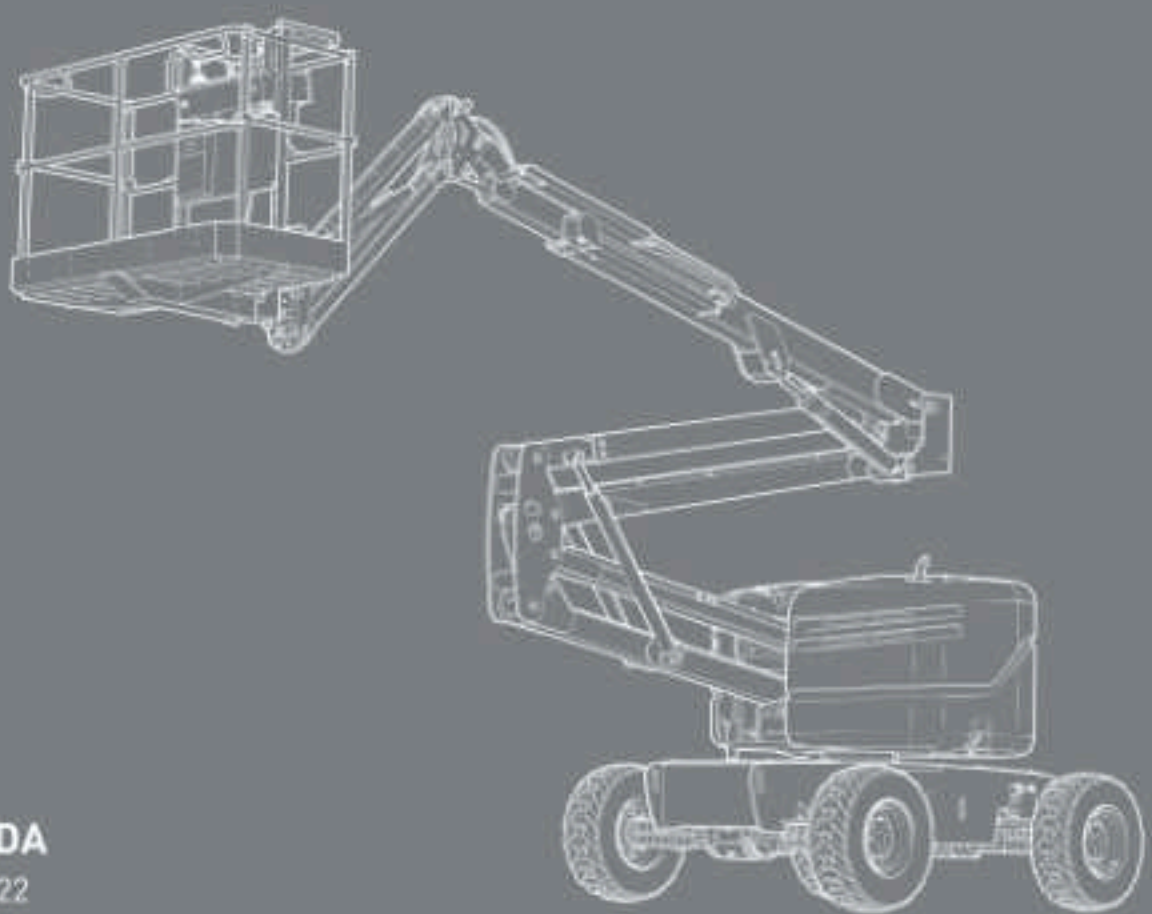
SKYJACK

OPERATION MANUAL

SJ46 AJ+

ARTICULATING BOOMS



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ANSI/CSA

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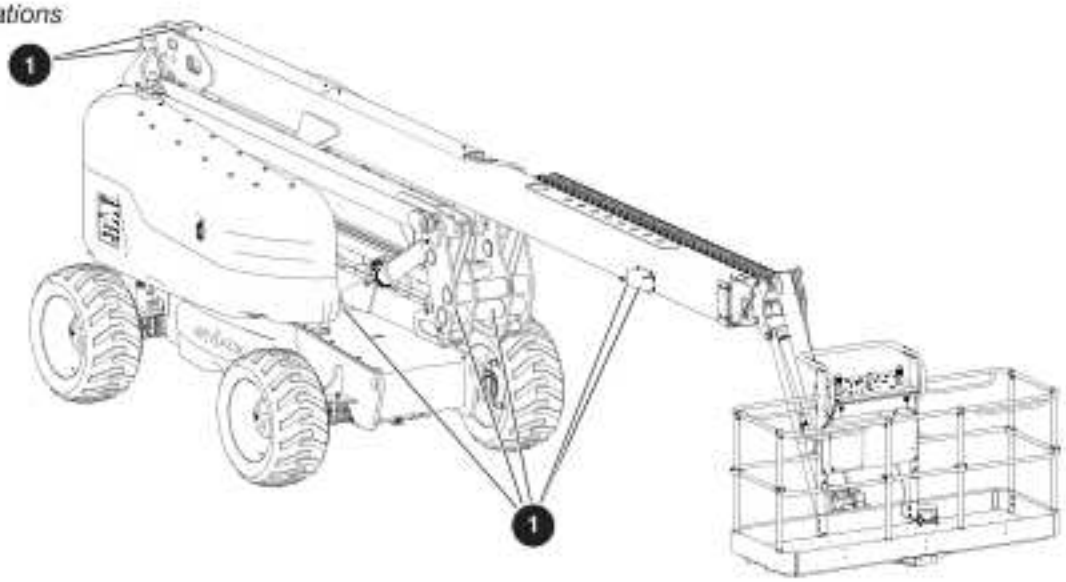
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Limit switch locations



4.2 Visual and daily maintenance inspections

Do an inspection of the MEWP in this sequence.

⚠ WARNING

Do not operate a MEWP that does not function correctly. Lock and tag the MEWP, and remove it for servicing. Only a qualified service technician must repair the MEWP. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Turn the main power disconnect switch to the off position before you do the visual and daily maintenance inspections. If you do not obey, there is a risk of death or serious injury.

⚠ CAUTION

Make sure that the MEWP is on a firm, level surface before you do the visual and daily maintenance inspections. If you do not obey, there is a risk of machine damage.

NOTE

When you do the visual and daily maintenance inspections, make sure you do an inspection of the limit switches, electrical components, and hydraulic components.

4.2-1 Labels

Refer to *Section 8* in this manual for the labels. Make sure all the labels are in the correct location, are in good condition, and you can read them.

4.2-2 Electrical

Do a check on these areas for chafed, corroded, and loose wires:

- Boom to platform cable harness
- Engine compartment electrical panel
- Engine wiring harness
- Rotary manifold wiring.

4.2-3 Limit switches

