial platform. The warranty is only effective when the warranty card has been completed and returned to Skyjack within 15 days of invoiced. When aerial platforms are put into Dealer’s stock, the warranty period does not start until the aerial platform has been shipped to the dealer’s customer. When a unit is put into service and no warranty card has been mailed to Skyjack Inc., the warranty period will commence 15 days from the date the dealer was invoiced for the aerial platform.

All warranty claims are subject to approval by Skyjack’s Service Department. Skyjack Inc. reserves the right to limit or adjust claims with regard to defective parts, labor or travel time based on usual and customary guidelines. Parts purchased from sources other than Skyjack will not be covered under this warranty. Misuse or improper operation, lack of normal maintenance and inspections as outlined in this Operating Manual or the Operating Maintenance and Parts Manual, alterations to original design and/or components or accidents will void all warranty. **Batteries or Engines are not covered by this warranty.**

The above mentioned warranty statement is exclusive and no other warranty whether written, oral or implied shall apply. Skyjack excludes any implied warranty of merchantability and fitness and accepts no liability for consequential damages or for other negligence.

### 1-2-b. Warranty Procedures

The selling distributor or authorized dealer shall be responsible for the complete handling of customer claims under this warranty. Here is what to do:

1. When a customer files a claim under this warranty, contact Skyjack’s Service Department to verify warranty coverage. NOTE: The complete serial number of the aerial platform is required to verify the claim.

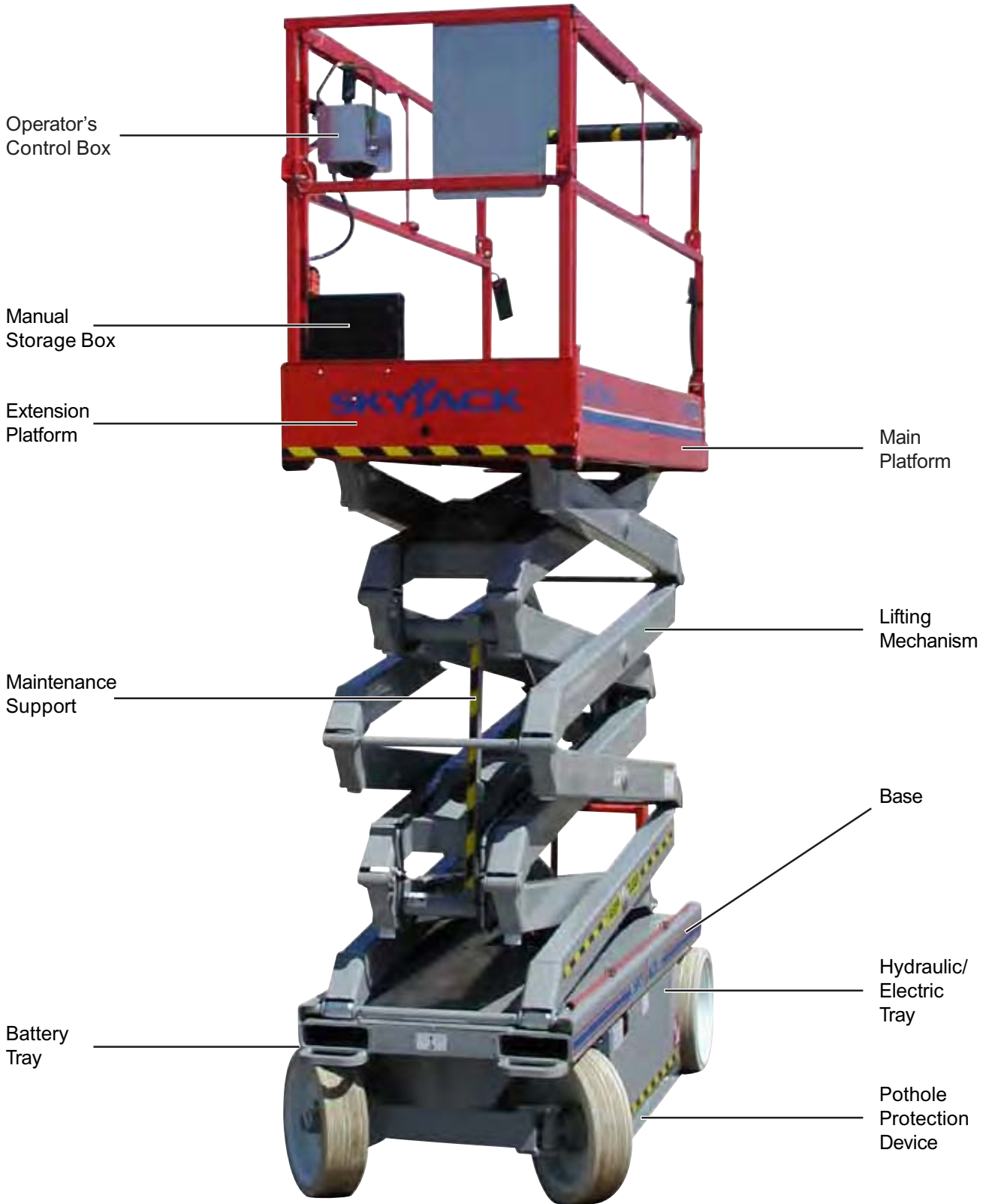
**1-2-b. Warranty Procedures (Continued)**

2. When Skyjack's Service Department verifies warranty coverage, they will also issue an RA (Return Authorization) number for the return of any defective component(s). All items over \$25.00 USD in value must be returned to Skyjack Inc.
3. Fill out a Warranty Claim Form from dealer's supply of claim forms. Then notify Skyjack's Service Department of the warranty claim number on the form used.
4. The distributor/dealer should then file a warranty claim with Skyjack Inc. describing the nature of the defect, probable cause, work performed, travel hours, and labor hours listed separately. Warranty labor will be paid at a rate of (\$42.00 USD) per hour. The travel allowance will be paid at the same hourly rate within the dealers specified territory, limited to a maximum of four (4) hours. If a part has serviceable components, replace the faulty component. For instance, if you have a faulty switch on a controller, please replace the switch. Hydraulic cylinders should be resealed, unless they are damaged beyond repair. Engine failures should be directed to your local engine distributor and covered by the manufacturers warranty. Skyjack will accommodate you and your labor. Labor rates and travel allowances are subject to change without notice.
5. Warranty claims must be received by Skyjack within 15 working days from the date of the repair. Warranty claims received with insufficient information will be returned for correction or completion.

6. Materials returned for warranty inspection must be:
  - a. Carefully packaged to prevent additional damage during shipping.
  - b. Drained of all contents and all open ports capped or plugged.
  - c. Shipped in a container tagged or marked with the RA number.
  - d. Shipped **PREPAID**. Any item(s) returned for warranty by any other means may be refused and returned unless prior approval from Skyjack is obtained.
  - e. Items shipped to the dealer will be sent freight prepaid and added to the invoice.

Failure to comply with the above procedures may delay approval and processing of the warranty claim and could result in the denial of a warranty claim. Skyjack's dealer's accounts must be kept current in order to approve and issue warranty credits. Skyjack reserves the right to withhold issuance of warranty credits to a dealer if their account is not in good standing. This is subject to change without prior notice.

1-3. Major Components



SKYJACK SJIII Series aerial Platform

### 1-4. Major Assemblies

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

### 1-5. Platform

The platform is constructed of a tubular support frame, a skid-resistant "diamond plate" deck surface and 39" to 43-1/2" (991 - 1100mm) hinged guardrails with 6" (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.

### 1-6. 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.

### 1-7. Manual Storage Box

This weather resistant box is mounted to the inside of 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.



### 1-8. Lifting Mechanism

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

### 1-9. Maintenance Support/Safety Bar

A Maintenance Support, located inside the lifting mechanism (when properly positioned) can support the scissors and empty platform. The Maintenance Support **MUST** be used during inspection and maintenance or when repairs are being performed within the lifting mechanism.

### 1-10. Base

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

- **Pothole Protection:** A mechanically actuated angle, located under the outside of the trays, rotates when lifting. This mechanism provides pothole protection for elevated driving (except models 6826 and 6832).
- **On Models 3215 and 3219:** One tray contains the hydraulic and electrical components. The other tray contains four (4) 6 volt batteries. The charger is located at the rear of the machine. The front axle has two hydraulic motor-driven wheels, steerable by a hydraulic cylinder. The rear axle is fixed and has one spring-applied hydraulically-released parking brake.
- **On Models 3220, 3226, 4620, 4626, 4632, 6826 and 6832:** One tray contains the hydraulic and electrical components. The other tray contains battery charger and four (4) 6 volt batteries. The front axle has two non-driven wheels, steerable by a hydraulic cylinder. The rear axle has two hydraulic motor-driven wheels and two spring-applied hydraulically-released parking brakes.

### 1-11. Lowering Warning System

- **(If Equipped)** - A lowering warning system automatically stops the lowering function before reaching the fully retracted position and sounds an alarm.

