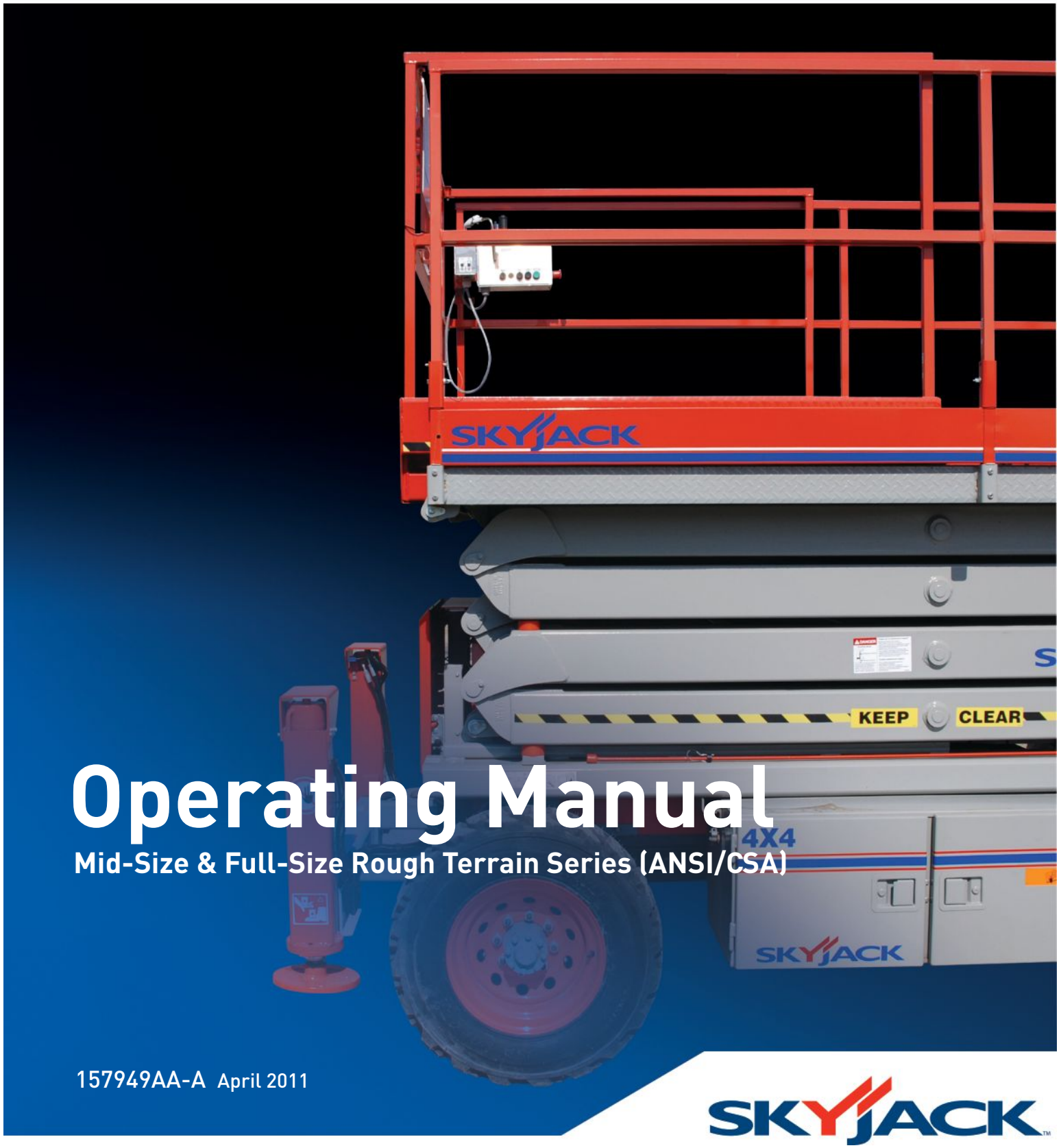
MODELS | SJ 7127 SJ 7135 SJ 8831 SJ 8841 SJ 9250



Operating Manual

Mid-Size & Full-Size Rough Terrain Series (ANSI/CSA)

157949AA-A April 2011

SKYJACK

2.2 Component Identification

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

2.2-1 Main Power Disconnect Switch

This switch is located at the side of the hydraulic/electrical compartment.

