

## 3.0 Operation

This section provides the necessary information needed to operate the aerial platform. It is important that the user reads and understands this manual before operating the aerial platform.

### 3.1 General

In order for this aerial platform to be in good working condition, it is important that the operator meets the necessary qualifications and follow the maintenance and inspection schedule referred to in this manual.

#### 3.1-1 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, 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.

#### 3.1-2 Operator's Responsibility for Maintenance



#### **WARNING**

**Maintenance must be performed by trained and competent personnel who are familiar with mechanical procedures.**

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

- 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 and function tests found in [Table 4.6](#), even if the operator is not directly responsible for the maintenance of this aerial platform.

#### 3.1-3 Maintenance and Inspection Schedule

- The inspection points covered in [Table 4.6](#) 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.



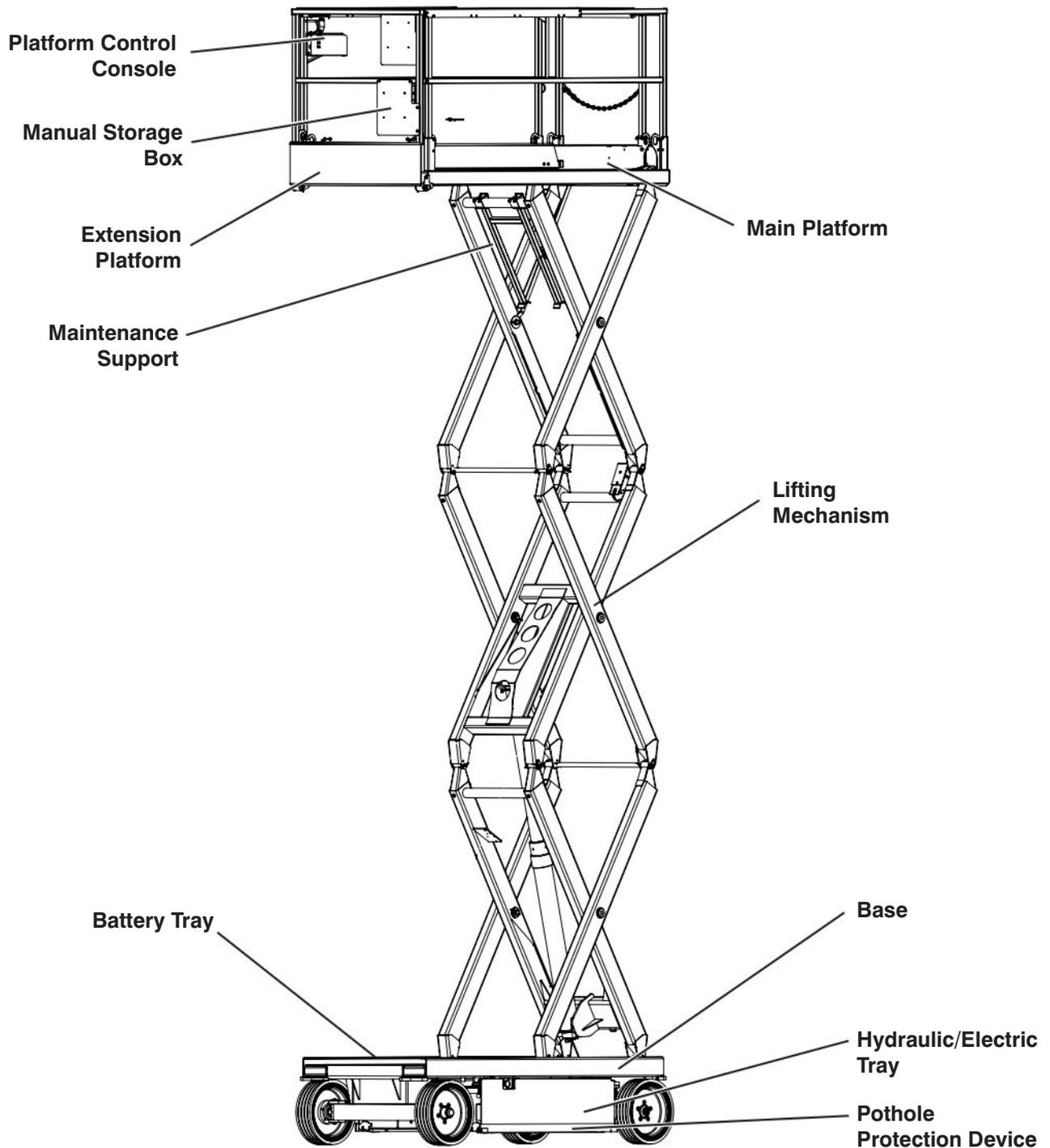
#### **WARNING**

**Use original or manufacturer-approved parts and components for the aerial platform.**

#### 3.1-4 Owner's Inspections

It is the responsibility of the owner to arrange daily, quarterly (or 150 hours) and annual inspections of the aerial platform. Refer to [Table 4.6](#) 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 4.2](#) in this manual.