### 1-12. 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 lowered immediately.

### 1-13. The 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.

### 1-14. Serial Number Nameplate

The serial number nameplate, located at the rear of the machine, list 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
- Date manufactured
- Maximum wind speed (CE only)
- Maximum manual force (CE only)
- Maximum incline (CE only)

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

1-15. Standard Features

- Descent Alarm
- Joystick Controller With Proportional Lift and Drive Functions (See NOTE)
- Swing Out Side Trays
- Dual Spring-Applied, Hydraulically-Released Parking Brakes
- Manual Lowering System With Electric Holding Valves On Lift Cylinders
- Operator Horn
- 3 Foot Manual Extension Platform (32XX and 68XX)
- 4 Foot Manual Extension Platform (4620 and 4626)
- AC Outlet On Platform
- Lanyard Attachment Rings
- Front Wheel Drive With Tight Turning Radius (Models 3215 and 3219)
- Hinged Railings (Except 3215, 3219, 3220 and 4620)
- Tilt Alarm
- Forklift Pockets, Lifting Lugs/Tie Downs
- Hourmeter
- Color-coded, Numbered Wiring System
- Urethane Foam Filled Tires (Models 6826 and 6832)
- Puncture-Proof Solid Rubber Non-Marking Tires (All Models Except 6826 and 6832)
- Pothole Protection (All Models Except 6826 and 6832)
- Movement Alarm (ANSI only)
- Lowering Warning System (CE only)
- Spring-Loaded Half-Height Gate (CE only)
- Scissor Guards (CE only) (Models 6826 and 6832)
- Overload System (CE only)

1-16. Optional Equipment

- Spring-Loaded Full-Height Gate
- Flashing Amber Light
- 800W AC Generator
- Hydraulically Powered Extension Platform (Except 3215, 3219, 3226 and 4632)
- EE-Rating
- Air Operation Package (All Models Except 3215 and 3219)
- Shop Air Hose To Platform
- Hinged Railings (Models 3215, 3219, 3220 and 4620)
- Non-marking, Foam Filled Tires (6826, 6832 only)
- Propane or Diesel Engine Package (Consult Skyjack )
- Kit For Power Pack (Consult Skyjack )
- Spring-Loaded Half-Height Gate (ANSI only)
- Scissor Guards (ANSI only) (Models 6826 and 6832)
- Lowering warning system (ANSI only)
- Movement Alarm (CE only)
- Overload System (ANSI only)

**Note:** 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!**

**1-17. Operator Safety Reminders**

The National Safety Council reminds us that most accidents are caused by the failure of some individuals to follow simple and fundamental safety rules and precautions. 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.

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.

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

**1-18. Electrocution Hazard**

This aerial platform is not electrically insulated. Maintain a minimum safe approach distance (MSAD) from energized power lines and parts as listed below. Operator must allow for platform 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**

ANSI/SIA A92.6-1999 & CSA B354.2-01 Requirements			CE Guidance Note
Minimum Safe Approach Distance			"Avoidance of danger from Overhead Lines"
Voltage Range (Phase to Phase)	Minimum Safe Approach Distance		<b>Adhere strictly to the governmental rulings and regulations applicable in your country.</b>
	Feet	Meters	
0 To 300V	Avoid Contact		
Over 300V to 50KV	10	3.05	
Over 50KV to 200KV	15	4.60	
Over 200KV to 350KV	20	6.10	
Over 350KV to 500KV	25	7.62	
Over 500KV to 750KV	35	10.67	
Over 750KV to 1000KV	45	13.72	

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

60023AC

1-19. 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 Federal, State, Provincial and local rules which apply to your MACHINE and JOBSITE.
- **DO NOT** leave the aerial platform unattended with the key in the key switch.
- **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 firm level surfaces. 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 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 steeper than 23% (3215, 3219), or 25% (3220, 3226, 4620, 4626, 4632, 6826 & 6832). Ascend or descend grades only when fully lowered and then only to the maximums noted above.



1-19. 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.



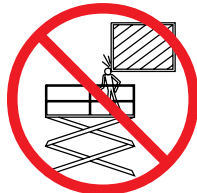
- **DO NOT** sit, stand or climb on the guardrails. It is prohibited.



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



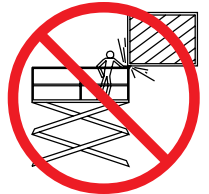
- **BE AWARE** of overhead obstructions or other possible hazards around the aerial platform when driving or lifting.



- **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 guardrail.



- **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, lock 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.

1-19. 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.

**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.



**Warning**

Entering and Exiting the aerial platform should only be done using the 3 point contact system.

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

- **Do Use Three Point 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 Point Contact** means that two hands and one foot **OR** one hand and two feet are in contact with the aerial platform at all times during entering and exiting.



**Warning**

*An operator should not use any aerial platform that :*

- Does not have a clean, uncluttered work area.
- 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.

### 2-1. General

This section provides the necessary information needed to operate the aerial platform. The following descriptions are for identification, explanation and locating purposes only. It is important that the user reads and understands the proper procedures before operating the aerial platform.

### 2-2. Operator Qualifications

- **ONLY** trained and authorized personnel **MUST** 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 their ability to understand and operate **THIS** make and model of aerial platform in the presence of a qualified person.

### 2-3. Operator's Responsibility for Maintenance



#### Warning

Competent personnel who are familiar with mechanical procedures must perform inspection and maintenance.

Death or serious injury could result from the use of an aerial platform that is not properly maintained or kept in good working order.

- 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.

### 2-4. 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

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

### 2-5. 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 scissors assembly. Refer to "Table 2-3" in this manual.

2-6. Folding Guardrail System

**Fold-Down Guardrail System** - This system, when folded down, reduces the retracted height of the aerial platform for transporting and traveling through doorways only.

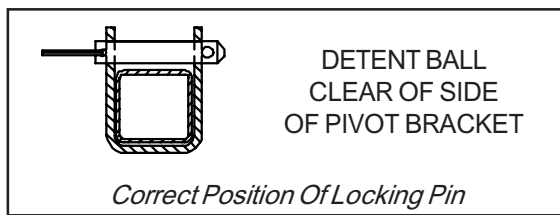


Figure 2-1. Fold-Down Guardrail System

**Warning**  
The scissors must be fully lowered before raising or lowering the guardrails.

1. **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. (Refer to "Figure 2-1")

**Warning**  
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.

2-7. Maintenance Support/ Safety Bar

**Maintenance Support** - The maintenance support is designed to support the scissors assembly. When properly positioned it can support the scissors and empty platform. The Maintenance Support **MUST** be used when inspection and maintenance or repairs are to be performed within the lifting mechanism.



Figure 2-2. Maintenance Support/ Safety Bar

**Warning**  
The maintenance support must be used when inspection and 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/Safety Bar**

- Remove all material from platform.
- Raise platform until there is adequate clearance to swing down the maintenance support.
- Swing maintenance support down from storage bracket into a vertical position.
- Remove hands and arms from scissors area.
- Lower platform until bottom end of maintenance support contacts the labeled cross bar and scissors are supported by maintenance support .
- Turn off Emergency Main Power Disconnect Switch.

**To Store Back The Maintenance Support/Safety Bar**

- Turn on Emergency 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 scissors assembly when the platform is raised without the maintenance support properly positioned. Failure to avoid this hazard will result in death or serious injury.



**Warning**

**Crushing Hazard**

Personnel on ground **MUST** stay clear of pothole protection bar.



**Warning**

Do not drive elevated in areas where electrical cords or debris are in the path of travel.

**2-8. Lanyard Attachment Ring (If Equipped)**

**Lanyard Attachment Ring** - Use this ring as an attachment point for safety harness tethers. **DO NOT** attach 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 2-3. Lanyard Attachment Ring



**Warning**

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.

**Maintenance of the Pothole Protection Device:**

- As with all safety devices, periodic inspection and maintenance is required to ensure the proper operation of the pothole protection device. This mechanism is designed to reduce ground clearance and assist in the stability of an elevated aerial platform in the event the machine encounters a “Drop-off” or “Pothole”. The nature of this safety feature relies on maintaining a consistent ground clearance, therefore if the machine ever does come to rest on the Pothole device, the platform should be immediately lowered and “locked out” to prevent further use until a complete inspection of the mechanism is performed by a qualified technician.

**2-9. Pothole Protection Device**



Figure 2-4. Pothole Protection Device

- Pothole Protection Device** - This device consists of a mechanically actuated steel weldments, located under the hydraulic/electric tray and battery tray, these weldments will automatically rotate for reduced ground clearance when elevating the aerial platform. If the pothole protection device has not fully lowered, the drive function will be disabled.

**2-10. 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 prevents Drive and Lift functions of the aerial platform and an alarm produces an audible sound accompanied by the amber light (If Equipped). These alarms activate once every 1.5 seconds. Lower platform completely, then reposition machine so that it is level before raising platform.

2-11. Overload Warning Alarm (If Equipped)

- The aerial platform is equipped with a load sensing system. A rapidly flashing red light at the operator's controls will activate at loads just less than rated load (90%). An audible alarm will sound for approximately 2 seconds, 5 times per minute at rated load exactly. If the machine becomes 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.
- 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 2-24"

**Note**

After reaching full extension and upon lowering, the machine could stop and take an overload reading, return the joystick 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.

2-12. Base Controls

2-12-a. Emergency Main Power Disconnect Switch

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



Figure 2-5. Emergency Main Power Disconnect Switch

1. **Emergency 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.

2-12-b. Base Controls (If Equipped)

This control station is located in the Hydraulic/Electric tray. It contains the following controls:

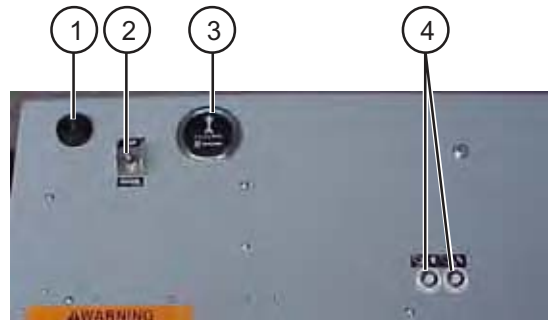


Figure 2-6. Electrical Panel

1. **Buzzer Alarm** - This audible pulse alarm will beep in varying intervals depending on the status of the platform.
2. **Platform Up/Down Toggle Switch** - This toggle type switch raises or lowers the platform to a desired height.(If Equipped)
3. **Hourmeter** - This gauge records the accumulated time of operation of the aerial platform.
4. **Circuit Breaker Resets** - In the event of a power overload or positive circuit grounding, the circuit breaker will pop out.

**2-12-c. Base Control Box (If Equipped)**

This control station is found on the rear of the base or rear of the hydraulic/electric cabinet. It contains the following controls:

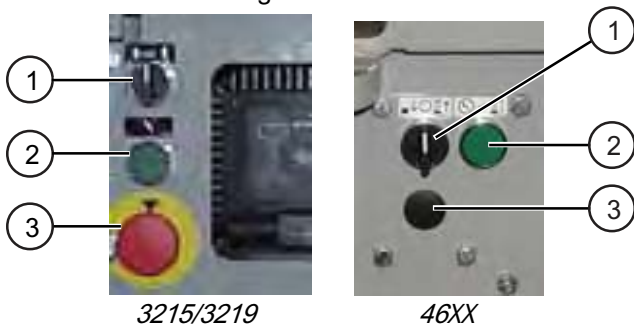


*Figure 2-7a. Base Control Box (CE)*

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.

