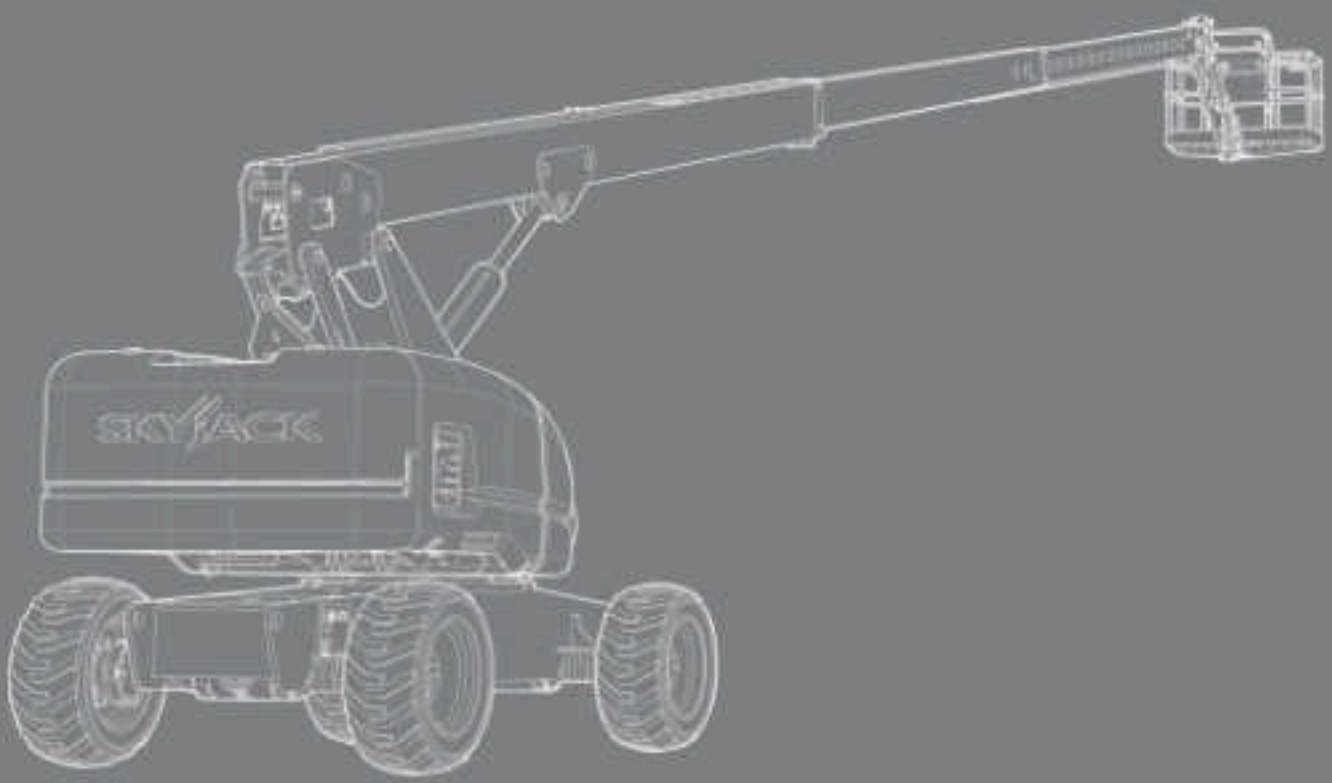
SKYJACK

OPERATION MANUAL

SJ82 T, SJ86 T

TELESCOPIC BOOMS



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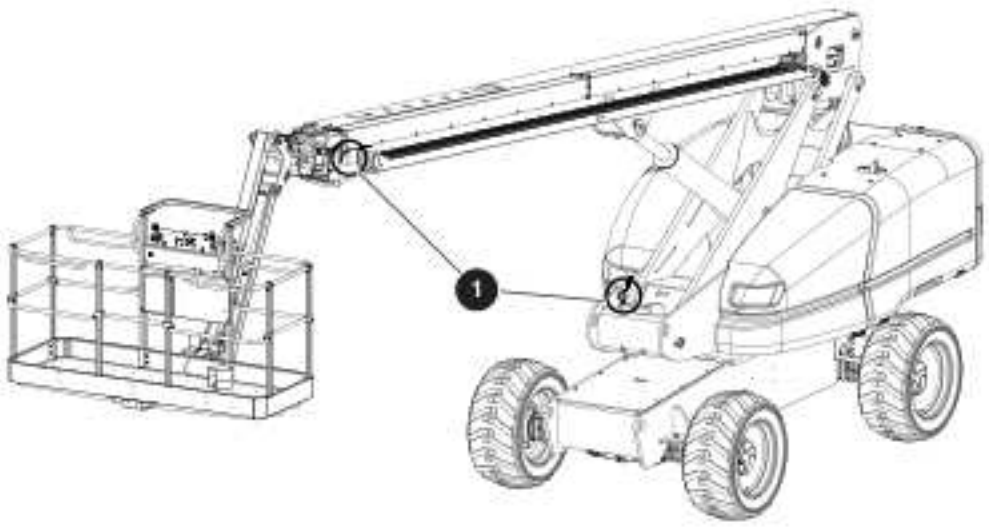
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4.2 Visual and daily maintenance inspections

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 and turret/base surface
- Engine compartment fittings, hoses, primary pump, filter and turret/base surface
- All hydraulic cylinders
- All hydraulic manifolds
- The ground area below the MEWP.

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5.7 Make the platform level with the base control console

1. Move and hold the **start/function enable/ emergency power** switch to the function enable position.
2. Move the **platform-leveling override** switch to the up or down position. Release the switch to stop.

5.8 Operate with the emergency power switch at the base 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.

5.9 Energize the platform control console

1. Turn the **main power disconnect** switch to the on position.
2. Turn the **off/base/platform key** switch to the platform position.
3. Pull the **emergency-stop** button on the base control console.

⚠ WARNING

Fall hazard. Use the three points of contact principle when you enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Fall hazard. Do not operate the controls on the platform control console without the correct fall-protection attached to the designated location in the platform. If you do not obey, there is a risk of death or serious injury.

4. Enter the platform and close the gate or drop bar.
5. Attach the body-harness lanyards of each occupant to the fall-protection anchorage points. The fall-protection anchorage points are rated for one person per anchorage.