3.2 Major Components



SKYJACK SJIII Series Aerial Platform

### 3.3 Major Assemblies

The aerial platform consists of three major assemblies: base, lifting mechanism and platform.

#### 3.3-1 Base

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

##### **SJIII 3215 & 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 aerial platform. The front axle has two hydraulic motor-driven wheels, steerable by a hydraulic cylinder. The rear axle is fixed and has non-driven, spring-applied, hydraulically released brake.

##### **SJIII 3220, 3226, 4626 & 4632:**

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 with spring-applied, hydraulically released brakes.

#### 3.3-2 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 pump, driven by an electric motor, provides hydraulic power to the lift cylinders.

#### 3.3-3 Platform

The platform is constructed of a tubular support frame, a skid-resistant "diamond plate" deck surface and 39" hinged guardrails with 6" toe boards and mid-rails. The platform can be entered from the rear through a spring-returned gate with latch. The platform is also equipped with a manual extension platform. An AC outlet is also located on the platform.

### 3.4 Serial Number Nameplate

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

- Model number
- Serial number
- Aerial platform 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

### 3.5 Component Identification

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

#### 3.5-1 Electrical Panel

This panel is located in the hydraulic/electric tray. It contains the following controls:

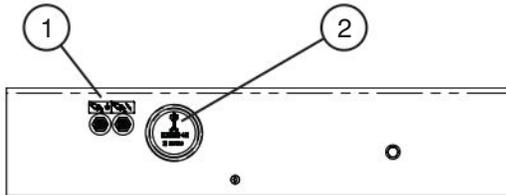


Figure 3-1. Electrical Panel

1. **Circuit Breaker Resets** - In the event of power overload or positive circuit grounding, the circuit breaker pops out. Push the breaker back in to reset.
2. **Hourmeter** - This gauge records accumulated operating time of the aerial platform.

#### 3.5-2 Battery Charger

The charger is located at the rear of the base or inside the battery tray. Refer to [Section 3.13-2](#) for battery charging operation.

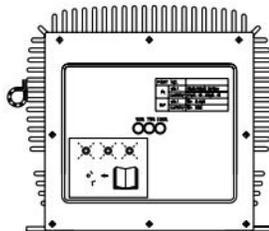


Figure 3-2. Battery Charger

#### 3.5-3 AC Outlet on Platform

This outlet is a source of AC power on the platform.



**WARNING**

**For EE rated aerial platform, do not use AC power in hazardous locations.**

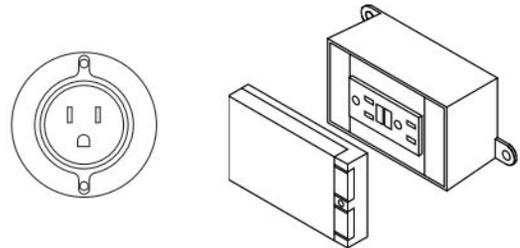


Figure 3-3. AC Outlet on Platform

#### 3.5-4 Pothole Protection Device

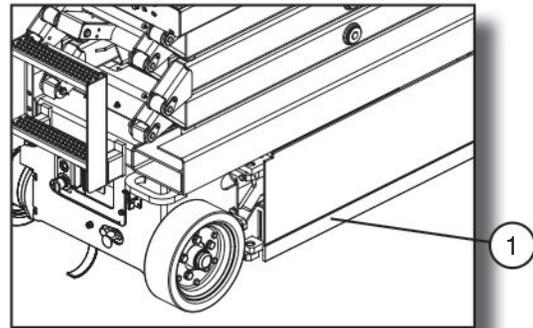


Figure 3-4. Pothole Protection Device

1. **Pothole Protection Device** - This device consists of a set of 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.

**WARNING**

**Crushing Hazard - Personnel on ground must stay clear of pothole protection device.**

**WARNING**

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

### 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 aerial platform encounters a “drop-off” or “pothole.” The nature of this safety feature relies on maintaining a consistent ground clearance, therefore, if the aerial platform 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.

### 3.5-5 Maintenance Support

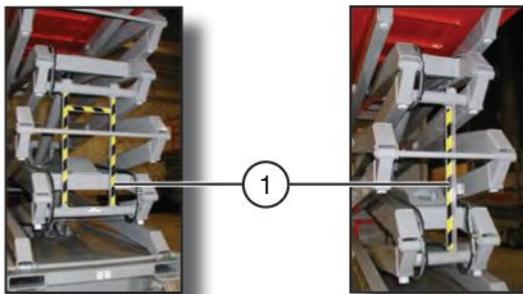


Figure 3-5. Maintenance Support

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. Refer to [Section 3.12](#) for procedure on how use and store the maintenance support.