**2-12-d. Base Controls (If Equipped)**

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



*Figure 2-7b. Base Control Box*

1. **Platform Up/Down Selector Switch** - This switch raises or lowers the platform to a desired height.
2. **Enable Switch** - This switch, when activated, brings power to the Platform Up/Down Selector Switch
3. **Emergency Stop Button (If Equipped)** - When depressed, this red “mushroom-head” push-button switch disconnects power to the control circuit.

**2-13. Motion Alarm (If Equipped)**

- The aerial platform is equipped with a motion alarm. The alarm produces an audible sound at a rate of about once every two seconds when any control function is selected. On machines with certain options, a flashing amber light will accompany this alarm.

**2-14. 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:

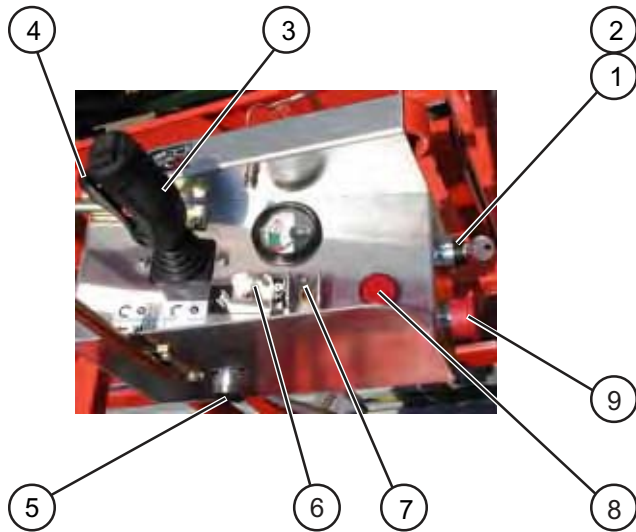


Figure 2-8. Operator's Control Box

1. **Off/On Key Switch** - Disconnects or energizes the control circuit in the operator's control box.
2. **Platform/Off/Base Select Key Switch (If Equipped)** - 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.
3. **Lift/Drive Controller** - A one-hand toggle-type lever to control drive/lift motion and steer motion. Internal springs return it to neutral when stick is released.
4. **Lift/Drive Enable Switch** - This momentary "Trigger" style switch energizes the proportional controller. It must be held depressed continuously while engaging either the drive/lift or steer functions.
5. **Operator Horn Push-Button** - Located on the side of the Operator's Control Box, this push-button switch, when depressed, sounds an automotive-type horn.

6. **High/Normal Torque Select Toggle Switch (If Equipped)** - This switch selects "HIGH" torque (low speed) or "NORMAL" torque (high speed).
7. **Lift/Off/Drive Select Toggle Switch (If Equipped)** - If "Lift" is selected, the lift circuit is energized. "OFF" (If Equipped) disconnects power from both the lift and drive circuits. If "DRIVE" is selected, the drive circuit is energized.
8. **Operation Light (If Equipped)** - The red colored light indicates upper control availability and over load status. When the light is continuously illuminated upper controls are available. When the light is flashing it signals an overload function. Refer to "section 2-11"
9. **Emergency Stop Button** - When depressed, this red "mushroom-head" push-button switch disconnects power to the control circuit.

**2-15. Powered Extension Deck Control Box (If Equipped)**

This metal control box is mounted on the extension platform guard rail. It contains the following controls:



Figure 2-9. 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.

## 2-16. Parking Brake

**Parking Brake** - The parking brakes are devices that are always mechanically engaged until hydraulically or manually released.



*Figure 2-10. Parking Brake*

A pin retracted by a single-acting hydraulic cylinder disengages each brake disc when driving. A spring inside each cylinder returns the pin to engage the brake disc for parking, lifting, lowering and stationary steering.

## 2-17. Free-Wheeling Valve

**Free-Wheeling Valve** - The free-wheeling valve is located at the front and/or rear of the machine. (depending on model)



*Figure 2-11. Free-Wheeling Valve*

1. **Free-Wheeling Valve** - Turning the valve knob (counterclockwise) to a fully opened position allows fluid to flow through the wheel motors, thus providing “free-wheeling” so that the aerial platform can be pushed, towed or winched after the brakes are released without damaging the wheel motors. The Free-wheeling valve **MUST** be closed tightly (clockwise) for normal operation.

**Note**


Refer to “[section 2-25](#)” For Winching and Towing procedure.

**Operating Procedures**

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

**2-18. Set-Up Procedure**

1. Remove all packing materials and inspect for damage incurred during transport. This step is normally only required after the equipment has been unloaded and is being put into service for the first time. Report any damage to delivery carrier immediately.
2. Inspect aerial platform thoroughly and remove any foreign objects.
3. Raise all guardrails to their upright position and lock in place with locking pins.  
(Refer to “figure 2-1”)



 <b>Warning</b>
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.


4. Ensure the Emergency Main Power Disconnect Switch is switched to the “OFF” position. Remove the operator’s control box from its shipping container and secure it to the guardrail at the right front of the platform. Attach the control cable and power extension deck cable (If Equipped) to the machine’s control cable.
5. 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 2-25” for “Winching and towing procedures”
6. Unlock and swing out the hydraulic/electric tray and battery tray.

- 7a. Check the tank’s hydraulic oil level (scissors must be fully lowered). Level should be at or slightly above the top mark on the sight glass.
- b. Close the hydraulic/electric tray.

**Note**

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

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

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

8. Check the battery fluid level. If fluid level is not at FULL mark on battery, add distilled or demineralized water only.
9. Connect the A.C. battery charger cord to the proper A.C. voltage source and charge the batteries. (Refer to “section 2-28” for “Battery Charging Procedures”). When charger cycle is complete, disconnect battery charger A.C. cord.

**2-19. Raise The Platform**

1. Turn the Emergency Main Power Disconnect Switch to "ON" position.

**Warning**

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

2. Raise the platform with Up/Down Toggle Switch from the hydraulic tray, until there is an adequate clearance to swing down the maintenance support.
  - 2a. **(If Equipped)** - Ensure the emergency stop buttons on the base control box and the operator's console box are pulled out.
  - 2b. **(If Equipped)** - Select "BASE" position, with the Platform/Off/Base selector switch, then turn the base Up/Down selector switch to the "↑" (up) position until there is an adequate clearance to swing down the maintenance support.
3. **Models 3215/3219 and 46XX**  
Raise the platform by pressing and holding the base Enable Switch. Turn the base Up/Down Selector Switch to the "↑" (up) position until there is an adequate clearance to swing down the maintenance support.
  - 3a. **(If Equipped)** - Ensure the emergency stop buttons on the base control box and the operator's console box are pulled out.
  - 3b. **(If Equipped)** - Select "BASE" position with the Platform/Off/Base selector switch, then press and hold the base Enable Switch. Turn the base Up/Down Selector Switch to the "↑" (up) position until there is an adequate clearance to swing down the maintenance support.
4. Lift the maintenance support from the storage channel and swing down into position. (Refer to "section 2-7" for proper procedure.) Lower the platform until the scissor assembly is firmly supported by the maintenance support.

5. Inspect all hoses, fittings, wires, cables, valves, etc. for leaks, loose or missing parts, hidden damage and foreign material.
6. Raise the platform until there is an adequate clearance to swing up maintenance support. Return the maintenance support to storage channel.
7. Raise the platform to the maximum extension height.

**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.

8. Fully lower the platform.
9. **Lowering Warning System (If Equipped)** - A lowering warning system automatically stops the lowering function before reaching the fully retracted position and sounds an 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.

**2-20. 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. Carefully read and completely understand **ALL** of Section 2, OPERATION in this manual and **ALL** warnings and instruction labels on the aerial platform.
2. 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.
3. Ensure that there are no electrical cords and hoses in the path of travel.
4. Ensure that the batteries are fully charged. Disconnect the AC charger cord from the external power source.
5. Ensure that both side battery and hydraulic trays are closed and locked.
6. Ensure that the Free-Wheeling Valve is fully closed.
7. Make sure all guardrails and lock pins are in place and locked in position.
8. Make sure you do not climb or descend a grade steeper than 23% (3215, 3219), or 25% (3220, 3226, 4620, 4626, , 4632, 6826 & 6832). Elevated driving must only be done on firm level surfaces.
9. 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.

**2-21. Operators Checklist**

It is the users 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. Engine oil level (If Equipped).
12. Battery fluid level.
13. Hydraulic reservoir level.
14. Coolant level (If Equipped).
15. Parking brake (Check operation).



**Warning**

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

Start And 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.**

- 4b. Activate and hold the Enable trigger switch (by squeezing it towards the joystick).
- 4c. Push the controller handle forward until desired height is reached.
- 4d. Return the joystick 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.

**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.

2-22. Setting the Base Controls:

1. Turn the Emergency Main Power Disconnect Switch to "ON" position.
2. (If Equipped) - At the base control box, pull out Emergency Stop Button.
3. Using the controls on the platform:
  - 3a. Use the ladder of the aerial platform to access the aerial platform deck. Close and latch the chain/gate.
  - 3b. At the main control box, pull out the Emergency Stop Button.
  - 3c. Turn key switch to "ON" position.
  - 3d. (If Equipped) - Turn key switch to "PLATFORM" position.
4. To Raise the Platform:




**Warning**


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

- 4a. Ensure the emergency stop button is pulled out. Select "LIFT" position with the Lift/Off/Drive Toggle Switch.

5. To Lower the Platform:


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


- 5a. Activate and hold the Enable trigger switch (by squeezing it towards the joystick).
- 5b. Pull the controller handle backward until desired height is reached.
- 5c. Return the joystick to the neutral center position to stop. Release the Enable trigger switch.

 <b>Warning</b>
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.


