SKYJACK™

OPERATING MANUAL
ANSI & CSA

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



SJIII Series

The Compacts and Conventionals

Models 32xx, 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 **44-1691-676-235**
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K ..... *FAX 44-1691- 676-239*

129918AF-A Printed in Canada April 2006

MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >

Table of Contents

Read and Heed

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

Section 1 - About Your Aerial Platform

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

Section 2 - Operation

2.1 General 15
2.1-1 Operator Qualifications 15
2.1-2 Operator's Responsibility for Maintenance 15
2.1-3 Maintenance and Inspection Schedule 15
2.1-4 Owner's Inspections 15
2.2 Component Identification 16
2.2-1 Emergency Main Power Disconnect Switch 16
2.2-2 Motion Alarm 16
2.2-3 Tilt Alarm 16
2.2-4 Base Controls 16
2.2-5 Parking Brake System 17
2.2-6 Free-Wheeling Valve 17
2.2-7 Battery Charger 17
2.2-8 Pothole Protection Device 18
2.2-9 Emergency Lowering System 18
2.2-10 Maintenance Support 19
2.2-11 Operator's Control Box 20
2.2-12 AC Outlet on Platform 20
2.2-13 Folding Guardrail System 20
2.2-14 Lanyard Attachment Ring 21
2.3 Component Identification (Special Options) 22
2.3-1 Power Extension Deck Control Box (If Equipped) 22
2.3-2 1500W AC Inverter (If Equipped) 22





MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >

Table of Contents

Section 2 - Continued

2.4 Setup Procedure 23
2.5 Start Operation 25
2.5-1 Pre-Start Inspection 25
2.5-2 Operator's Checklist 25
2.5-3 To Raise the Platform using the Base Controls 26
2.5-4 To Lower the Platform using the Base Controls 26
2.5-5 To Raise the Platform using the Operator's Control Box 26
2.5-6 To Lower the Platform using the Operator's Control Box 27
2.5-7 To Drive Forward or Backward 27
2.5-8 To Steer 28
2.5-9 To Select Drive Torque (If Equipped) 28
2.5-10 To Extend/Retract the Manual Extension Deck 28
2.5-11 To Extend/Retract the Powered Extension Deck (If Equipped) 29
2.5-12 Electrical Inverter (If Equipped) 29
2.5-13 Shutdown Procedure 29
2.6 Loading/Unloading 30
2.6-1 Lifting 30
2.6-2 Driving 31
2.7 Winching and Towing Procedures 32
2.7-1 To Release the Free-Wheeling Valve 32
2.7-2 To Release the Parking Brakes Manually 33
2.7-2a Pin Brakes System 33
2.7-2b Disc Brakes System 33
2.8 Emergency Lowering Procedure 34
2.9 Battery Maintenance 35
2.9-1 Battery Service Procedures 35
2.9-2 Battery Charging Operation 35
2.10 Tables 38
2.11 Labels 44

List of Tables

Table 2-1. Specifications and Features 38
Table 2-2. Floor Loading Pressure 40
Table 2-3. Owner's Annual Inspection Record 42
Table 2-4. Maximum Platform Capacities (Evenly Distributed) 42
Table 2-5. Maintenance and Inspection Schedule 43





MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >

2.2-10 Maintenance Support

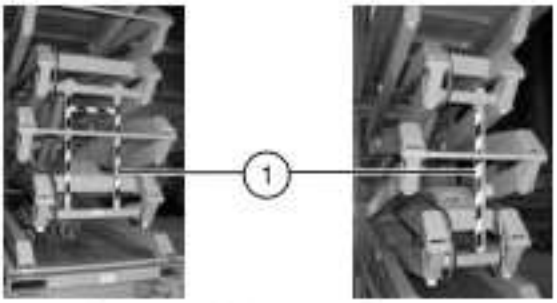


Figure 2-9. Maintenance Support

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

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

Proper Use of Maintenance Support

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

To Store the Maintenance Support

- 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 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.

MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >

2.5-11 To Extend/Retract the Powered Extension Deck (If Equipped)

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

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.

2.5-12 Electrical Inverter (If Equipped)

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

⚠ Caution

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

2.5-13 Shutdown Procedure

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

⚠ Warning

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

4. Dismount the platform using the ladder.
5. Turn emergency main power disconnect switch to "OFF" position.

MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >

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								

60141AA

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

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

MODEL	Manual Extension Platform				Powered Extension Platform			
	Total Capacity		Extension Capacity		Total Capacity		Extension Capacity	
3215	600 lb.	2 Person	250 lb.	1 Person	N/A			
3219	550 lb.	2 Person	250 lb.	1 Person	N/A			
3220	900 lb.	2 Person	300 lb.	1 Person	800 lb.	2 Person	300 lb.	1 Person
3226	500 lb.	2 Person	250 lb.	1 Person	N/A			
4620	1300 lb.	3 Person	300 lb.	1 Person	1300 lb.	3 Person	300 lb.	1 Person
4626	1000 lb.	3 Person	300 lb.	1 Person	1000 lb.	3 Person	300 lb.	1 Person
4632	700 lb.	2 Person	250 lb.	1 Person	N/A			
6826	1200 lb.	3 Person	300 lb.	1 Person	1000 lb.	3 Person	300 lb.	1 Person
6832	850 lb.	3 Person	300 lb.	1 Person	850 lb.	3 Person	300 lb.	1 Person