**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.**

**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.**

**3.5-6 Manual Storage Box**

This weather-resistant box is mounted on the platform railings. It contains operating manual, ANSI manual of responsibility and ANSI/CSA certificate. The operating manual for this make and model of aerial platform must remain with the aerial platform and should be stored in this box.



**3.5-8 Lanyard Attachment Anchorage**

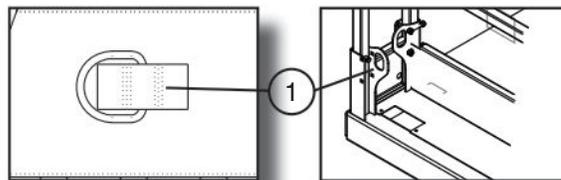


Figure 3-7. Lanyard Attachment Anchorage

**3.5-7 Folding Guardrail System**

This system, when folded down, reduces the height of the retracted aerial platform for transporting and traveling through doorways only. Refer to Section 3.9 for guardrail folding procedure.

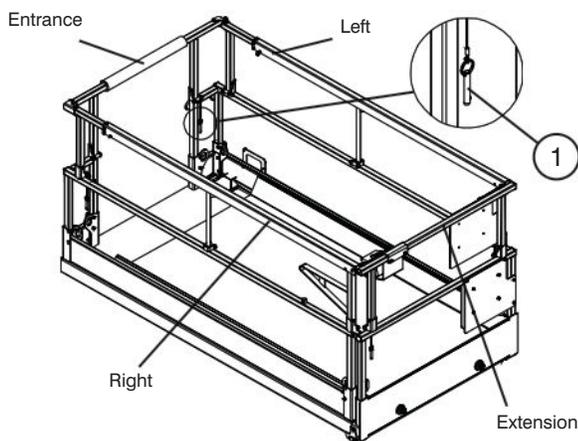


Figure 3-6. Folding Guardrail System

- Lanyard Attachment Anchorage** - Use this 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 point to lift, anchor, secure or support the platform or any other apparatus or material.



**WARNING**

The lanyard attachment anchorage 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.

- Guardrail Locking Pin with Lanyard** - This pin is used to lock the guardrail in place.



**WARNING**

The scissor assembly must be fully lowered before raising or lowering the guardrails.

### 3.6 Component Identification (Optional Equipment/Attachments)

This section describes the components that are optional to aerial platforms.

#### 3.6-1 Powered Extension Control Console (If Equipped)

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

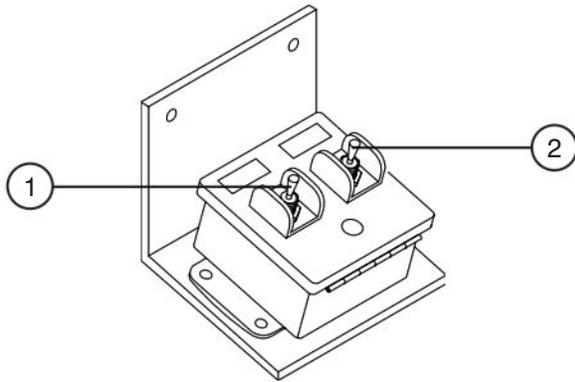


Figure 3-8. Powered Extension Control Console

1. **Enable Switch** - This switch, when activated and held, allows the extension platform extend/retract switch functions to operate.
2. **Extend/Retract Switch** - This switch, when activated, “” extends or “” retracts the powered extension platform. Refer to [Section 3.8-9](#) on how to extend/retract the powered extension platform.

#### 3.6-2 1500W AC Inverter (If Equipped)

The inverter is located on the base of the aerial platform. It has the following controls:

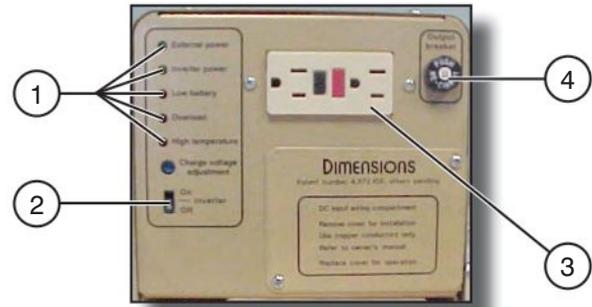


Figure 3-9. 1500W AC Inverter

#### NOTE

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

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

#### 3.6-3 Motion Alarm (If Equipped)

The alarm produces an audible sound when any control function is selected. On aerial platforms with certain options, a flashing amber light will accompany this alarm.