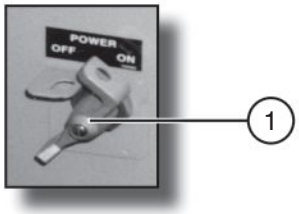


Figure 2-1. Main Power Disconnect Switch

1. **Main Power Disconnect Switch** - This switch, when in "○" off position, disconnects power to all circuits. Switch must be in "|" on position to operate any circuit. Turn switch off when transporting aerial platform.

2.2-2 Motion Alarm

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.

2.2-3 Tilt Alarm

The aerial platform is equipped with a device which senses when the aerial platform is out of level in any direction. When activated, it disables drive and lift functions of the aerial platform and an alarm produces an audible sound accompanied by the amber light. If the alarm sounds, lower the platform completely, then reposition aerial platform so that it is level before raising the platform.

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.

2.2-4 Base Control Console

This control console is located at the rear of the hydraulic/electrical compartment. It contains the following controls:

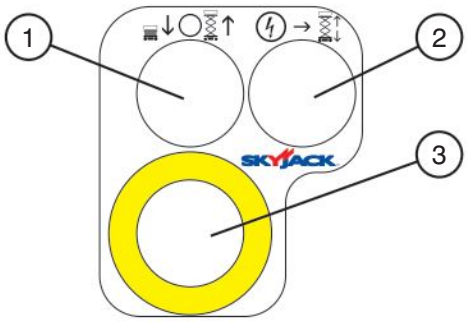


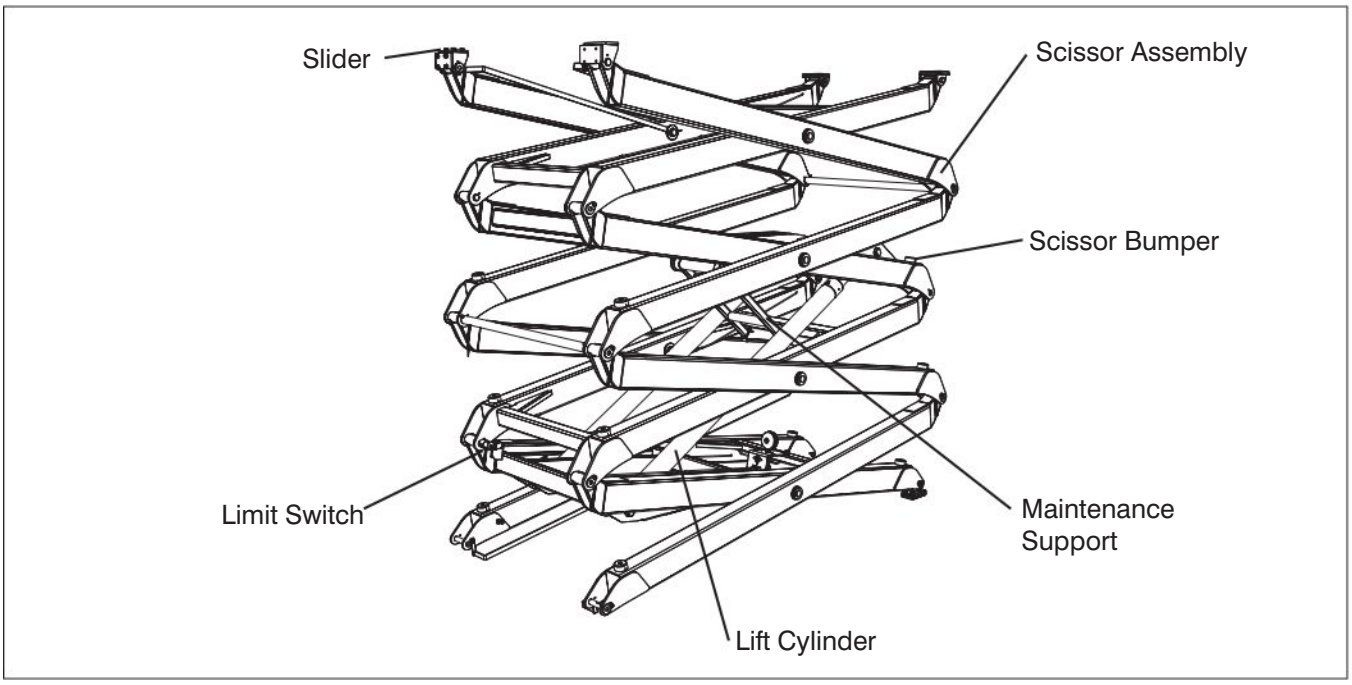
Figure 2-2. Base Control Console

1. **Lower/Neutral/Raise Switch** - This switch controls "↑" raising or "↓" lowering of platform.