93315AE ANSI

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





MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >

1.11 Standard and Optional Features

SJII Series – Compacts & Conventionals – SPECIFICATIONS – ANSI/CSA & AS

	Compacts		Conventionals						
Models	3215	3219	3220	3226	4620	4626	4632	6826	6832
STANDARD EQUIPMENT									
Drivable at full height	•	•	•	•	•	•	•	•	•
Positive traction	•	•	•	•	•	•	•	•	•
Dual holding brakes	•	•	•	•	•	•	•	•	•
Battery charge indicator	•	•	•	•	•	•	•	•	•
Battery level indicator	•	•	•	•	•	•	•	•	•
Low voltage battery protection	•	•	•	•	•	•	•	•	•
Color coded and numbered wiring system	•	•	•	•	•	•	•	•	•
Swing out trays for easy access	•	•	•	•	•	•	•	•	•
Proportional control for drive/lift with joystick control	•	•	•	•	•	•	•	•	•
Tilt alarm with drive/lift cut out	•	•	•	•	•	•	•	•	•
GFCI AC outlet on platform	•	•	•	•	•	•	•	•	•
Lanyard attachment points	•	•	•	•	•	•	•	•	•
Forklift pockets/tie downs/lifting lugs	•	•	•	•	•	•	•	•	•
Hydraulic oil level and temperature indicators	•	•	•	•	•	•	•	•	•
All motion audible alarm	•	•	•	•	•	•	•	•	•
Operator horn	•	•	•	•	•	•	•	•	•
Midrail chain entrance	•	•	•	•	•	•	•	•	•
Top railing with a midrail & 6" (0.15m) toeboard	•	•	•	•	•	•	•	•	•
Hourmeter	•	•	•	•	•	•	•	•	•
Base controls	•	•	•	•	•	•	•	•	•
Hinged railing system				•		•	•	•	•
Variable front wheel hydraulic drive	•	•							
Variable rear wheel hydraulic drive			•	•	•	•	•	•	•
Freewheeling valve	•	•	•	•	•	•	•	•	•
Pothole protection	•	•	•	•	•	•	•		
3' (0.9m) Extension deck	•	•	•	•				•	•
4' (1.2m) Extension deck					•	•	•		
OPTIONAL EQUIPMENT									
Flashing Light	•	•	•	•	•	•	•	•	•
Shop airline to platform	•	•	•	•	•	•	•	•	•
Spring loaded half or full gate entry**	•	•	•	•	•	•	•	•	•
Hinged railing system	•	•	•		•				
5' (1.5m) Powered deck extension								•	•
6' (1.8m) Powered deck extension			•		•	•			
EE rating package	•	•	•	•	•	•	•	•	•
Inverter	•	•	•	•	•	•	•	•	•
Non-marking foam filled tires								•	•

60381AC-ANSI

** Full height gate not available with hinged railings on 32xx models

MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >

Warning

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

To fold the guardrail system down:

1. Remove the operator's control box and outrigger controls (if equipped) and lay it down on the platform.
2. Remove all locking pins.
3. Fold down the guardrails in the following order: right-hand side, left-hand side, entrance, and extension (refer to Figure 2-12a).
4. Lock in place on the mounting post using the locking pin (refer to Figure 2-12b). Ensure that the detent ball of the pin is all the way through.

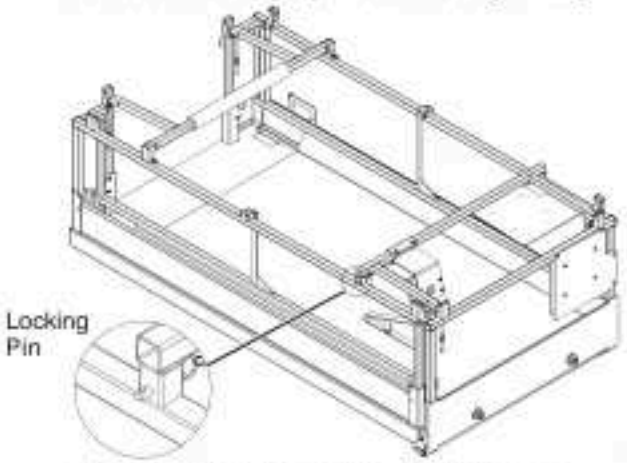


Figure 2-12b. All Guardrails Folded Down

To raise the guardrail system up:

1. Remove all locking pins.
2. Swing up the guardrails in the following order: extension, entrance, left-hand side and right-hand side.
3. Lock each guardrail in place with the locking pins ensuring that the detent ball of each pin is all the way through. See Figure 2-12b.
4. Mount the operator's control box and outrigger controls (if equipped) at the front right of the platform. Lock them 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.

2.2-14 Lanyard Attachment Ring

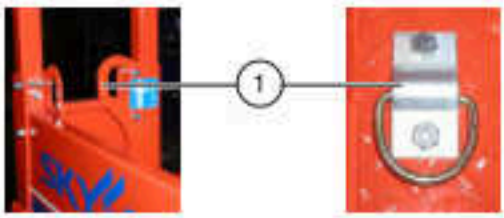


Figure 2-13. Lanyard Attachment Ring

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

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.

MidWestTech | Skyjack SJIII 3215, SJIII 3219, SJIII 3220, SJIII 3226, SJIII 4620, SJIII 4626... Order the manual at mid-west-tech.com >