

OPERATING MANUAL (ANSI/CSA)

TELESCOPIC BOOMS

MODELS SJ40T SJ45T SJ61T SJ66T

158017AF-A August 2014

SKYJACK

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3.8-8 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.

NOTE
The emergency power unit has two-minute duty cycle.

CAUTION

Do not use emergency power unit continuously for two minutes.

3.8-9 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.
5. Attach body harness lanyards of each occupant to platform lanyard rings.
6. On platform control console, pull out "●" emergency stop button.
7. Select "start position from start/emergency power switch until engine starts.

WARNING

DO NOT over crank the starter. If engine fails to start after multiple attempts, consult "Troubleshooting Information," in the Service and Maintenance Manual.

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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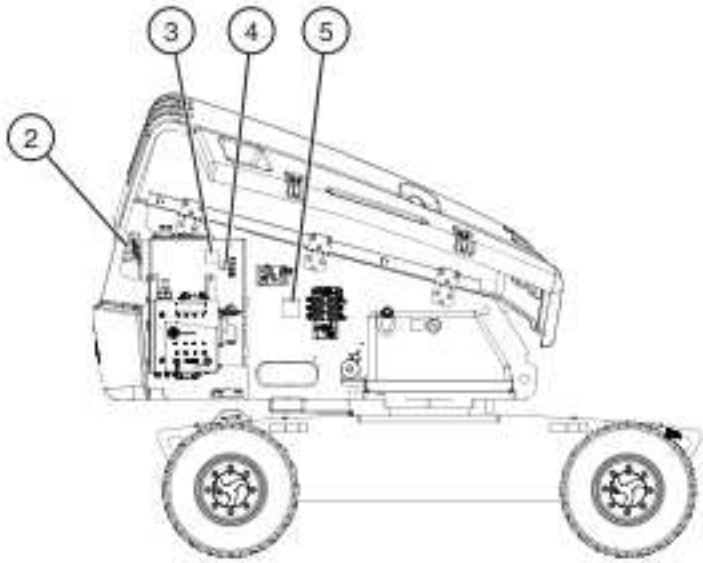
Table 4.2b Specifications and Features

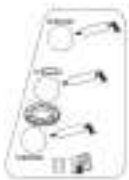
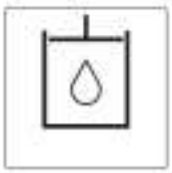
MODEL				SJ 40T	SJ 45T	SJ 61T	SJ 66T
Engine - Deutz	Engine Type			Deutz D2.9		Deutz TD2.9	
	RPM Settings			927 Low / 1700 / 2675 High		927 Low / 1700 / 2675 High	
	Gross Intermittent HP			36 kW / 48 Hp		48 kW / 65 Hp	
	Horsepower @ 2600 rpm (intermittent)			34 kW / 45 Hp		48 kW / 65 Hp	
	Fuel Type			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-4			
	Cold Lube Oil Option		- 20°F to 90°F (- 29°C to +32°C)	SAE 5W-30 API CF/CG/CH-4			
	Arctic Lube Oil Option		- 40°F to 115°F (- 40°C to +45°C)	SAE 0W-40 API CF/CG/CH-4			
	Apporved Alternates			See Engine Manual			
	Lube Oil Sump Capacity			2.11 gal (8 L)		2.38 gal (9 L)	
	Radiator Capacity			2.38 gal (9 L)		3.43 gal (13L)	
	Radiator Fluid Type			DELO ELC 50/50			
Engine - GM	Engine Type			3.0L GM Dual Fuel			
	RPM Settings			900 Low / 1620 / 2675 High			
	Gross Intermittent HP			46 kW / 62 Hp			
	Horsepower @ 2600 rpm (intermittent)			45 kW / 60 Hp			
	Fuel Type - Dual			Gasoline/Propane			
	Fuel Tank Capacity			45 gal (170.3 L)			
	Standard Oil Factory Fill	Ambient Temperature Limits	- 40°F to 115°F (- 40°C to +45°C)	SAE 5W-30 API SL			
	Apporved Alternates			See Engine Manual			
	Lube Oil Capacity			1.19 gal (4.5 L)			
	Standard Coolant	Ambient Temperature Limits	- 20°F to 115°F (- 29°C to +45°C)	GM 50/50 Extended Life Coolant			
	Arctic Coolant Option		- 40°F to 115°F (- 40°C to +45°C)	GM 60/40 Extended Life Coolant			
	Coolant Capacity			3.0 gal (11.4 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 T46			
	Arctic Oil Option		- 40°F to 100°F (- 40°C to +38°C)	Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME			
	Apporved 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 15			
	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 T46 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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Table 4.1 Standard and Optional Features