**Note**  
Platform lowering is not proportional.


6. To Drive Forward or Backward:

 <b>Warning</b>
Limit travel speed according to conditions.


 <b>Warning</b>
Be aware of blind spots when operating the aerial platform.


- 6a. Ensure the emergency stop button is pulled out. Select “DRIVE” position with the Lift/Off/Drive Toggle Switch.
- 6b. Activate and hold the Enable trigger switch (by squeezing it towards the joystick).
- 6c. Push or pull the controller handle forward or backward to the desired speed and direction of platform travel.
- 6d. Return the joystick to the neutral center position to stop. Release the Enable trigger switch.

 <b>Warning</b>
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.

 <b>Warning</b>
If the machine does not drive when elevated
<ul style="list-style-type: none"><li>• Disengage the drive controller.</li><li>• Lower the platform immediately.</li><li>• Check that the pothole protection device is operating properly, and ensure that there are no electrical cords or hoses in the path of travel, or under the pothole protection bar.</li><li>• Ensure the machine is being operated on a compacted, firm level surface or the tilt sensor will disable some or all functions.</li></ul>

- 7. **To Increase Drive Torque (If Equipped) - Toggle** The “HIGH/ NORMAL TORQUE” switch to select high torque (low speed) or normal torque (high speed). Select “HIGH” position when climbing grades or when loading or unloading the aerial platform, select “NORMAL” position when traveling on a level surface with the platform fully lowered.

 <b>Warning</b>
<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>


 <b>Warning</b>
<p>Machine must be in fully retracted position when operated on any grade. Driving while elevated on any grade may result in death or serious injury.</p>

- 8a. **To Steer:** Select “DRIVE” position with the Lift/ Off/Drive Toggle Switch.
- 8b. Activate and hold the Enable trigger switch (by squeezing it towards the joystick), then press the rocker on top of the controller handle in the direction you wish to steer.

**Note:** Steering is not proportional.

- 9. **To Sound the Horn:** Depress the horn push-button located on the side of the operator’s platform control box.

- 10a. To extend/retract a manual extension deck:

 <b>Warning</b>
<p>Ensure that there are no personnel or obstructions in the path of travel, including blind spots.</p>

- 10b. To extend the manual extension deck remove the retaining locking pins and push/pull the extension deck using the push bar or the sliding handrails. Reinsert the locking pin(s), upon full retraction or extension to prevent accidental movement of the manual extension platform during travel or transport.

## Section 2 - Operation

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- 11a. To extend/retract powered extension deck: To extend the powered extension deck, ensure the emergency stop button is pulled out.
- 11b. Select "LIFT" position with Lift/Off/Drive Select Switch.
- 11c. On the powered extension deck control box, activate the Enable Switch, then push the extension/retraction toggle switch to the "↑" (extend) position until desired extension is reached. Release switch to stop.
- 11d. To retract the platform, ensure the emergency stop button is pulled out.
- 11e. Select "LIFT" position with Lift/Off/Drive Select Switch.
- 11f. On the powered extension deck control box, activate the Enable Switch, then push the extension/retraction toggle switch to the "↓" (retract) position until desired extension is reached. Release switch to stop.

### Note

All models are drivable with any extension platform extended 3 feet or less. An interlock limit switch cuts out drive when the platform is extended beyond 3 feet on some models.



### Warning

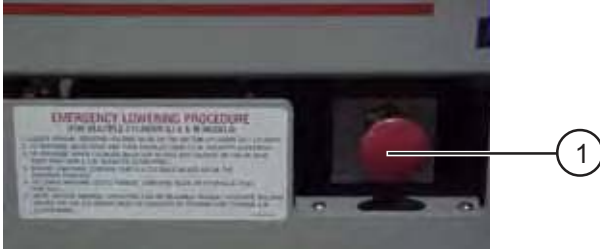
To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.

### 2-23. Shutdown Procedure

1. Completely lower the platform.
2. Turn Key Switch to "OFF" position. Remove key.
3. Push Emergency Stop Button(s) in.
4. Turn Emergency Main Power Disconnect Switch to "OFF" position.
5. **(If Equipped)** - Push in Emergency Stop Button located on Base Control Box.

## 2-24. Emergency Lowering System

**Emergency Lowering System** - This system allows platform lowering in the event of an emergency or an electrical system failure.



3. **Emergency Lowering Valve** - Located at the front of the hydraulic/electric tray (item 1), this pull-type valve when used in conjunction with the holding valve manual overrides, allows platform lowering in the event of an emergency or electrical system failure.
4. To restore normal operation, depress and turn the holding valve override knobs clockwise.



**Warning**

Keep clear of scissors mechanism when using emergency lowering valve.

*Figure 2-12. Emergency Lowering System*

1. Turn Emergency Main Power Disconnect Switch to "OFF" position.
2. **Holding Valve Manual Override Knob** - Located on the holding valve at the bottom of each lift cylinder (item 2), these red knurled knobs when depressed and turned counterclockwise allow hydraulic oil to bypass each holding valve. The red knurled knobs on each holding valve **MUST** be depressed and turned clockwise to restore normal operation. An access rod for reaching the elevated manual override knob is provided (item 3).

2-25. Winching And Towing Procedures



**Warning**

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.



**Warning**

When pushing, towing or winching,  
Do not exceed 2 mph (3.2 km/h).



**Warning**

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



**Warning**

Do not manually disengage the parking brakes if the aerial platform is on a slope.



Figure 2-13. Free-Wheeling Valve

1. Make sure that the aerial platform is on level ground. Chock or block the wheels to keep aerial platform from rolling.
2. **Free-Wheeling Valve** - Turning the valve knob (counterclockwise) to a fully opened position allows fluid to flow through the wheel motors, thus providing "free-wheeling".

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



Figure 2-14. Parking Brake

- **For Left-Hand Brake:** Using a 3/4" wrench, rotate the lock-out block on the brake pin 90° clockwise. The brake pin should be clear of the brake disc.
- **For Right-Hand Brake:** Using a 3/4" wrench, rotate the lock-out block on the brake pin 90° counterclockwise. The brake pin should be clear of the brake disc.

2-26. Preparation After Winching Or Towing

- Position machine on a firm, level surface.
- Chock or block the wheels to keep aerial platform from rolling.
- Engage the parking brake by momentarily activating the drive function.
- Close free-wheeling valve.

**Note**

The SJIII Series aerial platform is now ready for use by an authorized, qualified operator who has read and completely understands ALL of Section 2, OPERATION in this manual.

## 2-27. 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.

## Servicing The Batteries

1. Turn Emergency 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.

## 2-28. Battery Charging Procedures

## 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: **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 battery charger operation manual for procedures.) When charge cycle is completed, disconnect charger plug from battery tray.

2-29. Battery Charger

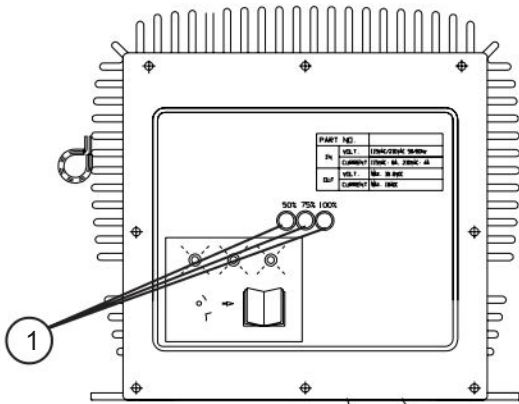


Figure 2-15. Battery Charger

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. Though 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 LED's are OFF or wait a minimum of 20 seconds before switching on the new voltage.

3. 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.

4. 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 LED's indicate the charging progress.

### Charging State LED

State of charge	1 <sup>ST</sup> LED	2 <sup>ND</sup> LED	3 <sup>RD</sup> 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.

**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.

Table 2-1a. Specifications and Features

Model		3215	3219	3220 / 3220m	3226 / 3226m
Weight Ω		2400lbs (1088 kg)	2580 lbs. (1170 kg)	3510 lbs. (1592 kg)	4135 lbs. (1876 kg)
Width		32.0" (0.81m)		32.9" (0.84m)	
Length		70.0" (1.78m)		91.5" (2.32m)	
Platform Size		26"x62" (0.66x1.57m)		28" x 84" (0.71x2.13m)	
Height	Stowed Platform	34.7" (0.88m)	39.2" (0.99m)	38.0" (0.97 m)	45.1" (1.15 m)
	Platform Elevated	15' (4.6m)	19' (5.8m)	20.00' (6.10m)	26.00' (7.92m)
	Working	21' (6.4m)	25' (7.6m)	26.00' (7.92m)	32.00' (9.75m)
Stowed Height Railings Up	ANSI	74" (1.88m)	78.4" (1.99m)	77.5" (1.97 m)	84.7" (2.15 m)
	CSA			79.75" (2.03 m)	87" (2.21 m)
	CE	78.4" (1.99m)	82.9" (2.11m)	82.0" (2.08 m)	89.2" (2.27 m)
Drive Height (All Standards)		FULL			
High Travel Speed		2 mph (3.2km/h)			2.4 mph (3.9 km/h)
Elevated Drive Speed		0.65mph (1.05 km/h)		.64 mph (1 km/h)	.66 mph (1.1 km/h)
High Torque Drive Speed		N/A		1.2 mph (1.9 km/h)	1.33 mph (2.14 km/h)
Lift time (No Load)		18 sec.	19.5 sec.	26.7 sec.	42.6 sec.
Lower Time (No Load)		32 sec.	39 sec.	40.6 sec.	52.5 sec.
Lift Time (Rated Load)		23 sec.	25 sec.	33 sec.	56 sec.
Lower Time (Rated Load)		24 sec.	29 sec.	29 sec.	42 sec.
Gradability		23%		25%	
Tires		12 x 4 x 8		16 x 5 x 12	
Solid Rubber					

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Ω Weight with standard 3' (0.9m) extension platform.  
(Refer to nameplate for machines with 5' (1.5m) or 6' (1.8m)  
extension platform, CE models and other options.)