**3.6-4 Using Optional Control Box with Long Cable from Ground:**



**WARNING**

Skyjack scissor lifts are to be operated from the operator’s position on the platform with the control box secured on the mounting bracket at the front right portion of the platform. Operation of the unit from the ground is permissible only when maintaining the lift or, in limited circumstances, when an obstruction precludes the safe operation of the lift from the operator’s position on the platform. Operation from the ground is to be performed as set forth in the Operating Manual.

1. Before operating this aerial platform, perform the following steps:
  - Visual and daily maintenance inspections (see Section 2.3)
  - Function tests (see Section 2.4).
2. Ensure the platform is in the fully-stowed (lowered) position.



**WARNING**

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

3. Disconnect and remove platform control console from the mounting bracket at the front right portion of the platform.



**WARNING**

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

**Operation from the Ground:**

4. The control box with long cable may be connected to the lower base control connector or to the platform control connector.

**NOTE**

For some models, the connection is located beneath an access panel which requires that the scissor assembly be raised to access it.

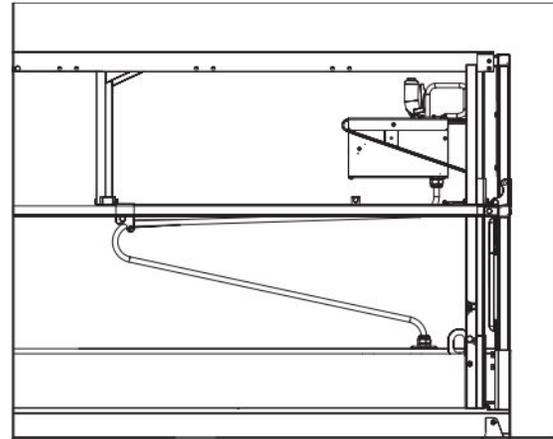


Figure 3-10. Control Box with Long Cable

**WARNING**

- **Ensure the operator and control box console are properly oriented in the direction the aerial platform is facing (see Figure 3-11).**
  - **Do not drive the aerial platform toward yourself.**
  - **Avoid crushing hazards; stand clear from the aerial platform and out of the direction of travel.**
  - **During loading/unloading operations using a ramp, ensure all personnel (including operator) stand away from the direction of any potential fall-over of the aerial platform from the ramp or movement of the aerial platform down the ramp.**
  - **Ensure that the control box with long cable does not become entangled with the aerial platform or any surrounding objects.**
5. Perform a thorough jobsite inspection prior to operating the aerial platform to identify potential hazards in your work area.

6. Cordon-off the pathway in which you intend to travel.
7. Ensure there are no personnel in the intended path of travel.
8. Notify those around the pathway that you will be moving the aerial platform.
9. Use a spotter to guide movement where necessary. Ensure the spotter remains at a safe distance.
10. Once safely reached your destination, push in emergency stop button and turn main power disconnect switch to “O” off position.

**WARNING**

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

11. Mount the platform control console to mounting bracket at the front right portion of the platform.

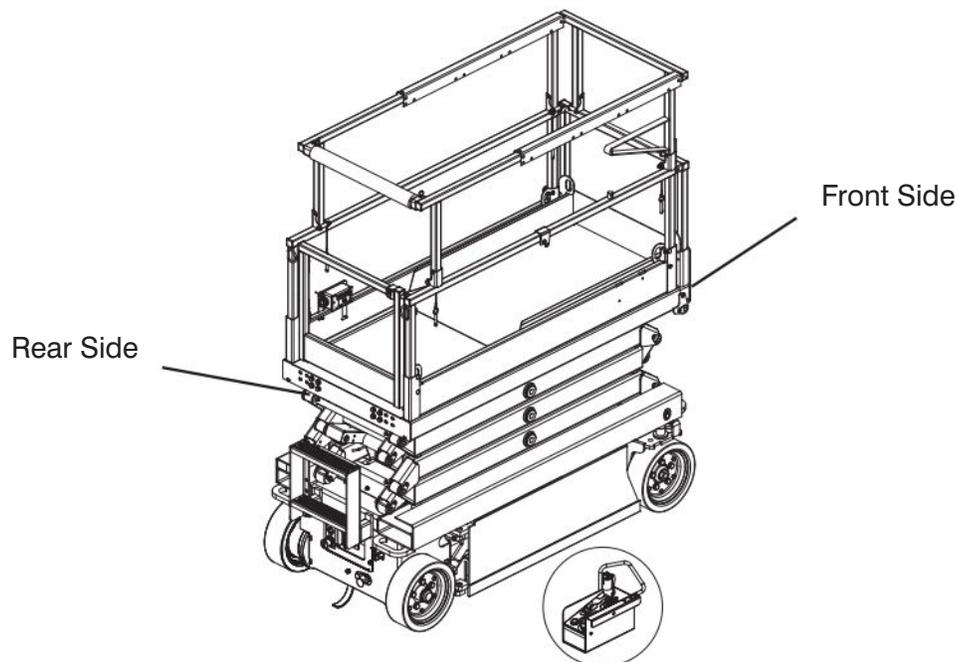


Figure 3-11. Control Box with Long Cable Outside Platform

### 3.7 Operator's Responsibility

It is the responsibility of the operator, prior to each work shift, to perform the following:

#### 1. Visual and Daily Maintenance Inspections

- are designed to discover any damage of components before the aerial platform is put into service.
- are done before the operator performs the function tests.