MODEL	SJ 40T	SJ 45T	SJ 61T	SJ 66T
STANDARD EQUIPMENT				
Platform controls	✓	✓	✓	✓
Base controls	✓	✓	✓	✓
Four-wheel drive	✓	✓	✓	✓
Oscillating axle (steer)	✓	✓	✓	✓
Side entry spring hinged gate	✓	✓	✓	✓
Variable speed drive and function controls	✓	✓	✓	✓
Continuous drive and steer directional sensing	✓	✓	✓	✓
12 Volt DC emergency power	✓	✓	✓	✓
Engine anti-restart protection	✓	✓	✓	✓
Glow plug heaters (diesel only)	✓	✓	✓	✓
Spring-applied hydraulically released parking brake	✓	✓	✓	✓
110V outlet on platform with GFI (ANSI/CSA)	✓	✓	✓	✓
Wiring for AC outlet (AS)	✓	✓	✓	✓
Diesel engine	✓	✓	✓	✓
Operator horn	✓	✓	✓	✓
All function motion alarm	✓	✓	✓	✓
Manual brake release	✓	✓	✓	✓
Air-filled tires	✓	✓	✓	✓
5-foot jib	Not Applicable	✓	Not Applicable	✓
OPTIONAL EQUIPMENT				
GM 3.0L dual fuel engine (gas/propane)	✓	✓	✓	✓
Two-wheel drive	✓	✓	✓	✓
Welder package with 12kW hydraulic generator	✓	✓	✓	✓
3500W hydraulic generator	✓	✓	✓	✓
Cold weather start kit (diesel or dual fuel)	✓	✓	✓	✓
Flashing amber light	✓	✓	✓	✓
Platform work light	✓	✓	✓	✓
Base driving light	✓	✓	Not Available	Not Available
Glazier package	✓	✓	✓	✓
Air line or hydraulic line to platform	✓	✓	✓	✓
72 x 36 inch platform	✓	✓	✓	✓
Extra propane tank	✓	✓	✓	✓
Tire sealant	✓	✓	✓	✓
Oil cooler (included with generators)	✓	✓	✓	✓
Foam filled tires	✓	✓	✓	✓
High flotation tires	✓	✓	✓	✓
Diesel scrubber (Level 1)	✓	✓	✓	✓
Diesel scrubber (Level 2)	Not Available	Not Available	✓	✓

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Safety Precautions (Continued)

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

- **DO NOT** operate an aerial platform that has ladders, scaffolding or other devices mounted on it to increase its size or work height. It is prohibited.



- **DO NOT** exert side forces on aerial platform while elevated.



- **DO NOT** use the aerial platform as a crane. It is prohibited.



- **DO NOT** climb on boom arm assembly. It is prohibited.



- **DO NOT** sit, stand or climb on the guardrails. It is prohibited.



- **AVOID** overhead obstructions. Be aware of overhead obstructions or other possible hazards around aerial platform when lifting or driving.



- **AVOID** crushing hazards. Be aware of crushing hazards when lifting or driving. Keep all body parts inside the aerial platform.



- **BE AWARE** of blind spots when operating the aerial platform.
- **ENSURE** that there are no personnel or obstructions in the path of travel, including blind spots.



- **DO NOT** lower the platform unless the area below is clear of personnel and obstructions.



- **DO NOT** use boom to push, pull other objects or to lift the chassis.



- **DO NOT** raise the aerial platform while it is on a truck, forklift or other device or vehicle.



- **STUNT** driving and horseplay are prohibited.
- **DO NOT** use with improperly inflated/damaged tires or wheels. Refer to Section 2: Wheel/Tire Assembly.



- **DO NOT** alter or disable limit switches or other safety devices.
- **DO NOT** use the aerial platform without guardrails, locking pins and the entry gate in place.

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