2. **Enable Switch** - When selected and held, this " → " switch allows the lift functions to operate.

3. **Emergency Stop Button** - This button "●", when depressed, disconnects power to the control circuit.

FAMILIARIZATION



2.3-10 Lifting Mechanism

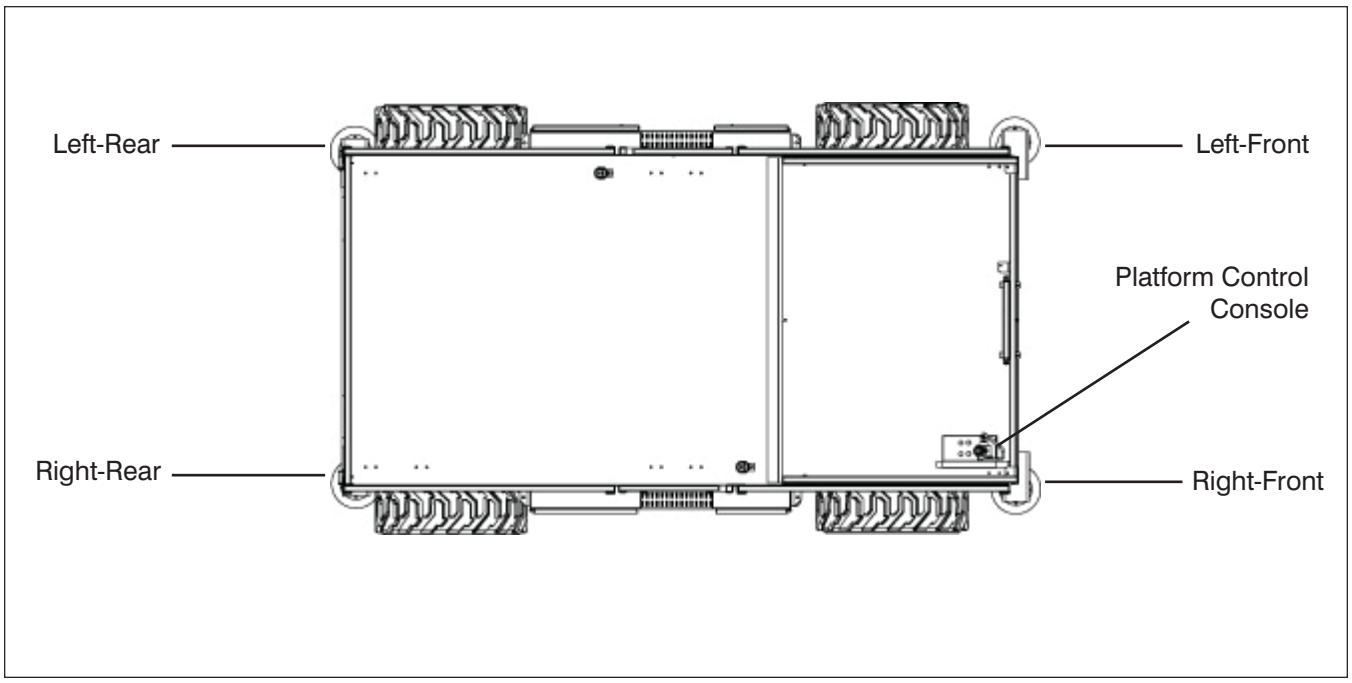
- **Sliders**
  - Ensure sliders are secure and there is no visible damage.
  - Ensure sliders' path of travel are free from dirt and obstructions.

1. Raise the platform (refer to Section 3.8-2) until there is adequate clearance to swing down the maintenance support (refer to Section 3.12).

- **Maintenance Support**
  - Ensure maintenance support is properly secured and shows no visible damage.
- **Scissor Assembly**
  - Ensure scissor assembly shows no visible damage and no signs of deformation in weldments.
  - Ensure all pins are properly secured.
  - Ensure cables and wires are properly routed and shows no signs of wear and/or physical damage.
- **Scissor Bumpers**
  - Ensure bumpers are secure and shows no sign of visible damage.
- **Lift Cylinder(s)**
  - Ensure each lift cylinder is properly secured, there are no loose or missing parts and there is no evidence of damage.
  - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

2. Raise the platform until there is adequate clearance to swing up the maintenance support into storage bracket. Refer to Section 3.12.

3. Fully lower the platform.



- Attempt to partially extend Right-Rear Outrigger (approximately 4”).
  Result: Outrigger will not extend.

- Attempt to partially extend Left-Rear Outrigger (approximately 4”).
  Result: Outrigger will not extend.