#### **WARNING**

**Failure to locate and repair damage, and discover loose or missing parts may result in an unsafe operating condition.**

#### 2. Function Tests

- are designed to discover any malfunctions before the aerial platform is put into service.

#### **IMPORTANT**

**The operator must understand and follow the step-by-step instructions to test all aerial platform functions.**

The operator should make a copy of the Operator's Checklist (see Table 4.7) and fill out the visual and daily maintenance inspections and the function tests sections while performing the items outlined in Section 2.3 and Section 2.4.

#### **IMPORTANT**

**If aerial platform is damaged or any unauthorized variation from factory-delivered condition is discovered, aerial platform must be tagged and removed from service.**

Repairs to the aerial platform may only be made by a qualified service technician. After repairs are completed, the operator must perform visual and daily maintenance inspections & function tests again.

Scheduled maintenance inspections shall only be performed by qualified service technician (see Table 4.6).

### 3.8 Start Operation

Carefully read and completely understand the operating manual and all warnings and instruction labels (refer to [Section 5 - Labels](#)) on the aerial platform.



#### **WARNING**

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

Before operating this aerial platform, perform the following steps:

1. Visual and daily maintenance inspections (see [Section 2.3](#))
2. Function tests (see [Section 2.4](#))
3. Job site inspection

It is the responsibility of the operator to perform a job site inspection and avoid the following hazardous situations:

- holes or drop-offs
- ditches or soft fills
- floor obstructions, bumps or debris
- overhead obstructions
- electrical cords, hoses and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the aerial platform
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions



#### **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.**

#### 3.8-1 To Activate Base Control Console



#### **WARNING**

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

1. Use the ladder of aerial platform to access platform.
2. Close the gate.
3. On platform control console, pull out “” emergency stop button.
4. Use the ladder to dismount from platform.
5. Turn main power disconnect switch to “” on position.
6. On base control console, pull out “” emergency stop button.

#### 3.8-2 To Raise or Lower Platform Using Base Control Console



#### **WARNING**

**Be aware of overhead obstructions or other possible hazards around the aerial platform when lifting.**



#### **WARNING**

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

1. Activate base control console (refer to [Section 3.8-1](#)).
2. Select and hold off/platform/base key switch to “” base position.
3. Select and hold lower/neutral/raise switch to either “” raise or “” lower position. Release switch to stop.

**3.8-3 To Activate Platform Control Console**

1. Turn main power disconnect switch to “I” on position.
2. On base control console, pull out “” emergency stop button.
3. Select off/platform/base key switch to “” platform position.



**WARNING**

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

4. Use the ladder of aerial platform to access platform.
5. Close the gate.
6. On platform control console, pull out “” emergency stop button.

**3.8-4 To Raise or Lower Platform Using Platform Control Console**



**WARNING**

**Be aware of overhead obstructions or other possible hazards around the aerial platform when lifting.**



**WARNING**

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

1. Activate platform control console (refer to [Section 3.8-3](#)).
2. Select lift/off/drive switch to “” lift position.
3. Activate and hold “” enable trigger switch.
4. Move controller handle forward or backward until desired height is reached.

**NOTE**

Lowering is not proportional.

5. Return controller to neutral center position to stop. Release “” 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 completely and ensure that the aerial platform is on a firm level surface.

## 3.8-5 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. Activate platform control console (refer to [Section 3.8-3](#)).
2. Select lift/off/drive switch to “” drive position.
3. Activate and hold “” enable trigger switch.
4. Move controller handle “” forward/up or “” backward/down to desired speed and direction of aerial platform travel.
5. Return controller to neutral center position to stop.  
Release “” 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.

## 3.8-6 To Steer

1. Activate platform control console (refer to [Section 3.8-3](#)).
2. Select lift/off/drive switch to “” drive position.
3. Activate and hold “” enable trigger switch.
4. Press “” rocker switch on top of controller handle in either direction to steer.

**NOTE**

Steering is not proportional. Driving and steering may be active at the same time.

**3.8-7 To Select Level Drive or Inclined Drive Mode (If Equipped)**

**1. Level Drive Mode**

Select level drive mode when traveling on flat surface.

To activate level drive mode, select inclined drive/level drive switch to “” level drive (high speed/low torque) position.



