



OPERATING MANUAL (ANSI/CSA)

# TELESCOPIC BOOMS

MODELS **SJ40T** **SJ45T** **SJ61T** **SJ66T**

207518AEA November 2018

**SKYJACK**

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**Safety Precautions (Continued)**

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

**Fall Protection**

All occupants of this aerial platform must wear personal fall protection equipment.

**WARNING**

**Failure to wear personal fall protection equipment may result in death or serious injury.**

As per the ANSI A92.5-2006 standard, “Principal fall protection is provided by the guardrail system. The user shall direct and monitor the operator to ensure that all components of the guardrail system are in place. The user shall direct and monitor the occupants of the work platform to ensure that they wear a personal fall arrest system to protect against the potential effects of ejection or a fall restraint system to prevent a free fall.”

Fall restraint and fall arrest systems are defined within the ANSI A92.5 Manual of Responsibilities shipped with this aerial platform.

Skyjack recommends the use of a fall restraint system to keep an occupant within the confines of the platform, and thus not expose the occupant to any fall hazard requiring a fall arrest.

CSA B354.4-02 requires the use of a fall arrest system, therefore Canadian users must use personal fall arrest protection as opposed to fall restraint.

All personal fall protection equipment must comply with applicable governmental regulations and must be inspected and used in accordance with the manufacturer’s recommendations.

All personal fall protection equipment must be attached only to approved anchorage points within the platform of the aerial platform.

**WARNING**

**Entering and exiting the aerial platform should only be done using the three points of contact.**

- Use only equipped access openings.
- Enter and exit only when the aerial platform is in the fully retracted position.
- Do use three points of contact to enter and exit the platform. Enter and exit the platform from the ground only. Face the aerial platform when entering or exiting the platform.
- Three points of contact means that two hands and one foot or one hand and two feet are in contact with the aerial platform or the ground at all times during entering and exiting.

**WARNING**

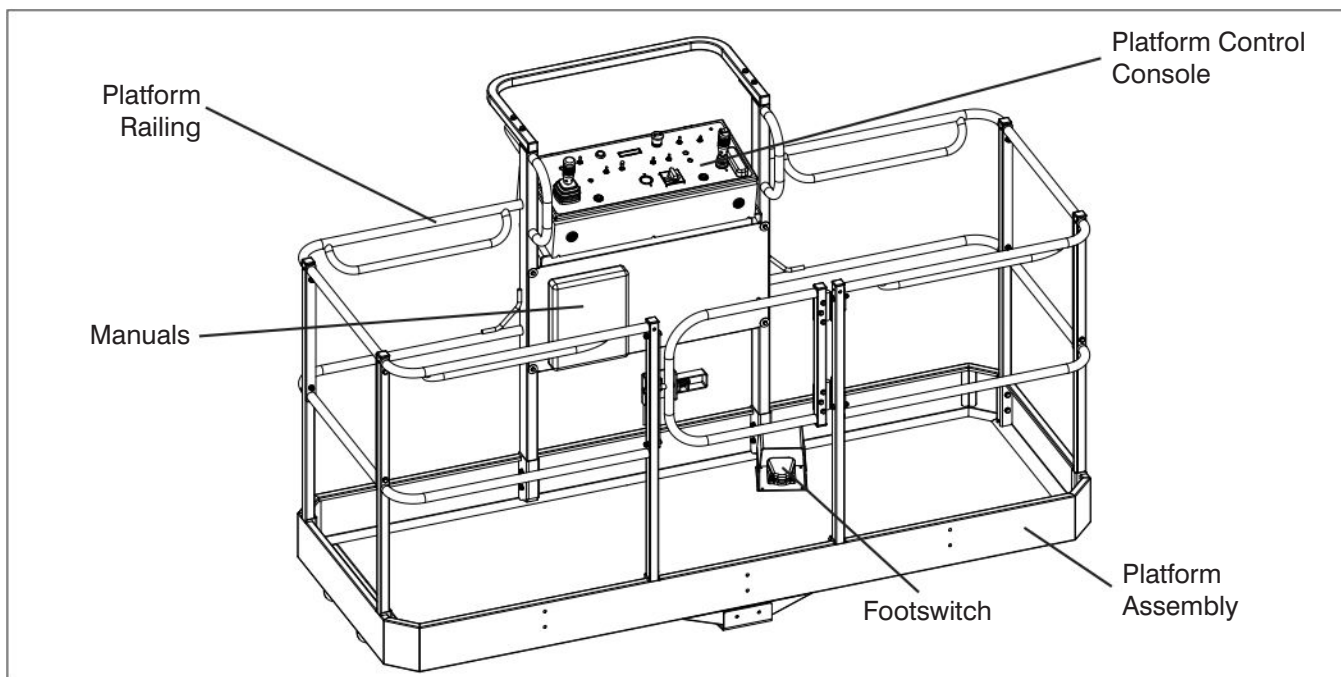
**An operator should not use any aerial platform that:**

- does not appear to be working properly.
- has been damaged or appears to have worn or missing parts.
- has alterations or modifications not approved by the manufacturer.
- has safety devices which have been altered or disabled.
- has been tagged or locked out for non-use or repair.