11. Lower the platform to stowed position.
    Result: Lower function will operate.

12. Raise the platform 1 foot from stowed position and partially extend Left-Front Outrigger (approximately 4”).
    - Attempt to lift the platform.
      Result: Lift function will not operate.

    - Attempt to drive the aerial platform.
      Result: Drive function will not operate.

    - Attempt to lower the platform.
      Result: Lower function will operate.

13. Platform at stowed position.
    - With Left-Front Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

    - With Right-Front Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

    - With Right-Rear Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

    - With Left-Rear Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

14. Platform at stowed position.
    - Extend each outrigger until it raises the tires up approximately 2”.

    - Retract the Left-Front Outrigger until the weight is resting on the corresponding tire.

    - Extend the Right-Rear Outrigger until it makes contact with ground.

    - Attempt to lift the platform 1 foot.
      Result: Lift function will not operate.

15. Platform at stowed position.
    - Extend each outrigger until it raises the tires up approximately 2”.

    - Retract the Right-Front Outrigger until the weight is resting on the corresponding tire.

    - Extend the Left-Rear Outrigger until it makes contact with ground.

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 4.9) 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 damaged or any unauthorized variation from factory-delivered condition is discovered, the 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 4.8).

NOTE

The mass of the aerial platform is as per Table 4.3. 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 3-11. Vertically, the center of gravity is approximately just above the base chassis.

NOTE

Except for Model 9250, 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 3-12.

3.10-2 Driving

Before driving the aerial platform:

- Ramp or dock capacity must be sufficient to withstand maximum aerial platform weight.
- Ramp should be equipped with side guards to prevent inadvertent fall from the ramp.
- Incline must not exceed aerial platform gradeability (refer to Table 4.3).
- Aerial platform brake must be checked for proper operation.
- Aerial platform speed must be on high torque setting.

WARNING

When transporting, the aerial platform must be secured to the truck or trailer deck. Tie downs are available as illustrated in Figure 3-10.

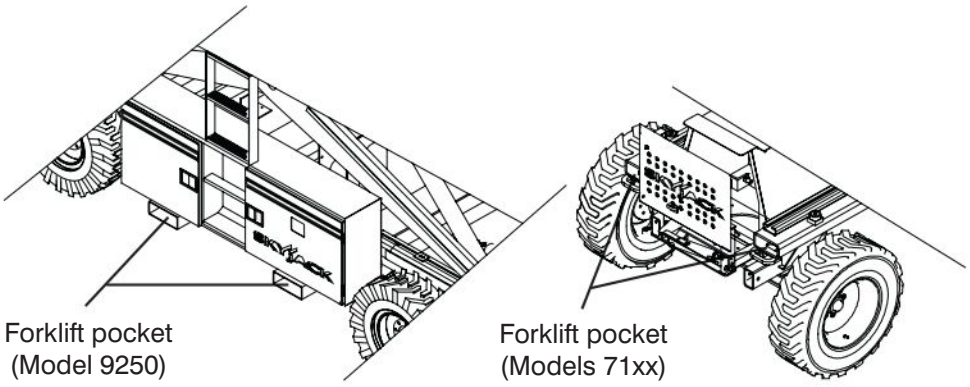


Figure 3-12. Forklift Pockets

Table 4.7 Tire Specifications

WARNING

Air pressure can affect stability. Temperature changes can affect air pressure. It is important to inspect all tires for proper tire inflation prior to use. Tires must be checked by end user on a daily basis. Tire inflation pressures must be checked weekly with a calibrated gauge. If the measured pressure is less than the specification, reinflate to the pressure specified below. Tires must not be inflated above the recommended specification. Do not intermix tires of different types on one aerial platform. Use only tires of type originally supplied.

Tire Size		Fill Specification			Usage†				
					MID SIZE		FULL SIZE		
		Fill Type	Ply Rating	Pressure (Factory) (kPa)	7127	7135	8831	8841	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	75* (517.1)*	S	S	S	S	S
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	75* (517.1)*	O	O	O	O	O
#7A	31-15.5-15 GOODYEAR TERRA XTRAC		8	45* (310.3)*	O	O	O	O	O
#6F	10-16.5 CARLISLE US LOADER	Foam	10	N/A	O	O	O	O	O
#6F	10-16.5 OTR OUTRIGGER (Non-Marking)		10	N/A	O	O	O	O	O
#7F	31-15.5-15 GOODYEAR TERRA XTRAC		8	N/A	O	O	O	O	O

