

OPERATING MANUAL (ANSI/CSA)

TELESCOPIC BOOMS

MODELS SJ82T SJ86T

169368AKA January 2023

SKYJACK

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3.7-8 To Operate Using Emergency Power Switch at Base Control Console

This is a momentary-type switch. This switch allows all functions except the drive function to operate in the event of engine malfunction. Refer to Section 2.6 for the emergency lowering procedure.

3.7-9 To Activate Platform Control Console

1. In engine compartment, turn main power disconnect switch to "I" on position.
2. On base control console, turn off/base/platform key switch to "" platform position.
3. On base control console, pull out "" emergency stop button.

WARNING

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

WARNING

DO NOT operate any control on operator's control console without proper fall protection secured to the designated location in the platform. Failure to avoid this hazard could result in death or serious injury.

4. Enter platform and close gate/drop bar.
5. Attach body harness lanyards of each occupant to fall protection anchorage points. Rated for one (1) person per anchorage.
6. On platform control console, pull out "" emergency stop button.
7. Select "" start position from engine start/on/off switch until engine starts.

NOTE

Select desired platform capacity using platform capacity selector switch. High platform capacity is automatically selected.

WARNING

DO NOT over crank the starter. If engine fails to start after multiple attempts, contact qualified/competent repair personnel.

NOTE

Engine will not start if you are pressing down on the footswitch.

8. Select desired engine RPM using throttle switch: "" high or "" low.

WARNING

- DO NOT drive or steer the aerial platform when the platform position does not allow you a clear view of the base.
- Your area of operation should be cordoned from other personnel or equipment.

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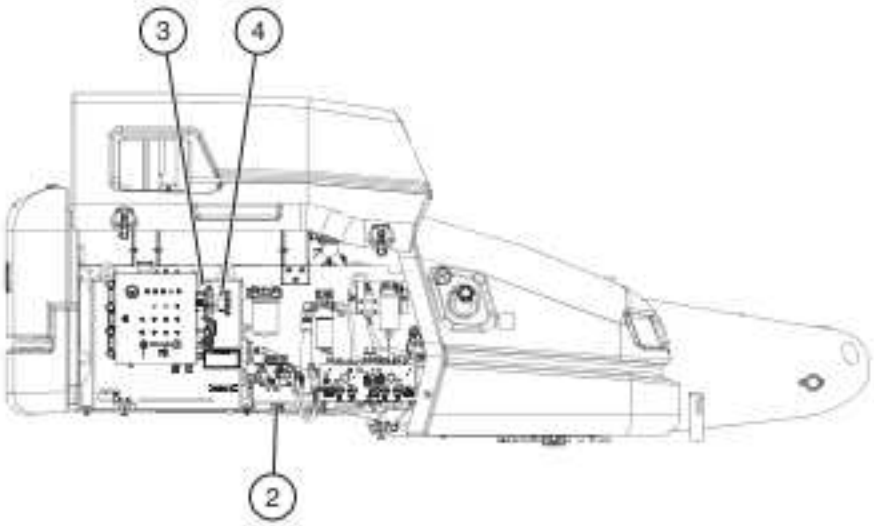
Table 4.2b Specifications and Features

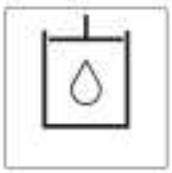
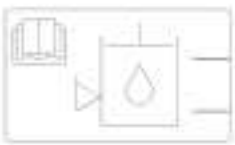
MODEL				SJ 82T	SJ 86T
Engine - Deutz TD2.9	Engine Type			Deutz TD2.9	
	Fuel Type			Diesel	
	Fuel Tank Capacity			45 gal (170.3 l)	
	Standard Oil Factory Fill	Ambient Temperature Limits	0°F to 115°F (-18°C to +45°C)	SAE 15W-40 API CF/CG/CH-6	
	Cold Lube Oil Option		-20°F to 90°F (-29°C to +32°C)	SAE 5W-30 API CF/CG/CH-6	
	Arctic Lube Oil Option		-40°F to 115°F (-40°C to +45°C)	SAE 0W-40 API CF/CG/CH-6	
	Approved Alternates		See Engine Manual		
	Lube Oil Sump Capacity			2.64 gal (10.0 l)	
Engine - Deutz D2011L04i	Engine Type			Deutz D2011L04i	
	Fuel Type			Diesel	
	Fuel Tank Capacity			45 gal (170.3 l)	
	Standard Oil Factory Fill	Ambient Temperature Limits	0°F to 115°F (-18°C to +45°C)	SAE 15W-40 API CF/CG/CH-6	
	Cold Lube Oil Option		-20°F to 90°F (-29°C to +32°C)	SAE 5W-30 API CF/CG/CH-6	
	Arctic Lube Oil Option		-40°F to 115°F (-40°C to +45°C)	SAE 0W-40 API CF/CG/CH-6	
	Approved Alternates		See Engine Manual		
	Lube Oil Sump Capacity			2.64 gal (10.0 l)	
Hydraulic Oil	Hyd Cooler Option	Ambient Temperature Limits	100°F to 115°F (+38°C to +45°C)	Oil cooler option recommended	
	Standard Factory Fill		-15°F to 100°F (-26°C to +38°C)	Shell Tellus T48	
	Arctic Oil Option		-40°F to 100°F (-40°C to +38°C)	Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME	
	Approved Alternates		-15°F to 100°F (-26°C to +38°C)	Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV	
			-40°F to 80°F (-40°C to +27°C)	Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 17	
	Hydraulic Tank Capacity			59 gal (223.3 l)	