**Failure to avoid these hazards could result in death or serious injury.**

**Jobsite Inspection**

- Do not use in hazardous locations.
- Perform a thorough jobsite inspection prior to operating the aerial platform, to identify potential hazards in your work area.
- Be aware of moving equipment in the area. Take appropriate actions to avoid collision.



### 2.3 Visual & Daily Maintenance Inspections

Begin the visual and daily maintenance inspections by checking each item in sequence for the conditions listed in this section.



#### **WARNING**

**To avoid injury, do not operate an aerial platform until all malfunctions have been corrected.**



#### **WARNING**

**To avoid possible injury, ensure aerial platform power is off during your visual and daily maintenance inspections.**

#### **NOTE**

While doing visual and daily inspections in different areas, be aware to also inspect limit switches, electrical and hydraulic components.

#### 2.3-1 Labels

Refer to [Section 5 - Labels](#) in this manual and determine that all labels are in place and are legible.

#### 2.3-2 Electrical

Maintaining the electrical components is essential to good performance and service life of the aerial platform.

Inspect the following areas for chafed, corroded and loose wires:

- boom to platform cable harness
- engine compartment electrical panel
- engine wiring harness
- rotary manifold wiring

#### 2.3-3 Limit Switches

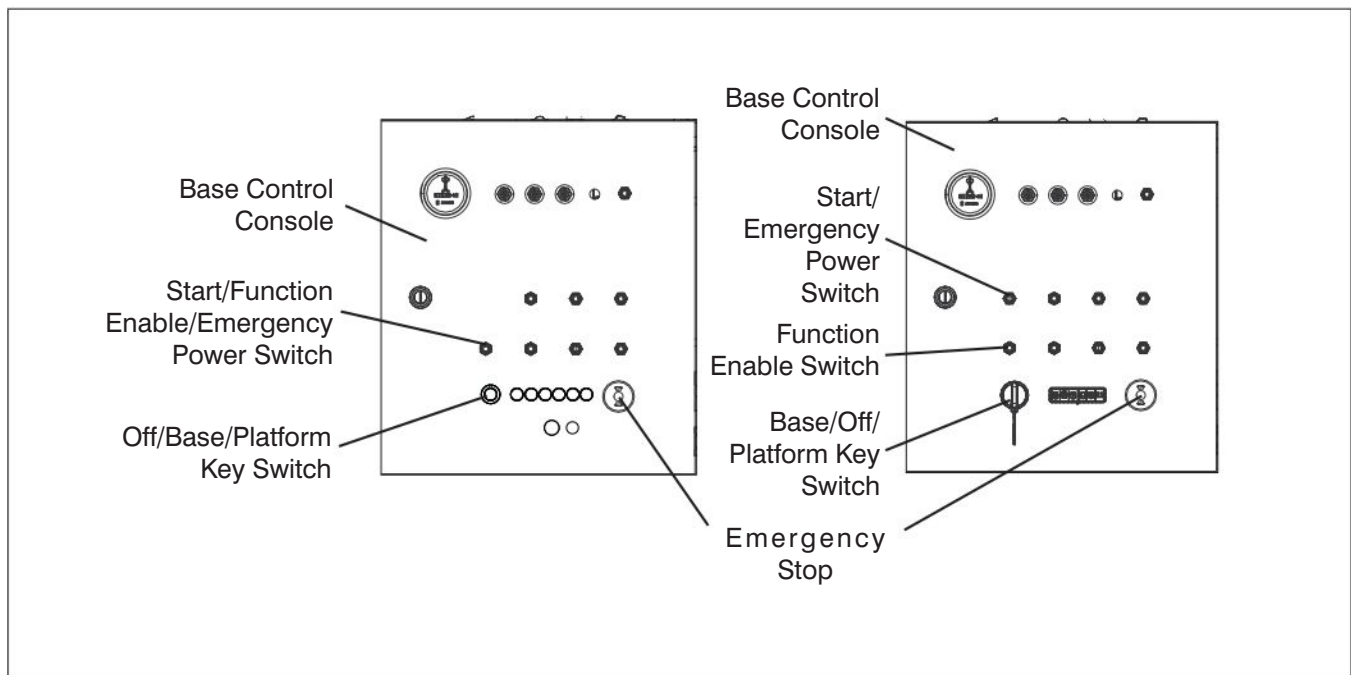
Ensure limit switches are properly secured with no signs of visible damage and movement is not obstructed.