Table 2-1b. Specifications and Features

Model		4620	4626	4632	6826	6832
Weight Ω		4100 lb (1860 kg)	4700 lb (2132 kg)	5068 lb (2299 kg)	5380 lb (2440 kg)	5680 lb (2576 kg)
Width		46" (1.17 m)			68" (1.73 m)	
Length		91" (2.31 m)			99.25" (2.52 m)	
Platform Size		42" x 83" (1.07x2.11m)			60" x 81" (1.53x2.05m)	
Height	Working	26' (7.92 m)	32' (9.75 m)	38' (11.6 m)	32' (9.75 m)	38' (11.6 m)
	Platform Elevated	20' (6.1 m)	26' (7.92 m)	32' (9.75 m)	26' (7.92 m)	32' (9.75 m)
	Fixed Railing	77.25" (1.96 m)	84.5" (2.15 m)	88" (2.24 m)	93.6" (2.37 m)	99.0" (2.51 m)
	Platform Lowered	38.0" (0.97 m)	45.0" (1.14 m)	48.5" (1.23 m)	50.0" (1.27 m)	55.3" (1.40 m)
Drive Height	ANSI	20' (6.10m)	26'* (7.92m)	32' (9.75 m)	26' (7.92m)	32' (9.75 m)
	CSA	20'*** (6.10m)			23'*** (7.01m)	23' (7.01m)
	CE					
High Travel Speed		2 mph (3.2 km/h)				
Elevated Drive Speed		0.56 mph (0.90 km/h)				0.4 mph (0.74 km/h)
High Torque Drive Speed		1 mph (1.6 km/h)				
Lift time (No Load)		25 sec.	48 sec.	51 sec.	N/A	57.6 sec.
Lower Time (No Load)		48 sec.	45 sec.	62 sec.	N/A	62.7 sec.
Lift Time (Rated Load)		33 sec.	55 sec.	59 sec.	65 sec.	60 sec.
Lower Time (Rated Load)		32 sec.	33 sec.	50 sec.	57 sec.	51 sec.
Gradability		25%				
Tires		16 x 5 x 12 Solid Rubber			23 x 10.5 x 12 Foam Filled <sup>1</sup>	

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\* 24' with Dual Power

\*\* 22' with Dual Power

\*\*\* 16' with Dual Power

Ω Weight with standard 3' (0.9m) extension platform. Refer to Serial Nameplate for specific applications.  
(Refer to nameplate for machines with 5' (1.5m) or 6' (1.8m) extension platform, CE models and other options.)  
Fill Hardness: 55 Durometer

Table 2-2. Floor Loading Pressure

Models		TOTAL MACHINE WEIGHT		TOTAL MACHINE LOAD					
				WHEEL		LCP**		OUP**	
		lbs	kg	lbs	kg	psi	KPa (kN/m <sup>2</sup> )	psf	KPa (kN/m <sup>2</sup> )
3215	min*	2400	1088	---	---	100	689.48	160	7.66
	max*	3000	1360	---	---	110	758.42	200	9.57
3219	min*	2580	1170	---	---	100	689.48	170	8.14
	max*	3130	1420	---	---	110	758.42	210	10.06
3220 3220 M	min*	3490	1583	---	---	110	758.42	175	8.38
	max*	4840	1991	---	---	130	896.32	245	11.73
3226 3226 M	min*	4110	1864	---	---	120	827.37	210	10.06
	max*	4610	2091	---	---	130	896.32	235	11.25
4620	min*	4100	1860	---	---	190.7	1314.83	145.3	6.96
	max*	5620	2549	---	---	222.8	1536.15	199.3	9.54
4626	min*	4700	2132	---	---	206.6	1424.46	167.7	8.03
	max*	5920	2685	---	---	223.6	1541.67	209.9	10.05
4632	min*	5068	2299	---	---	208.2	1435.49	179.7	8.6
	max*	5768	2616	---	---	220	1516.85	204.5	9.79
6826	min*	5220	2368	---	---	78	537.79	112.32	5.38
	max*	6420	2912	---	---	84	579.16	136.8	6.55
6832	min*	5870	2663	---	---	82	565.37	125.28	6
	max*	7070	3207	---	---	94	648.11	151.2	7.24

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\* 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**

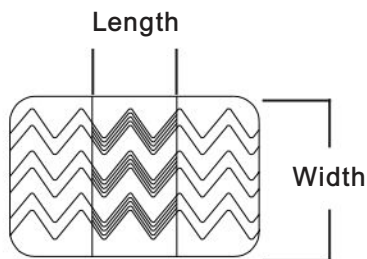
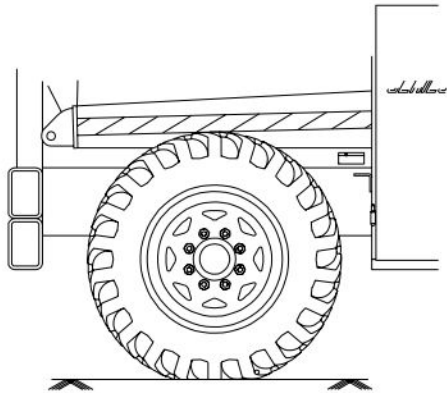
The LCP or OUP that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

## Floor Loading Pressure

Local Concentrated Pressure (LCP):

Foot Print Area = Length x Width

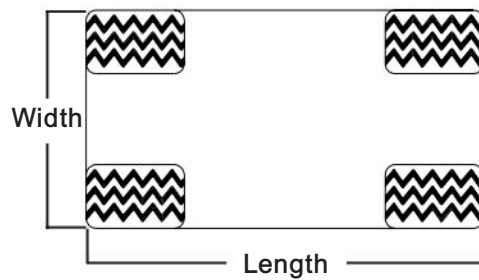
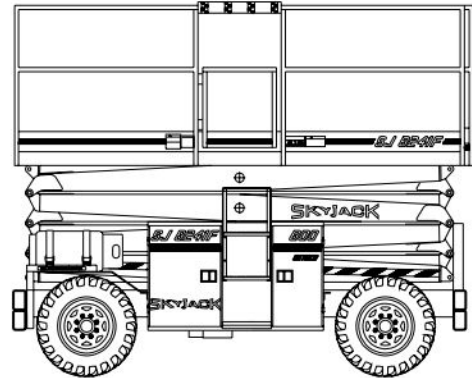
$$\text{LCP} = \frac{\text{Weight of Machine} + \text{Capacity (Lbs)}}{\text{Foot Print Area} \times 4 \text{ (Tires)}}$$



Overall Uniform Pressure (OUP):

Base Area = Length x Width

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

**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 2-3. 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								

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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 2-4. Maximum Platform Capacities (Evenly Distributed)

MODEL	Manual Extension Platform				Powered Extension Platform			
	Main Platform		Extension Platform		Main Platform		Extension Platform	
3215	250 lbs (113kg)	1 Person	250 lbs (113kg)	1 Person	N/A	N/A	N/A	N/A
3219	250 lbs (113kg)	1 Person	250 lbs (113kg)	1 Person	N/A	N/A	N/A	N/A
3220 3220 M	600 lbs (272 kg)	1 Person	300 lbs (136 kg)	1 Person	500 lbs (227 kg)	1 Person	300 lbs (136 kg)	1 Person
3226 3226 M	250 lbs (113 kg)	1 Person	250 lbs (113 kg)	1 Person	N/A	N/A	N/A	N/A
4620	1000 lbs (454 kg)	2 Person	300 lbs (136 kg)	1 Person	1000 lbs (454 kg)	2 Person	300 lbs (136 kg)	1 Person
4626	700 lbs (318 kg)	2 Person	300 lbs (136 kg)	1 Person	700 lbs (318 kg)	2 Person	300 lbs (136 kg)	1 Person
4632	450 lbs. (204 kg)	1 Person	250 lbs (113 kg)	1 Person	N/A	N/A	N/A	N/A
6826 (ANSI&CSA)	900 lbs (408 kg)	2 Person	300 lbs (136 kg)	1 Person	700 lbs (317 kg)	2 Person	300 lbs (136 kg)	1 Person
6826 (CE)	700 lbs* (317 kg)	2 Person	300 lbs (136 kg)	1 Person	700 lbs (317 kg)	2 Person	300 lbs (136 kg)	1 Person
6832	550 lbs** (249 kg)	2 Person	300 lbs (136 kg)	1 Person	550 lbs** (249 kg)	2 Person	300 lbs (136 kg)	1 Person

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



**Warning**

This aerial platform is equipped with a Overload 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.

### General Maintenance

Before attempting any repair work, disconnect the battery by turning the Battery Disconnect switches to the off position. Preventative 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*
<b>Mechanical</b>						
Structural damage/welds	A					A
Parking brake	B					B
Tires/wheels & fasteners	A, B, C					A, B, C
Guides/ rollers & slider pads	A, B, I					A, B, I
Railings/Entry chains/gates	A, B, C					A, B, C
Bolts and fasteners	C					C
Maintenance Support	B					B
Rust			A			A
Wheel Bearings and King Pins	A, B, E					A, B, E
Pothole Protection	A, B					A, B
Steering cylinder & tie rod				A, B, E		A, B, E
<b>Electrical</b>						
Battery fluid level	A					A
Control switches/Indicator Lights	A, B					A, B
Cords & wiring	A					A
Battery terminals	A, C		A, C			A, C
Generator/receptacle	A, B					A, B
Terminal and Plugs	C					C
Limit Switches	B					B
<b>Hydraulic</b>						
Hydraulic oil	H					H
Hydraulic hoses/fittings	A, L		C			A, C, L
Lift/lowering speeds				G		G
Cylinders		A, B				A, B
Emergency lowering	B					B
Lift capacity			D			D
Hydraulic oil & oil filter					F	F
<b>Miscellaneous</b>						
Labels & Manual	A, J, K					A, J, K
<b>Notes</b>						
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			