Make sure the limit switches ❶ are correctly attached with no visible damage, and the movement is not blocked.

4.2-4 Hydraulic

Do a check on these areas and make sure there are no signs of leakage:

- Hydraulic tank filter, fittings, hoses, emergency-power unit, turret and base surfaces
- Engine compartment fittings, hoses, primary pump, filter, turret and base surfaces
- All hydraulic cylinders
- All hydraulic manifolds
- The ground area below the MEWP.

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5.21 Operate with the emergency power switch at the platform control console

This switch enables all of the functions, with the exception of drive, if there is an engine malfunction. Refer to *Section 6.1* for the emergency-lowering procedure.

5.22 Engage or disengage the differential lock switch

1. Move the **differential lock** switch forward and release it to lock or unlock the differential.

5.23 MEWP shutdown

1. Select a reasonably well-protected location to park the MEWP. This location must have a firm, level surface, clear of obstructions, and traffic.
2. Fully retract the boom and lower the platform.
3. Push the **emergency-stop** button on the platform control console.
4. Exit the platform.
5. Turn the **off/base/platform key** switch to the off position and remove the key.
6. Push the **emergency-stop** button on the base control console.
7. Turn the **main power disconnect** switch to the off position.
8. If it is necessary, put a cover on the platform control console to prevent damage to the warning labels and controls in hostile environments.