**WARNING**

**Aerial platform must be in fully retracted position when operated on any grade. Driving while elevated on any grade may result in death or serious injury.**

**2. Inclined Drive Mode**

Select inclined drive mode when climbing grades or when loading or unloading the aerial platform.

To activate inclined drive mode, select inclined drive/level drive switch to “” inclined drive (low speed/high torque) position.



**WARNING**

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

**3.8-8 To Extend/Retract Manual Extension Platform**



**DANGER**

**Crushing Hazard - Extension platform must not be retracted manually from the ground.**

- To extend/retract manual extension platform, remove retaining locking pins and push/pull extension platform using the push bar or sliding handrails to one of four or five desired locking positions.
- Upon extension or retraction, reinsert locking pins. Insert pin on one side of aerial platform in front of upright bar and the pin on the other side of aerial platform behind the upright bar to prevent accidental movement, in either direction, of manual extension platform during travel or transport. Refer to [Figure 3-12](#) for a configuration example.

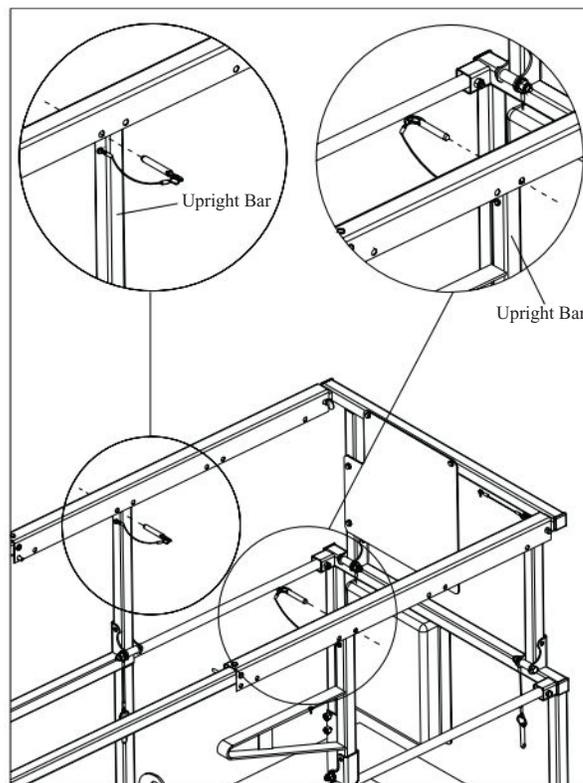


Figure 3-12. Variable Position Manual Extension Platform

### 3.8-9 To Extend/Retract Powered Extension Platform (If Equipped)

1. To extend/retract powered extension platform, ensure “” emergency stop button is pulled out.
2. Select lift/off/drive switch to “” lift position.
3. On powered extension control console, press and hold “” enable switch, then push extend/retract switch to “” extend position. Release switch to stop.
4. To retract extension platform, press and hold “” enable switch, then push extend/retract switch to “” retract position. Release switch to stop.



#### **WARNING**

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

### 3.8-10 Electrical Inverter (If Equipped)

1. Turn main power disconnect switch to “” on position.
2. Make sure on/off switch of the inverter is “” on position.
3. Inverter state is indicated by the LEDs on the face of the inverter. A glowing green LED indicates normal operation. If a fault occurs, the status LEDs will indicate the area responsible.



#### **CAUTION**

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

### 3.8-11 Shutdown Procedure

1. Completely lower the platform.
2. On platform control console, push in “” emergency stop button.



#### **WARNING**

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

3. Use the ladder to dismount from platform.
4. On base control console, select off/platform/base key switch to “” off position and remove the key.
5. Turn main power disconnect switch to “” off position.

### 3.9 Guardrail Folding Procedure

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



#### **WARNING**

**Any lowered guardrail will create a fall hazard. Remain away from the side of the platform while raising or lowering the guardrails to avoid falling.**

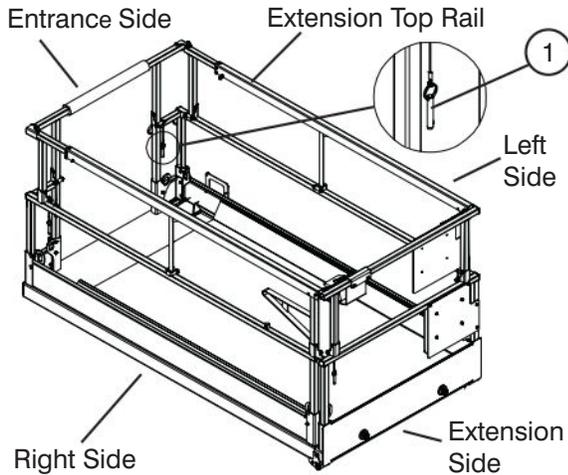


Figure 3-13a. Folding Guardrail System

1. **Guardrail Locking Pin with Lanyard** - This pin is used to lock the guardrail in place.