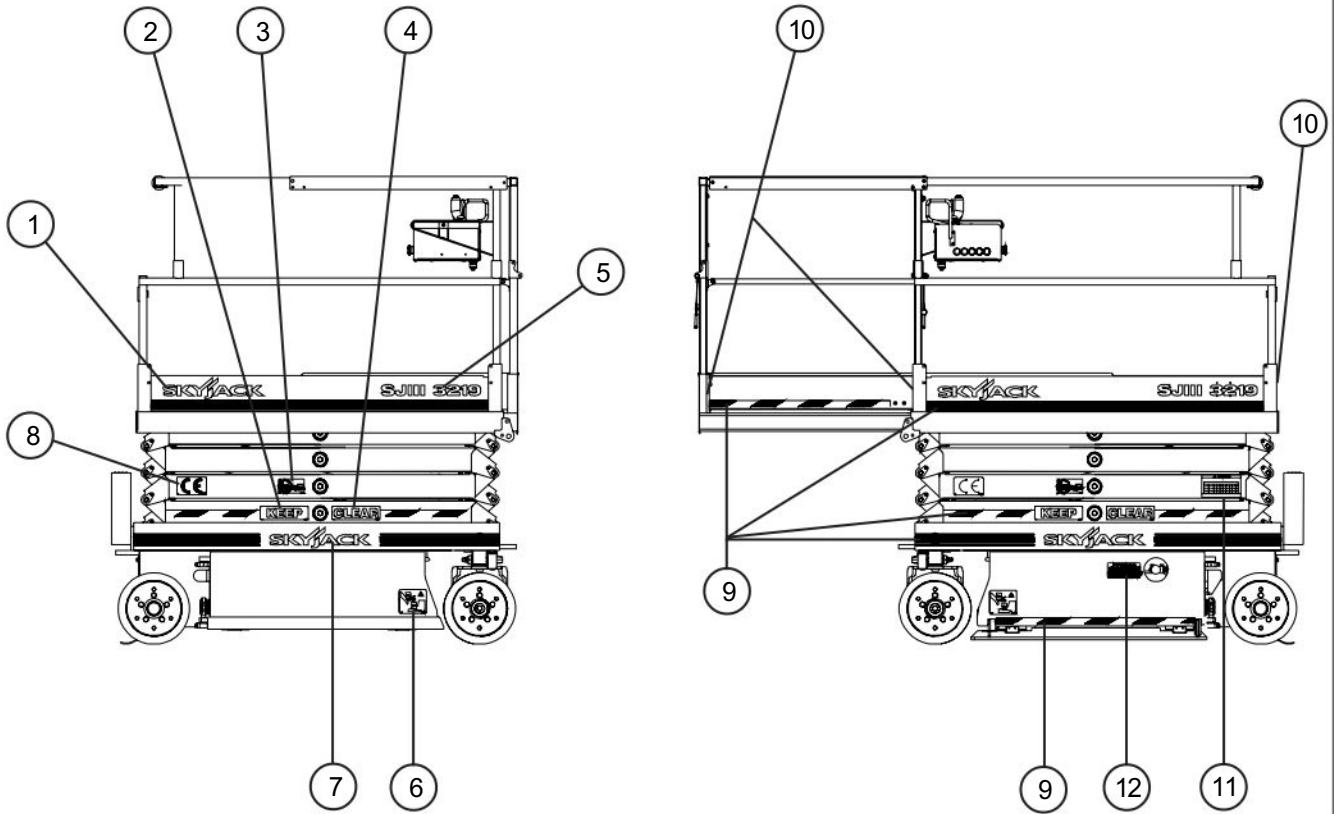
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**Warning**

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

Labels And Nameplates 3215/3219

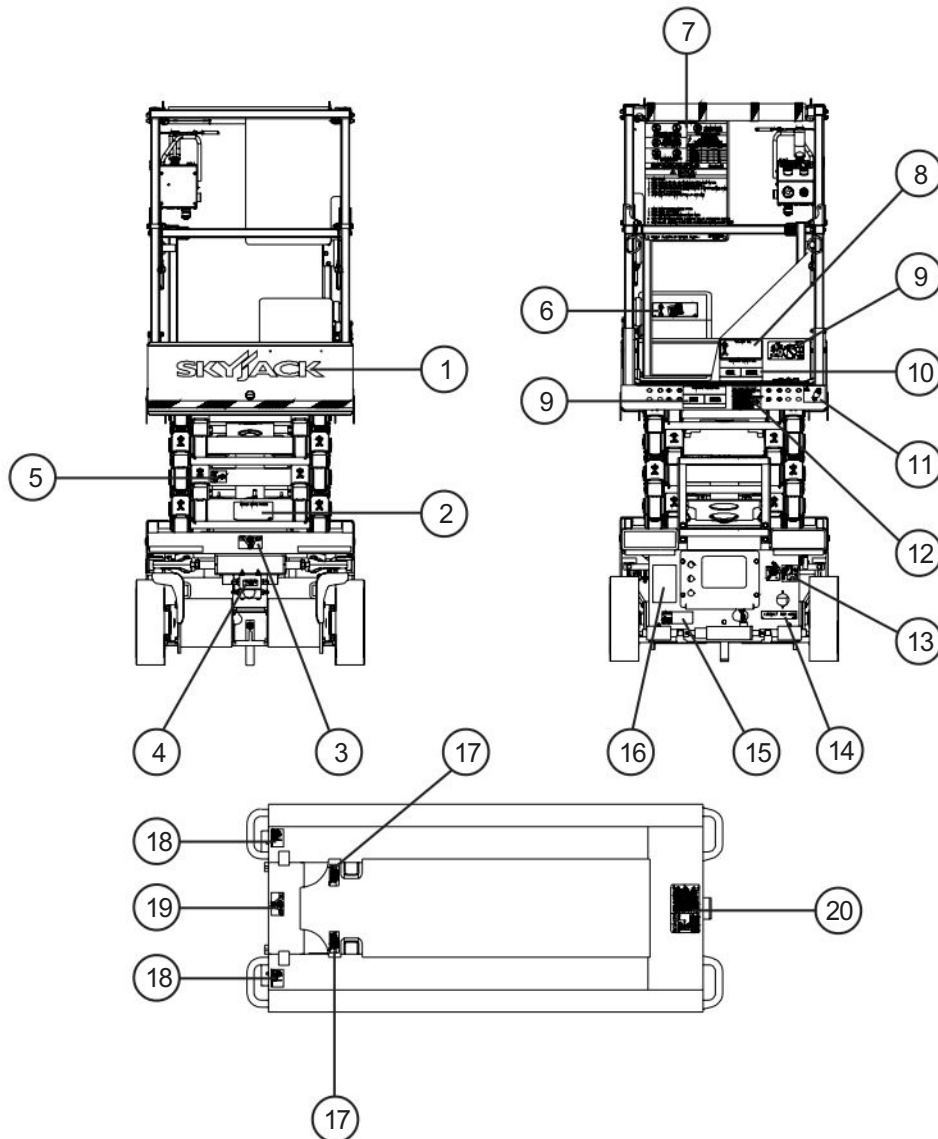


- 1 LABEL, Logo
- 2 LABEL, Keep
- 3 LABEL, Caution Lift
- 4 LABEL, Clear
- 5 LABEL, Model Designation
- 6 LABEL, Danger Pinch Hand/Foot

- 7 LABEL, Logo
- 8 LABEL, CE
- 9 LABEL, Tape Assembly
- 10 LABEL, Harness Anchorage
- 11 LABEL, Annual Inspection
- 12 LABEL, Emergency Lowering

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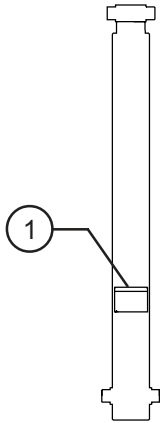
## Labels And Nameplates 3215/3219



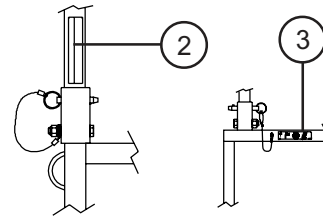
- |                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| 1 LABEL, Logo                         | 11 LABEL, Do Not Wear Jewelry                    |
| 2 LABEL, Emergency Lowering           | 12 LABEL, Checklist                              |
| 3 LABEL, Tie down/Lift lugs pictorial | 13 LABEL, Emergency Main Power Disconnect Switch |
| 4 LABEL, Free Wheeling Valve          | 14 LABEL, Connect AC Supply Here                 |
| 5 LABEL, Safety Bar                   | 15 LABEL, Caution, Brake                         |
| 6 LABEL, Manual Box                   | 16 NAMEPLATE, Serial Number                      |
| 7 LABEL, Danger/Warning/Caution       | 17 LABEL, Do Not Alter                           |
| 8 LABEL, On/Off Slab                  | 18 LABEL, Forklift Boot                          |
| 9 LABEL, Side Force/No Wind           | 19 LABEL, Tie Down/Lift Lugs Pictorial           |
| 10 LABEL, Platform Capacities         | 20 LABEL, Safety Bar                             |

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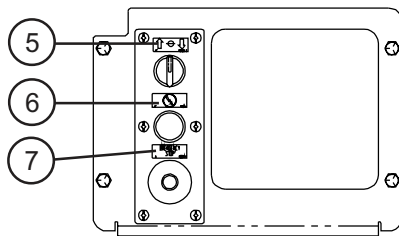
Labels And Nameplates 3215/3219