6. Pull the **emergency-stop** button on the platform control console.
7. Select the start position from the **engine start/ on/off** switch until the engine starts.

IMPORTANT

The maximum platform capacity changes with the boom position. The indicator lights on the base and platform control consoles show if the platform is in the high or low capacity zone.

⚠ WARNING

Do not over crank the starter. If the engine does not start after you try to start it multiple times, lock and tag the MEWP. Remove the MEWP for servicing. If you do not obey, there is a risk of death or serious injury.

NOTE

The engine will not start if you press the footswitch.

8. Move the throttle switch to the low or high position.

⚠ WARNING

Do not drive or steer the MEWP when the platform position does not give you a clear view of the base. Cordon-off your area of operation from other personnel or equipment. If you do not obey, there is a risk of death or serious injury.

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7.7 Maximum platform capacities (evenly distributed)

	SJ82 T	SJ86 T
Total Platform Capacity (High)	340 kg (750 lb)	
	3 Persons	
Total Platform Capacity (Low)	227 kg (500 lb)	
	2 Persons	
Wind Rating	12.5 m/s (28 mph)	
Manual Side Force	400 N (90 lbf)	
Tilt Cutout Setting (side-to-side x front-to-back)	5 degrees x 5 degrees	

1945AA

7.8 Floor loading pressure

Model	Weights				Pressures			
	Gross MEWP Weight		Max Weight per Wheel*		LCP**		OFL**	
	kg	lb	kg	lb	kPa	psi	kPa	psf
SJ82 T	17395	38350	8100	17850	1207	175	15.6	325
SJ86 T	17577	38750	8100	17850	1207	175	15.8	330

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Gross MEWP weight: weight + platform capacity

* **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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Technical diagrams continued