#### **WARNING**

**The scissor assembly must be fully lowered before raising or lowering the guardrails.**



#### **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.**

### To fold the guardrail system down:

1. Ensure aerial platform is on level ground.
2. Ensure extension platform is fully retracted.
3. Ensure Emergency Stop button is depressed.
4. Turn main power disconnect switch to “○” off position.



#### **WARNING**

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

5. Use the ladder of aerial platform to access platform.
6. Close the gate.
7. Remove the platform control console and lay it down on the platform.



#### **WARNING**

**Any lowered guardrail will create a fall hazard. Use caution when exiting or entering the platform when the guardrails are lowered.**

8. Remove left and right side pins A and B (if equipped). (Refer to Figure 3-13b):

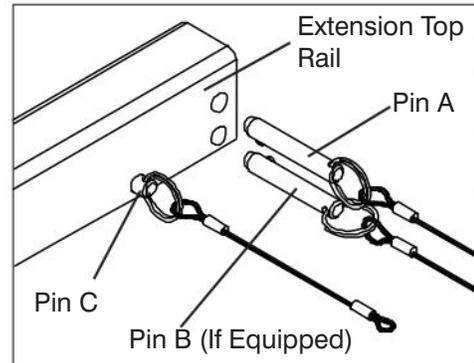


Figure 3-13b. Extension Top Rail Pins



#### **WARNING**

**Ensure pin C is in place and secured to the Extension Top Rail.**

- Remove remaining pins from all sides and carefully fold all guardrails in the following order:

**SJIII 32xx**

- Entrance**  
Use tie wrap to secure entrance bar to left guardrail.
- Right Side**
- Left Side**
- Extension**  
Lock extension guardrail into place on the mounting post. Ensure that the detent ball of the pin is all the way through. (Refer to Figure 3-13c)

**SJIII 46xx**

- Right Side**
- Left Side**
- Entrance**
- Extension**  
Lock extension guardrail into place on the mounting post. Ensure that the detent ball of the pin is all the way through. (Refer to Figure 3-13c)

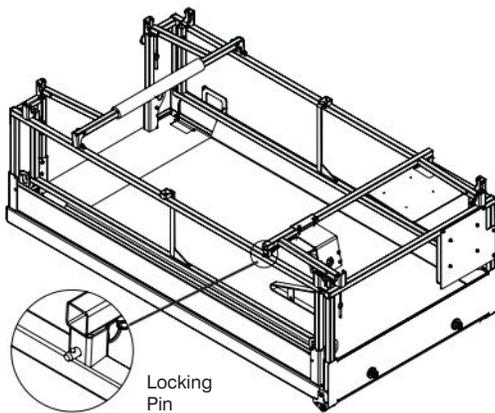


Figure 3-13c. All Guardrails Folded Down

**WARNING**

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

**To raise the guardrail system up:**

- Ensure aerial platform is on level ground.
- Ensure extension platform is fully retracted.
- Ensure Emergency Stop button is depressed.
- Turn main power disconnect switch to “○” off position.

**WARNING**

Any lowered guardrail will create a fall hazard. Use caution when exiting or entering the platform when the guardrails are lowered.

**WARNING**

The scissor assembly must be fully lowered before raising or lowering the guardrails.

**WARNING**

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

- Use the ladder of aerial platform to access platform.
- Remove locking pin from mounting post and carefully raise extension guardrail up and lock into place with locking pins ensuring that the detent ball of each pin is all the way through (Refer to Figure 3-13c).
- Carefully raise each guardrail up and lock into place with locking pins ensuring that the detent ball of each pin is all the way through (Refer to Figure 3-13a).
- Mount the platform control console at the front right of the platform. Lock it in place.

**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.

**3.10 Loading/Unloading**

Know and heed 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 aerial platform is being loaded/unloaded.

**3.10-1 Lifting**



**WARNING**

**Only qualified rigger shall operate machinery during 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 “O” off position.
- The hydraulic/electric and battery trays must be closed and securely latched.
- The extension platform must be retracted and secured.
- The platform control console 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 3-14](#).