5.24 Generator (optional equipment)

To start the generator:

1. Make sure the engine is on.
2. Turn the **generator on/off** switch to the on position.

To restore normal operation:

3. Turn the **generator on/off** switch to the off position.

5.25 Glazier tray (optional equipment)

The glazier tray attaches to the kickplate of the platform. Refer to the glazier operation manual for the correct operation and maintenance.

1. Select the derate mode on the capacity derate switch, and check that the capacity derate light turns on.

5.26 Pipe rack (optional equipment)

The pipe rack attaches to the upper rear railing of the platform. Refer to the pipe rack operation manual for the correct operation and maintenance.

1. Select the derate mode on the capacity derate switch, and check that the capacity derate light turns on.

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7.7 Maximum platform capacities (evenly distributed)

SJ46 AJ+	
Regular Platform Capacity	300 kg (660 lb)
	2 persons (maximum number of personnel)
	400 N (manual side force)
Derated Platform Capacity*	272 kg (600 lb)
	1 person (maximum number of personnel)
	200 N (manual side force)
Wind rating	12.5 m/s (28 mph)
Tilt cutout setting (side-to-side x front-to-back)	5 degrees x 5 degrees

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***NOTE:** Refer to *Section 3* for the capacity derate switch operation.

7.8 Floor loading pressure

Model		Weights				Pressures			
		MEWP Weight		Max Weight per Wheel**		LCP***		OFL***	
		kg	lb	kg	lb	kPa	psi	kPa	psf
SJ46 AJ+	Min*	6380	14060	2041	4500	884	128	9.6	200
	Max*	6680	14720	3000	6600	1090	158	10	209

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* **Min:** Minimum MEWP weight (Unloaded platform, no options/attachments)
Max: Maximum MEWP weight (Platform loaded to capacity with options/attachments)

** **Wheel Load** is the weight that can be experienced on one wheel.
***Note:** This is more than 25% of the machine weight due to possible weight distribution over the machine and platform.*

*** **LCP:** Local Concentrated Pressure is a measure of how hard the MEWP presses on the area in direct contact with the floor/tire.
OFL: Overall Floor Load (Pressure) is a measure of the average load the MEWP imparts on the whole surface directly underneath the chassis. This has been calculated by dividing the MEWP weight by the overall floor area occupied by the MEWP (on wheels).

***Note:** The floor covering (e.g., tile, carpet, etc.) or the structure (e.g., beams) of the operating surface must be able to withstand more than the values indicated above.*

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

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DO NOT drive elevated near depressions or holes of any type, loading docks, debris, drop-offs or surfaces that may affect the stability of the MEWP.

IF OPERATION IN AREAS WITH HOLES OR DROP-OFFS IS ABSOLUTELY NECESSARY, elevated driving shall not be allowed. Position the MEWP horizontally only with the platform fully-lowered. After ensuring that all 4 wheels have contact with a firm, level surface, the platform can be raised. After elevation, the drive function must not be activated.



DO NOT drive elevated on a soft or uneven surface.

DO NOT raise the platform if it is not on a firm, level surface.



DO NOT ascend or descend grades greater than the maximum inclines listed in *Section 7.4*. Ascending or descending slopes must only be done when fully lowered.



DO NOT operate a MEWP that has ladders, scaffolding, or other devices on it to increase the platform size or work height.



DO NOT exceed the maximum side force on the platform capacity label when elevated (refer to *Section 7.7*).



DO NOT use the MEWP as a crane.



DO NOT step on the boom arm assembly.



DO NOT sit, stand, or climb on the guardrails.









DO NOT collide or crush. Be aware of obstructions, personnel, or other possible hazards around the MEWP when elevating, lowering, or driving. Keep all body parts inside the platform when elevating or driving. Be aware of blind spots when operating the MEWP.

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