#### 2.3-4 Hydraulic



Maintaining the hydraulic components is essential to good performance and service life of the aerial platform.

Perform a visual inspection around the following areas:

- hydraulic tank filter, fittings, hoses, emergency power unit and turret/base surface
- engine compartment fittings, hoses, main pump, filter and turret/base surface
- all hydraulic cylinders
- all hydraulic manifolds
- the underside of the turret
- the underside of the base
- ground area under the aerial platform



• **Test Emergency Power**

1. On base control console, push in “” emergency stop button to turn engine off.
2. On platform control console, push in “” emergency stop button.

 **CAUTION**


**When operating on auxiliary power, do not operate more than one function at a time to avoid overloading 12-Volt auxiliary pump motor. Do not use emergency power unit continuously for more than two minutes.**


**NOTE**

To conserve battery power, test each function through a partial cycle.

 **WARNING**

**Ensure that there are no personnel or obstructions in test area and there is sufficient room for boom to swing.**




3. On base control console, pull out “” emergency stop button.

4. Select “” emergency power position from start/function enable/emergency power (start/emergency power) switch and activate each boom function.  
**Result:** All selected functions should operate.

**NOTE**

The emergency power unit has two-minute duty cycle.

• **Test Off/Base/Platform (Base/Off/Platform) Switch**

1. Ensure “” emergency stop button is pulled out.
2. Start engine.
3. On base control console, turn off/base/platform (base/off/platform) key switch to “” off position.  
**Result:** Engine should shut down and aerial platform functions should not operate.
4. On base control console, turn off/base/platform (base/off/platform) key switch to “” platform position.

## 2.6 Emergency Lowering Procedures

This section guides the operator on how to use emergency lowering system. This system allows platform lowering in the event of an emergency or engine malfunction.

### NOTE




The emergency power unit has two-minute duty cycle.







### CAUTION

**Do not use emergency power unit continuously for more than two minutes.**

### 2.6-1 Base Control Console

1. Ensure engine is off.
2. Pull out “” emergency stop button.
3. Turn key switch to “” base position.
4. Select “” emergency power position from start/function enable/emergency power (start/emergency power) switch and activate desired boom function.

### 2.6-2 Platform Control Console

1. Ensure engine is off.
2. Pull out “” emergency stop button.
3. Select “” on position from engine start/on/off switch.
4. Depress and hold footswitch.
5. Turn “” emergency power switch to “” on position and activate desired boom function.

### 3.8 Start Operation

Carefully read and completely understand the Operating Manual and all warnings and instruction labels (refer to [Section 5 - Labels](#)) on the aerial platform.



#### **WARNING**

**DO NOT operate this aerial platform without proper authorization and training. Failure to avoid this hazard could result in death or serious injury.**

Before operating this aerial platform, perform the following steps:

1. Visual and daily maintenance inspections (see [Section 2.3](#))
2. Function tests (see [Section 2.4](#))
3. Jobsite inspection  
It is the responsibility of the operator to perform a jobsite inspection and avoid the following hazardous situations:
  - holes or drop-offs
  - ditches or soft fills
  - floor obstructions, bumps or debris
  - overhead obstructions
  - electrical cords, hoses and high voltage conductors
  - hazardous locations
  - inadequate surface support to withstand all load forces imposed by the aerial platform
  - wind and weather conditions
  - the presence of unauthorized personnel
  - other possible unsafe conditions



#### **WARNING**

**An operator should not use any aerial platform that:**

- does not appear to be working properly.
- has been damaged or appears to have worn or missing parts.
- has alterations or modifications not approved by the manufacturer.
- has safety devices which have been altered or disabled.
- has been tagged or locked out for non-use or repair.





**Failure to avoid these hazards could result in death or serious injury.**

#### 3.8-1 To Activate Base Control Console



#### **WARNING**

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

1. Enter platform and close gate.
2. On platform control console, pull out “” emergency stop button.
3. In engine compartment, turn main power disconnect switch to “I” on position.
4. On base control console, turn off/base/platform (base/off/platform) key switch to “” base position.
5. Pull out “” emergency stop button.
6. Select “” start position from start/function enable/emergency power (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.**

For aerial platform with cold weather start option:

7. Disconnect battery warmer/hydraulic oil heater from AC outlet after engine starts.
8. Allow engine to run, for approximately 10 minutes, to reach operating temperature before driving.