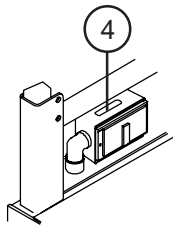
LIFT CYLINDER



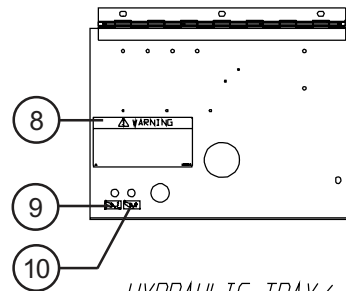
RAILING PINS



HYDRAULIC TRAY



Outlet Box

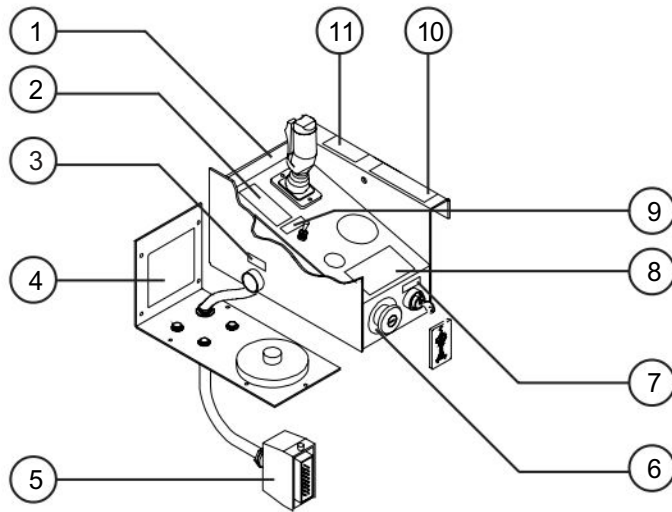


HYDRAULIC TRAY/  
ELECTRICAL PANEL

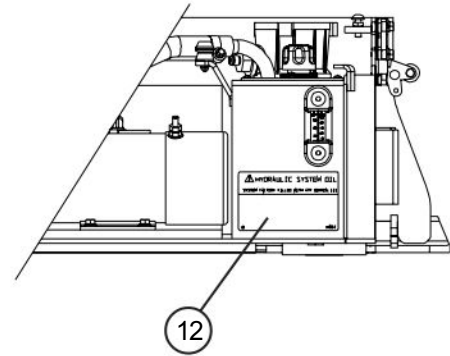
- |   |                                                     |    |                                  |
|---|-----------------------------------------------------|----|----------------------------------|
| 1 | LABEL, Orifice                                      | 6  | LABEL, Enable                    |
| 2 | LABEL, Warning! Falling Hazard                      | 7  | LABEL, Emergency Stop            |
| 3 | LABEL, Warning! Falling Hazard<br>(Hinged Railings) | 8  | LABEL, Warning Replacement Parts |
| 4 | LABEL, Connect AC Supply Here                       | 9  | LABEL, Ground Reset              |
| 5 | LABEL, Up/Off/Down                                  | 10 | LABEL, Power Reset               |

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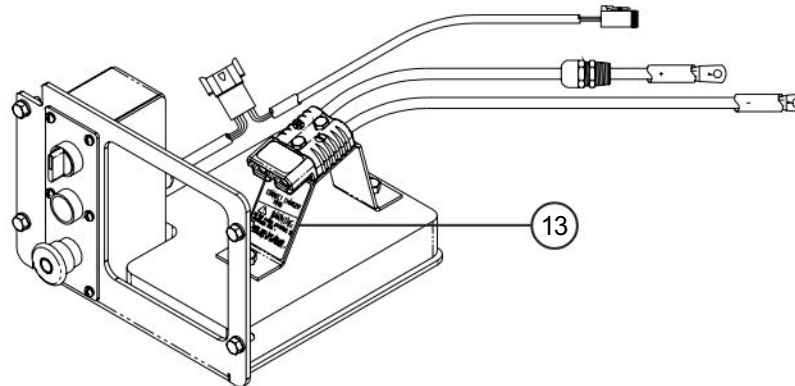
Labels And Nameplates 3215/3219



CONTROL BOX



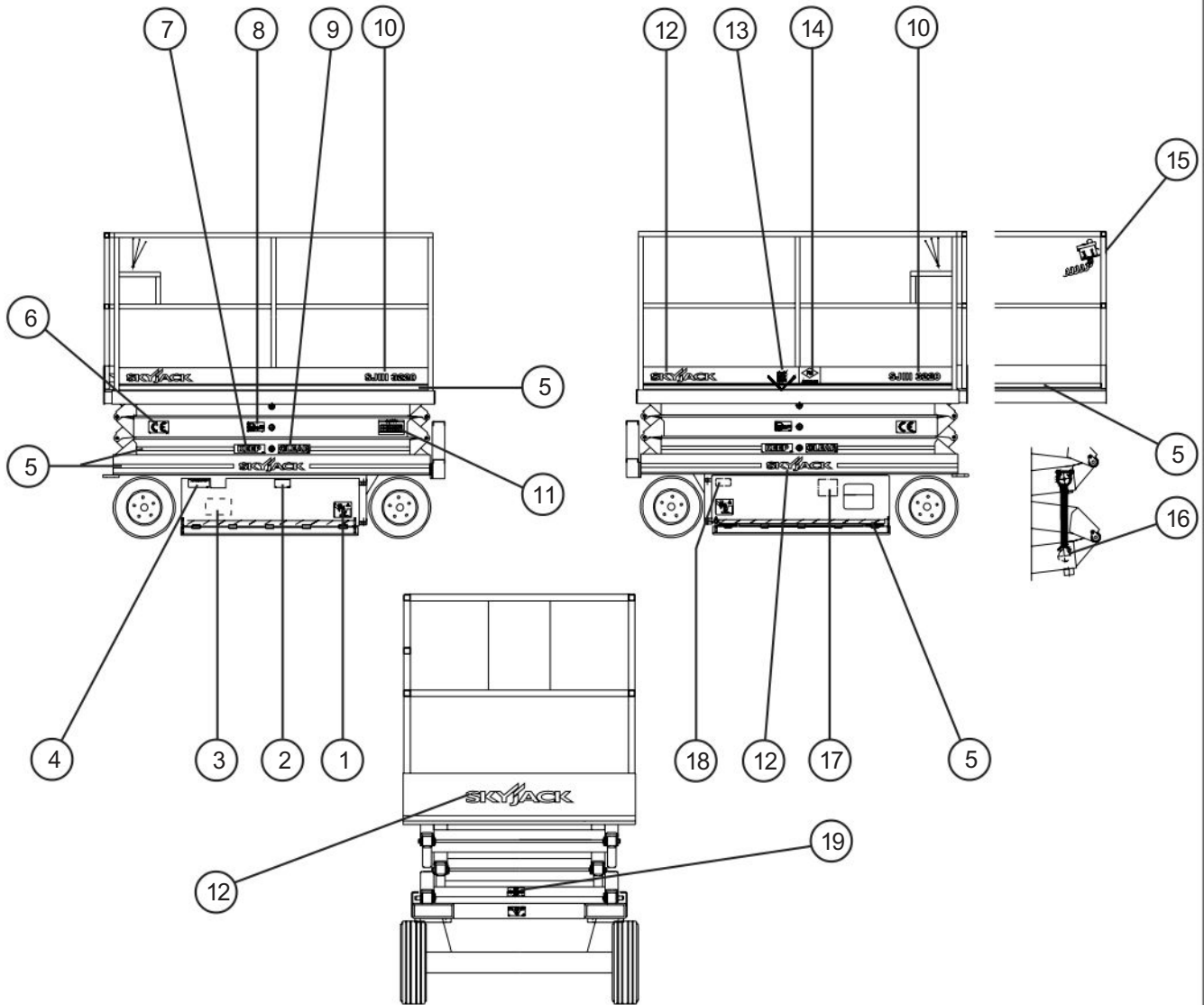
HYDRAULIC TRAY  
(ANSI/SIA & CSA model)



- |   |                               |    |                                     |
|---|-------------------------------|----|-------------------------------------|
| 1 | LABEL, Operations             | 8  | LABEL, Lift/Off/Drive Switch        |
| 2 | LABEL, Controller, Lift/Drive | 9  | LABEL, Operator Warning             |
| 3 | LABEL, Horn                   | 10 | LABEL, Falling Hazard (If Equipped) |
| 4 | LABEL, Joystick Connector     | 11 | LABEL, Enable Joystick              |
| 5 | LABEL, Hydraulic Proportional | 12 | LABEL, Hydraulic System             |
| 6 | LABEL, Emergency Stop         | 13 | LABEL, Connect Charger Here         |
| 7 | LABEL, Power Off/On           |    |                                     |

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Labels And Nameplates 3220/3226, 46XX, 68XX



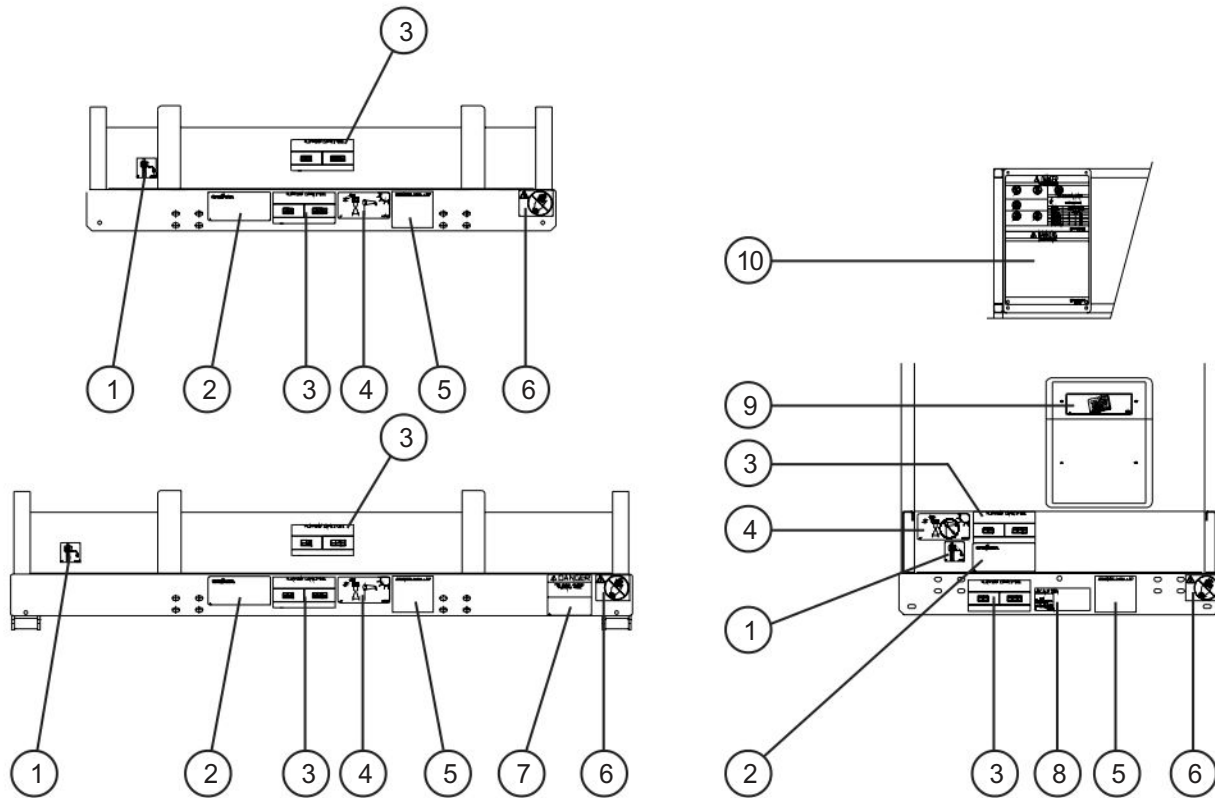
- 1 LABEL, Danger, Pinch Hand/Foot
- 2 LABEL, Push to "Down"
- 3 LABEL, Hydraulic System
- 4 LABEL, Emergency Lowering
- 5 LABEL, Tape Assembly
- 6 LABEL, "CE"
- 7 LABEL, Keep
- 8 LABEL, Caution Lift
- 9 LABEL, Clear
- 10 LABEL, Model Designation