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Control Compartment (Continued)



No.	Label Pictorial	Description
2		**Grease Points Maintenance** Refer to service and maintenance manual "" for lubricating aerial platform.
3		**Hydraulic Oil** Replace hydraulic fluid with Shell Tellus T48 or approved alternate (see Table 4.2b). (Note: Cold weather starting temperatures can be improved with Skyjack options. Please consult your nearest Skyjack service center.)
4		**Hydraulic Oil Level** Indicates minimum/maximum oil level.

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Safety Precautions

Know and understand the safety precautions before going on to next section.

WARNING

Failure to heed the following safety precautions could result in tip over, falling, crushing, or other hazards leading to death or serious injury.

- KNOW all national, state or territorial/provincial and local rules which apply to your aerial platform and jobsite.
- TURN main power disconnect switch "◯" off when leaving the aerial platform unattended. Remove the key to prevent unauthorized use of the aerial platform.
- WEAR all the protective clothing and personal safety devices issued to you or called for by job conditions.
- DO NOT wear loose clothing, dangling neckties, scarves, rings, wristwatches or other jewelry while operating this aerial platform .



- AVOID entanglement with ropes, cords or hoses.



- AVOID falling. Stay within the boundaries of the guardrails. Maintain firm footing on the platform floor at all times while working thereon.



- ENSURE all occupants wear personal fall protection equipment.
- DO NOT raise the aerial platform or operate elevated in windy or gusty conditions that exceed the limits specified in Section 4, Table 4.4.



- DO NOT increase the lateral surface area of the platform. Increasing the area exposed to the wind will decrease aerial platform stability. Avoid tenting.



- DO NOT elevate the aerial platform if it is not on a firm, level surface.
- DO NOT drive elevated near depressions or holes of any type, loading docks, debris, drop-offs and surfaces that may affect the stability of the aerial platform.



- DO NOT elevate or drive elevated on a slope. Elevated driving must be done on a firm, level surface.



- If operation in areas with holes or drop-offs is absolutely necessary, elevated driving shall not be allowed. Position the aerial platform horizontally only with the platform fully lowered. After ensuring that all 4 wheels or outriggers (if equipped) have contact with a firm, level surface, the aerial platform can be elevated. After elevation, the drive function must not be activated.



- DO NOT drive elevated on a soft or uneven surface.



- DO NOT ascend or descend a grade steeper than 45% (4WD). Boom elevated driving must only be done on firm, level surfaces.



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2.5 Winching and Towing Procedure

This section provides the operator with the winching and towing procedure, which includes instructions on how to manually release the brakes.

WARNING

Ensure boom is in stowed position before winching or towing. Sudden motion could cause aerial platform to become unstable. Death or serious injury could result.

WARNING

In emergency situations where aerial platform functions are not available and lowering is impeded by an obstacle, utmost care must be taken to move aerial platform far enough to clear obstacle. In such cases, operation must be extremely smooth with no sudden movements and must not exceed a speed of 2 in./sec (50 mm/sec).

WARNING

When pushing, winching or towing, do not exceed 2 mph (3.2 km/h).

WARNING

Do not winch or tow aerial platform on grade steeper than 50%.

WARNING

Do not winch or tow aerial platform onto a slope, or brake the towing vehicle rapidly. Do not pull aerial platform down an incline towards a winch.

1. Before winching or towing aerial platform, fully retract, lower and position boom over rear drive wheels in line with direction of travel.
2. Manually release brakes (refer to Section 2.5-1).
3. Remove wheel chocks or blocks, and then winch or tow aerial platform to desired location.
4. Position aerial platform on a firm and level surface.
5. Chock or block wheels to prevent aerial platform from rolling.
6. Locate the bypass valve on the inboard side of the drive pump. Re-engage the drive pump by loosening the valve stem (item 1 - marked with yellow paint) 90 degrees counterclockwise.

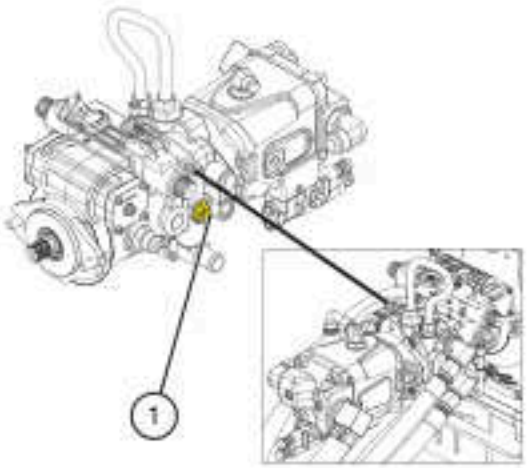


Figure 2-9. Drive Bypass Valve

7. Apply brakes by pulling out black brake auto reset valve.

NOTE

Brakes automatically apply when platform controls are engaged.

WARNING

Brakes must be applied immediately after reaching desired location.

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