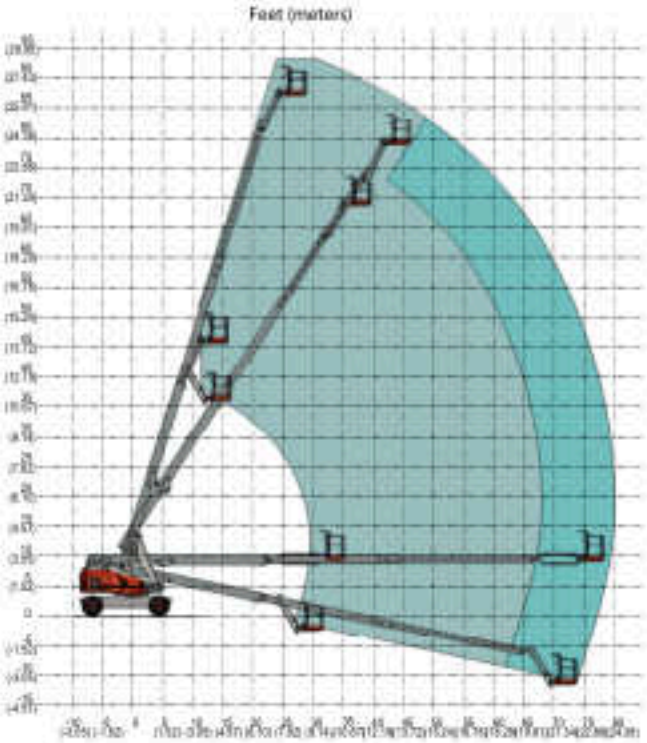


Figure 15 *Reach diagram - SJ86 T*

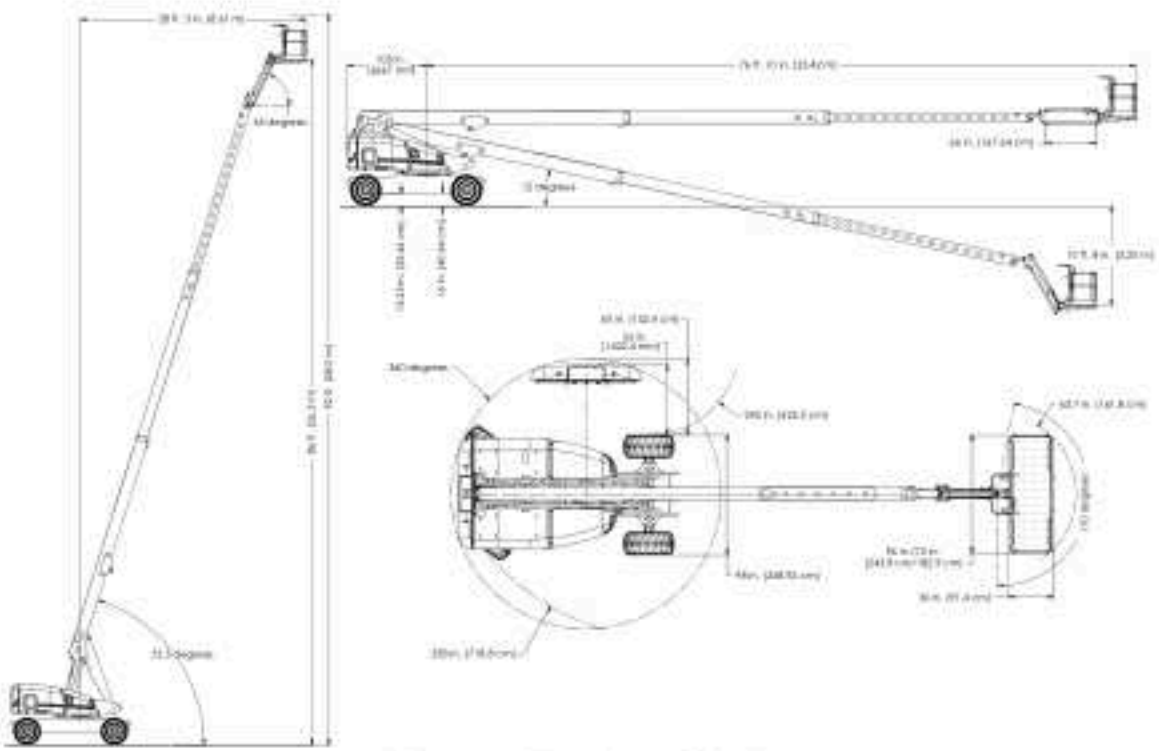


Figure 16 *Dimensions - SJ86 T*

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