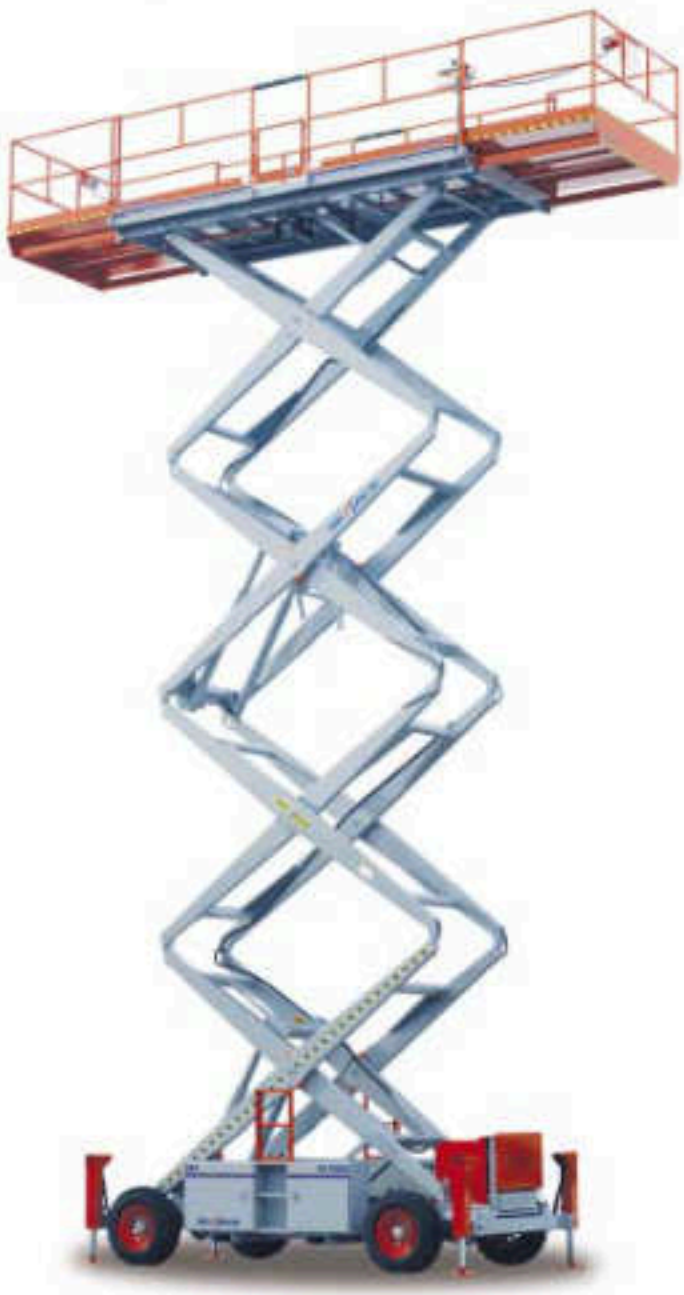
SKYJACK™

# OPERATING MANUAL
# ANSI & CSA

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



## Rough Terrain Series

Engine Powered

Models:
MID SIZE 7127, 7135, 8243 & 8850
FULL SIZE 8831, 8841 & 9250


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## 2.2-11 Maintenance Support

**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. To lower the maintenance support, push lock lever rearward and the maintenance support will drop.



*Figure 2-9. 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.

### Proper Use of Maintenance Support

- Remove all material from platform.
- Start engine.
- Raise platform until there is adequate clearance to swing down the maintenance support. Refer to Section 2.5-5 on how to raise the platform using the base controls.
- Push lock lever rearward.
- 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 2.5-6 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.
- Start engine.
- Raise platform until there is adequate clearance to swing up the maintenance support.
- Swing bar up into storage bracket.
- Lower platform.

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

## 2.2-12 Parking Brake System

### Models 71xx & 8xxx

The brake manifold is mounted in the electrical/ hydraulic cabinet located on the left side of the machine. The brake MUST be manually disengaged before pushing, towing or winching.

Refer to Section 2.8-1a for procedure on how to release the parking brake manually. It contains the following controls:




*Figure 2-10. Brake Manifold*

1. Brake Valve Plunger
2. Parking Brake Release Hand Pump



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

### 2.5-11 To Select High Torque or High Speed

1. **High Torque:** Select "LOW" position with the LOW/HIGH range select switch. Select "LOW" range when climbing grades, traveling in rough terrain and when loading or unloading the aerial platform. To climb a grade, select " " position using the torque toggle switch.

| Warning |
| --- |
| 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. |

2. **High Speed:** Select "HIGH" position with the LOW/HIGH range select switch. Select "HIGH" range when traveling on a hard level surface with the platform fully lowered.