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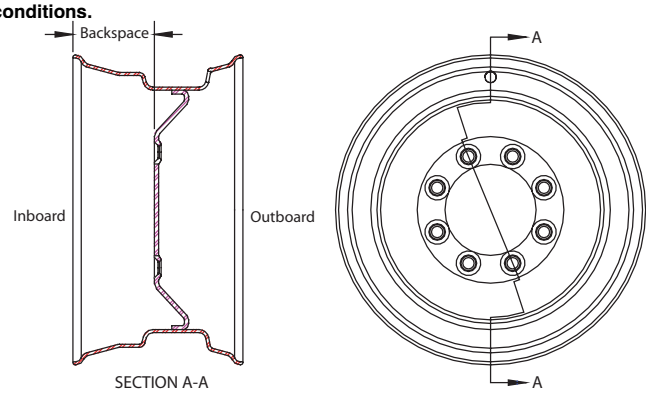
* Factory preset @ 20°C, **Check pressures regularly as tires can lose pressure over time and over different ambient temperatures even under normal conditions.**

Rim Backspace Diagram



Rim Size	Backspace				
	7127	7135	8831	8841	9250
Serial Number	Contact Skyjack Service Department				
#6 & #6F	3-3/4"	3-3/4"	4-3/4"	4-3/4"	3-3/4"
	95 mm	95 mm	121mm	121mm	95 mm
#7 & #7F	All models are 4-3/8"				

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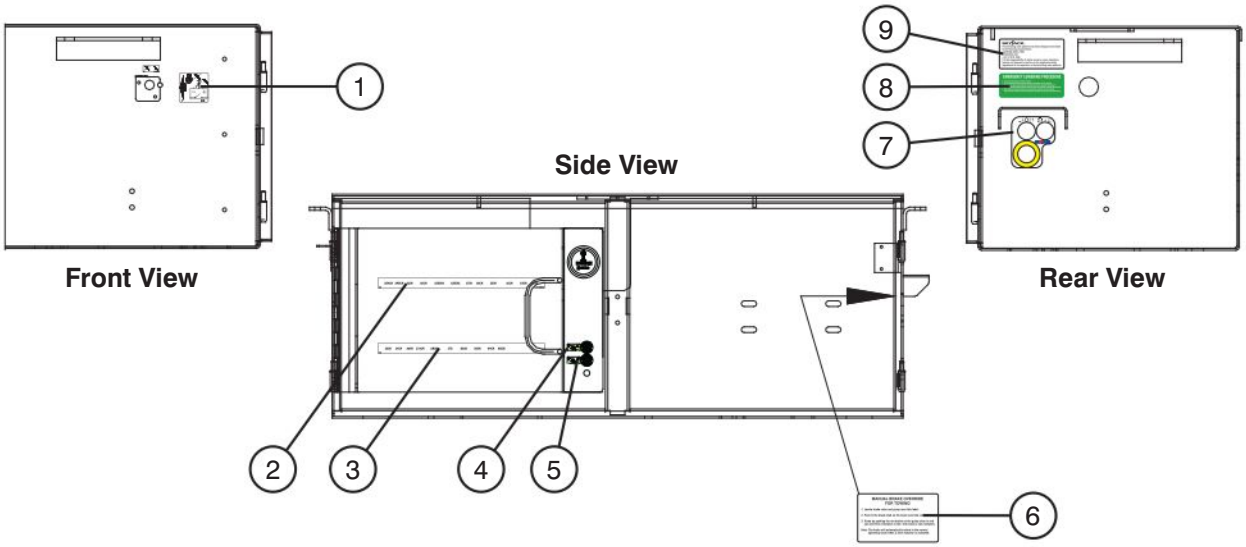
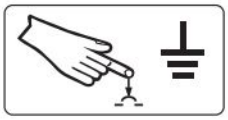
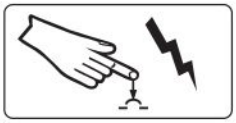
WARNING

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.

Electrical Panel and Hydraulic/Fuel Compartment



No.	Label Pictorial	Description
1		**Emergency Main Power Disconnect** Main power disconnect lever
2		**Relay Names - Upper (Model 71xx)*** Relay names for Model 71xx electrical panel (upper bank) *Note: Relay names will vary with differing units
3		**Relay Names - Lower (Model 71xx)*** Relay names for Model 71xx electrical panel (lower bank) *Note: Relay names will vary with differing units
4		**Ground Circuit Breaker** Push to reset ground circuit breaker.
5		**Power Circuit Breaker** Push to reset power circuit breaker.