- 11 LABEL, Annual Inspection
- 12 LABEL, Logo
- 13 LABEL, EE symbol\*
- 14 LABEL, FM approved\*
- 15 LABEL, Attention, Power Deck
- 16 LABEL, Safety Bar
- 17 LABEL, Warning Wood Spacers
- 18 LABEL, Fuse
- 19 LABEL, Place Safety Bar Here

\* EE-Rated Machines

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Labels And Nameplates 3220/3226, 46XX, 68XX

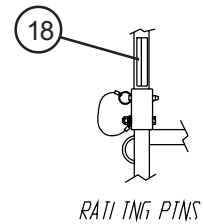
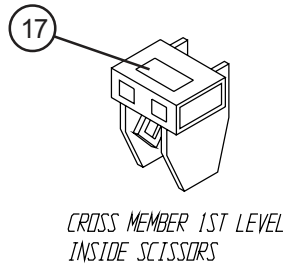
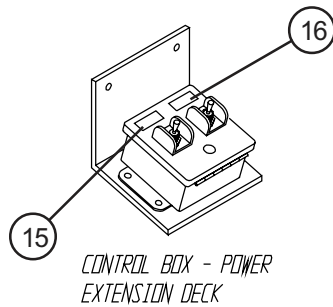
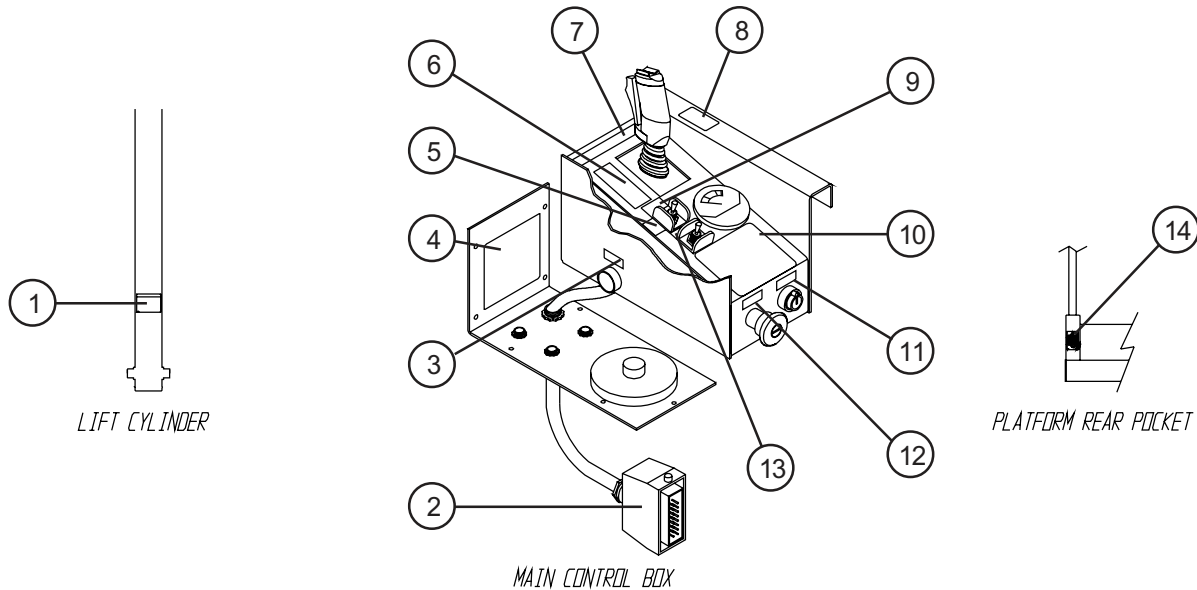


- 1 LABEL, Anchorage Harness
- 2 LABEL, On/Off Slab
- 3 LABEL, Platform Capacities
- 4 LABEL, Side Force/Outdoor
- 5 LABEL, Checklist
- 6 LABEL, Do Not Wear Jewelry
- 7 LABEL, Danger, Foam Filled Tires

- 8 LABEL, Caution, Brake
- 9 LABEL, Manual Box
- 10 LABEL, Danger/Warning/Caution
- 11 LABEL, Safety Bar
- 12 LABEL, Forklift Boot
- 13 LABEL, Tie Down/Lift Lugs pictorial
- 14 LABEL, Anchorage Harness

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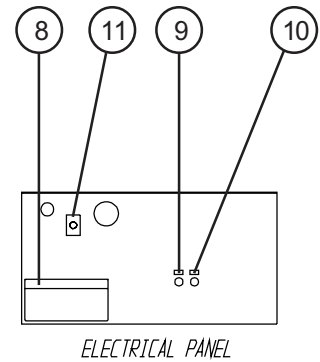
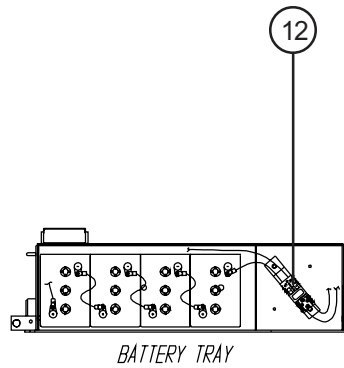
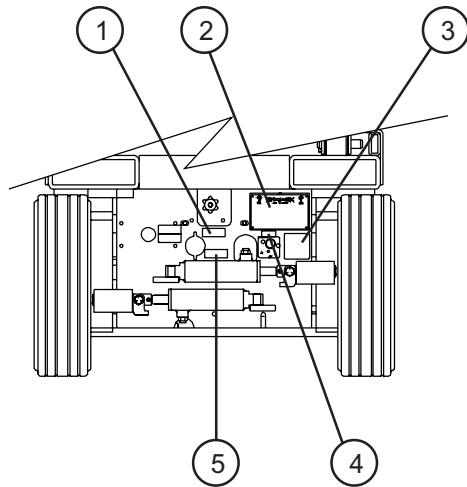
Labels And Nameplates 3220/3226, 46XX, 68XX



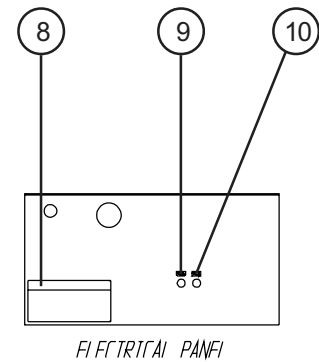
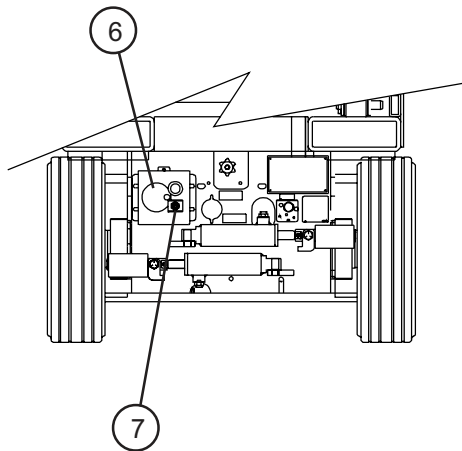
- |   |                               |    |                                         |
|---|-------------------------------|----|-----------------------------------------|
| 1 | LABEL, Orifice                | 10 | LABEL, Operator Warning                 |
| 2 | LABEL, Hydraulic Proportional | 11 | LABEL, Power On/Off                     |
| 3 | LABEL, Horn                   | 12 | LABEL, Emergency Stop                   |
| 4 | LABEL, Joystick Connector     | 13 | LABEL, Lift/on/drive Switch             |
| 5 | LABEL, High/normal Torque     | 14 | LABEL, Rail Height                      |
| 6 | LABEL, Controller, lift/Drive | 15 | LABEL, Enable (w/ powered extensions)   |
| 7 | LABEL, Operation              | 16 | LABEL, Platform Extend/Retract          |
| 8 | LABEL, Enable Joystick        | 17 | LABEL, Emergency Lowering               |
| 9 | LABEL, Torque Switch          | 18 | LABEL, Falling Hazard (w/ hinged rails) |

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Labels And Nameplates 3220/3226, 46XX, 68XX



ANSI/SIA & CSA Standards



"CE" Standards

- 1 LABEL, Free-Wheeling Valve
- 2 NAMEPLATE, Serial Number
- 3 LABEL, Emergency Main Power Disconnect Switch
- 4 LABEL, Power On/Off
- 5 LABEL, Connect AC Supply Here
- 6 LABEL, Emergency Stop

- 7 LABEL, Platform Extend/Retract
- 8 LABEL, Warning Replacement Parts
- 9 LABEL, Ground Reset
- 10 LABEL, Power Reset
- 11 LABEL, Up/Down (on electrical panel)
- 12 LABEL, Connect Charger Here\*

\* EE-Rated Machines

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MOBILE ELEVATING PLATFORMS

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