### 2.5-12 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. Select "LIFT" position with OFF/LIFT/DRIVE select key switch.
3. On the powered extension deck control box, activate 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 OFF/LIFT/DRIVE select key switch.
5. On the powered extension deck control box, activate the enable switch, then push the EXTEND/RETRACT switch to the "⇩" (RETRACT) position until desired extension is reached. Release switch to stop.

| 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. |

### 2.5-13 To Extend/Retract the Manual Extension Deck

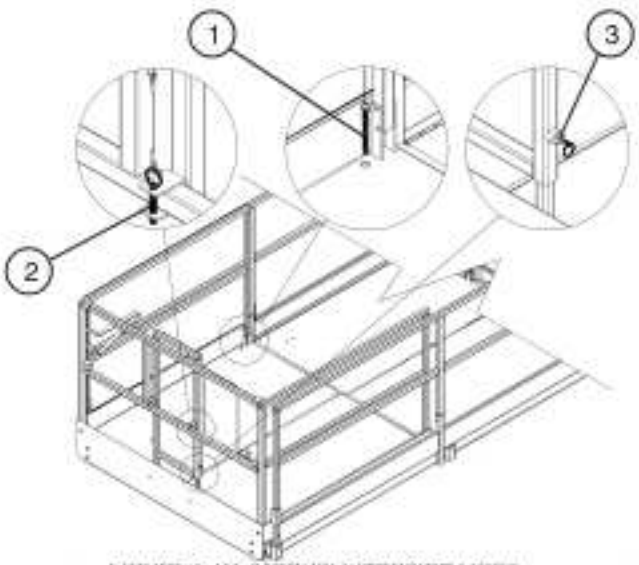



*Figure 2-19. Manual Extension Deck*

1. To extend/retract the manual extension deck, remove the locking pin (item 1) then remove the push bar locking pins (item 2) and rotate the push bar towards the main platform. Extend the push bar until it locks at full extension and push/pull the extension deck using the push bar.
2. Upon full extension or retraction, reinsert the locking pin on the platform (item 1) to prevent accidental movement of the manual extension deck during travel or transport.
3. When the push bar is not in use, pull the plungers (item 3) on the push bar and retract it, then rotate it back to its resting position and lock it into place with the locking pins (item 2).



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## Table 2-3. Maximum Platform Capacities (Evenly Distributed)

| MODEL | | Total | | First Extension | | Second Extension | |
|---|---|---|---|---|---|---|---|
| | | Capacity | Number of Occupants | Capacity | Number of Occupants | Capacity | Number of Occupants |
| 7127 | One Extension Platform | 1500 lb. | 5 | 500 lb. | 2 | Not Available | |
| 7135 | One Extension Platform | 1000 lb. | 4 | 350 lb. | 1 | Not Available | |
| 8243 | One Extension Platform | 1000 lb. | 3 | 350 lb. | 1 | Not Available | |
| 8850 | One Extension Platform | 800 lb. | 3 | 300 lb. | 1 | Not Available | |
| 8831 | No Extension Platform | 2500 lb. | 6 | Not Available | | | |
| | One Extension Platform | 2000 lb. | 6 | 500 lb. | 2 | Not Available | |
| | Two Extension Platforms | 1700 lb. | 6 | 500 lb. | 2 | 500 lb. | 2 |
| 8841 | No Extension Platform | 1700 lb. | 5 | Not Available | | | |
| | One Extension Platform | 1500 lb. | 5 | 500 lb. | 2 | Not Available | |
| | Two Extension Platforms | 1500 lb. | 5 | 500 lb. | 2 | 500 lb. | 2 |
| 9250 | No Extension Platform | 2000 lb. | 5 | Not Available | | | |
| | One Extension Platform | 1500 lb. | 5 | 500 lb. | 2 | Not Available | |
| | Two Extension Platforms | 1500 lb. | 5 | 500 lb. | 2 | 500 lb. | 2 |

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NOTE:

Occupants AND materials are not to exceed rated load.
Capacities listed are for standard machines equipped with #6 tires except for model 9250A which is equipped with foam filled tires.
Refer to capacity label at sides of platform for additional information and for models equipped with options.