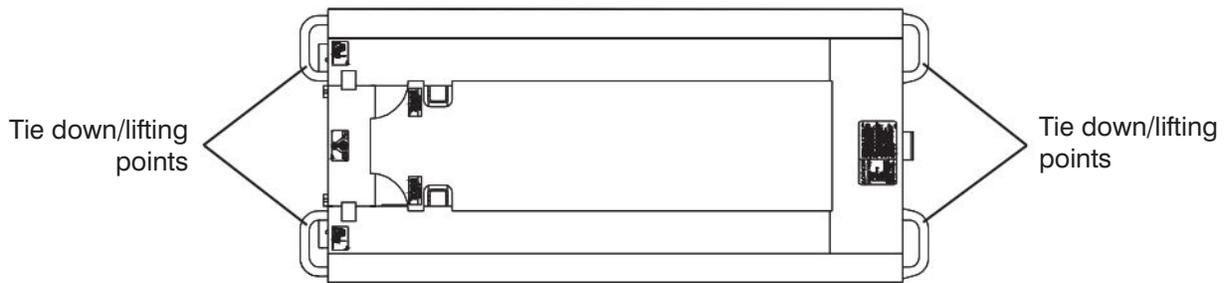


Figure 3-14. Tie Downs/Lifting Points



Figure 3-15. Center of Gravity

**NOTE**

The mass of the aerial platform is as per [Table 4-3a.](#) or [Table 4-3b.](#) 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 3-15.](#) Vertically, the center of gravity is approximately just above the base chassis.

**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 3-16.](#)

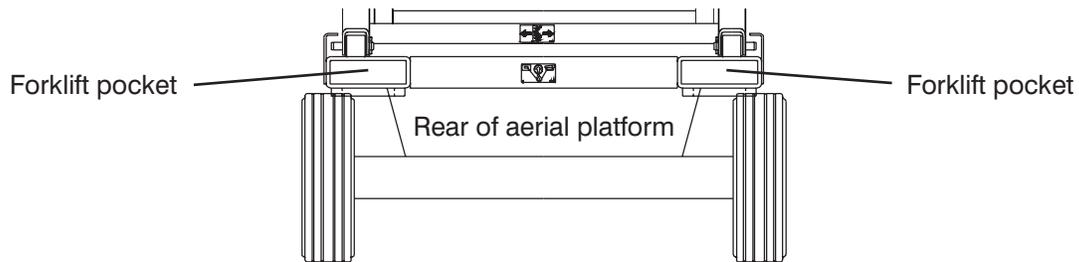
**3.10-2 Driving**

Before driving the aerial platform:

- Ramp or dock capacity should be sufficient to withstand maximum aerial platform weight.
- Ramp should be equipped with side guards to prevent inadvertent fall from the ramp.
- Incline should not exceed aerial platform gradeability (refer to [Table 4-3a](#) or [Table 4-3b](#)).
- Aerial platform brakes should be checked for proper operation.
- Aerial platform speed should be on high torque setting (if equipped).

**WARNING**

**When transporting, the aerial platform must be secured to the truck or trailer deck. Tie downs are available as illustrated in [Figure 3-14.](#)**



*Figure 3-16. Forklift Pockets*

### 3.11 Moving the Aerial Platform Through a Doorway



#### WARNING

**This procedure is suitable for level ground only.**

1. Confirm that the height/width of the doorway is sufficient to allow the aerial platform to pass through.

#### NOTE

If it is necessary to fold the guardrails, refer to [Section 3.9](#) for guardrail folding procedure.

2. Perform a thorough job site inspection prior to operating the aerial platform to identify potential hazards in your work area.
3. Cordon-off the pathway which you intend to travel.
4. Position the aerial platform to allow all future motion, including through the doorway, to be in a forward direction.
5. Turn main power disconnect switch to “○” off position.
6. Use the ladder of aerial platform to access platform.



#### WARNING

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

7. Close the gate. On platform control console, push in “●” emergency stop button.
8. Disconnect and remove platform control console from the platform.
9. Fold the guardrails if necessary. Refer to [Section 3.9](#) for guardrail folding procedure.
10. Use the ladder to dismount from platform.

11. Connect platform control console to the connection at the rear of the base.

#### NOTE

For some models, the connection is located beneath an access panel which requires that the scissor assembly be raised to access it.

12. Ensure there are no personnel in the intended path of travel.
13. Notify those around the pathway that you will be moving the aerial platform.
14. Use a spotter to guide movement. Ensure the spotter remains at a safe distance.
15. Ensure that platform control console is properly oriented in the direction the aerial platform is facing.
16. Turn main power disconnect switch to “|” on position.
17. On base control console, pull out “●” emergency stop button.
18. Select base/off/platform key switch to “” platform position.
19. On platform control console, pull out “●” emergency stop button.
20. Select lift/off/drive switch to “” drive position. Select inclined drive/level drive switch to “” inclined drive (low speed/high torque) position for reduced speed.



#### WARNING

**Do not drive the aerial platform toward yourself.**

21. Using as low a speed as practical and the operator positioned behind the aerial platform, drive forward through doorway.

22. Once safely through doorway, push in “” emergency stop button and turn main power disconnect switch to “” off position.
23. Disconnect platform control console and return it to the platform.

**WARNING**

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

24. Return guardrails to upright position if folded. Refer to [Section 3.9](#) for guardrail folding procedure.

**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.**

25. Once the platform control console is securely reconnected and guardrails up, normal operation may continue.