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## 2.2-8 Folding Guardrail System

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

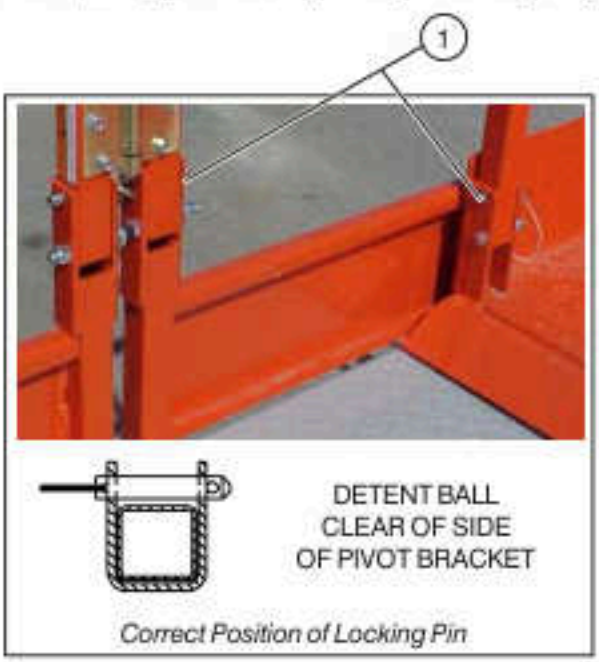



*Figure 2-6. Folding Guardrail System*

**Warning**

The scissor assembly 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 (Figure 2-6).

**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.

## 2.2-9 Lanyard Attachment Ring

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



*Figure 2-7. 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.

## 2.2-10 AC Outlet on Platform

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

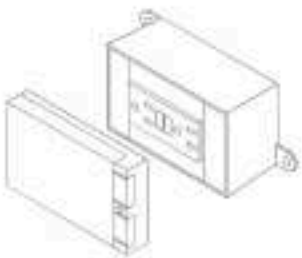


*Figure 2-8. AC Outlet on Platform*



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## 1.12 Standard and Optional Features

### Rough Terrain Series – Mid-Size & Full-Size – Specifications – ANSI/CSA

| | Mid-Size RT's | | | | Full-Size RT's | | |
|---|---|---|---|---|---|---|---|
| MODEL | 7127 | 7135 | 8243 | 8850 | 8831 | 8841 | 9250 |
| **STANDARD EQUIPMENT** | | | | | | | |
| Joystick control | • | • | • | • | • | • | • |
| Dual range (torque/speed) selector | • | • | • | • | • | • | • |
| Operator horn | • | • | • | • | • | • | • |
| Diamond pattern, all steel platform deck construction | • | • | • | • | • | • | • |
| Hinged guardrail system | • | • | • | • | • | • | • |
| Lanyard attachment rings | • | • | • | • | • | • | |
| Front mounted manual extension deck | • | • | • | • | | | |
| Front mounted powered extension deck | • | • | • | • | | | |
| Access ladders and gates at both sides of platform | | | | | • | • | • |
| AC outlet on platform | • | • | • | • | • | • | • |
| Self-centering scissors design | | | | | • | • | • |
| Flashing amber beacon | • | • | • | • | • | • | • |
| Motion alarm | • | • | • | • | • | • | • |
| Cabinets with lockable swing-out door | • | • | • | • | • | • | • |
| Hour meter | • | • | • | • | • | • | • |
| Tilt alarm with lift/drive cut out | • | • | • | • | • | • | • |
| Color-coded, numbered wiring system | • | • | • | • | • | • | • |
| Engine-mounted on roll-out tray | • | • | • | • | • | • | • |
| 52 hp Nissan dual fuel - gasoline/propane engine | • | • | • | • | • | • | • |
| Tie down points | • | • | • | • | • | • | • |
| Grip lug air-filled tires | • | • | • | | • | • | • |
| Grip lug foam-filled tires | | | | • | | | |
| 4-wheel drive | • | • | • | • | • | • | • |
| Independently operated hydraulic outriggers | | | • | • | | | • |
| Spring-applied hydraulically-released disc brake system | • | • | • | • | • | • | |
| Dual spring-applied hydraulically-released parking brakes | | | | | | | • |
| **OPTIONAL EQUIPMENT** | | | | | | | |
| Front mounted manual extension deck | | | | | • | • | |
| Rear mounted manual extension deck | | | | | • | • | |
| Front mounted powered extension deck | | | | | • | • | • |
| Rear mounted powered extension deck | | | | | • | • | • |
| 25 hp Kubota diesel water-cooled engine | • | • | • | • | • | • | • |
| Grip lug foam-filled tires | • | • | • | | • | • | • |
| 2-wheel drive | • | • | • | | • | • | • |
| Independently operated hydraulic outriggers | • | • | | | • | • | |
| 1500 watt AC Inverter | • | • | • | • | • | • | • |
| 3500 watt hydraulic AC generator | • | • | • | • | • | • | • |

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