3.10-3b Lifting (61T/66T)

1. Rotate the boom and position the aerial platform as shown in Figure 3-15 and Figure 3-16..
2. Turn main power disconnect switch to “○” off position.
3. Clear platform of all personnel, tools and materials.



**WARNING**

**When lifting the aerial platform, lifting devices must be attached to designated lift points only (refer to Figure 3-16 and Figure 3-17).**



**WARNING**

**Use chains with load capacity sufficient to withstand aerial platform weight. Refer to the serial plate of the aerial platform for specific weight.**

4. Properly adjust rigging to ensure aerial platform remains level during lifting. See Center of gravity location (Figure 3-15).

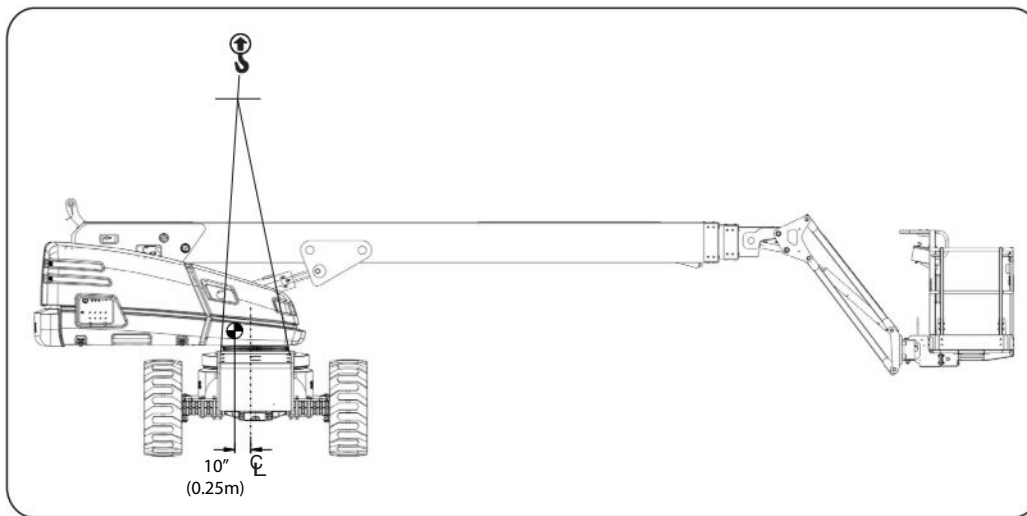


Figure 3-15. 61/66T Center of Gravity

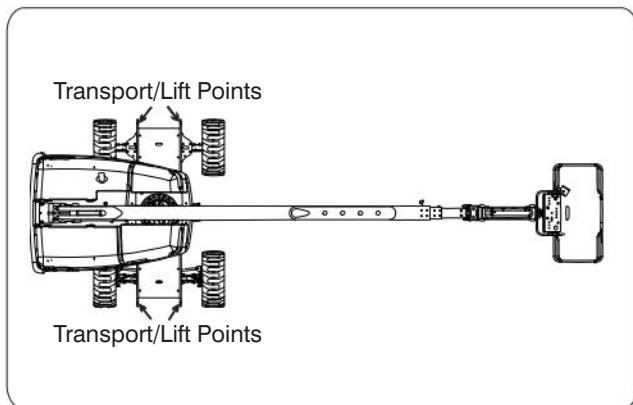


Figure 3-16. 61/66T Overhead View Lifting Points

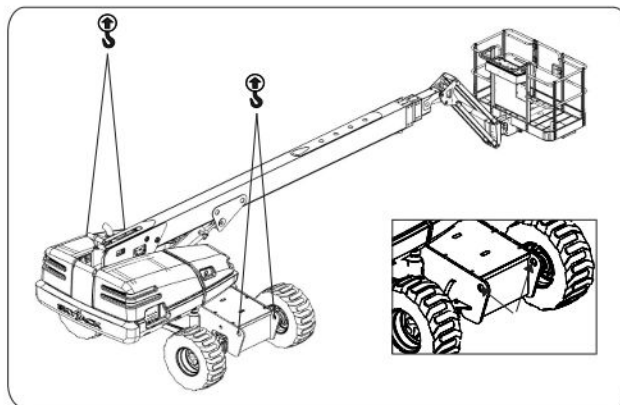
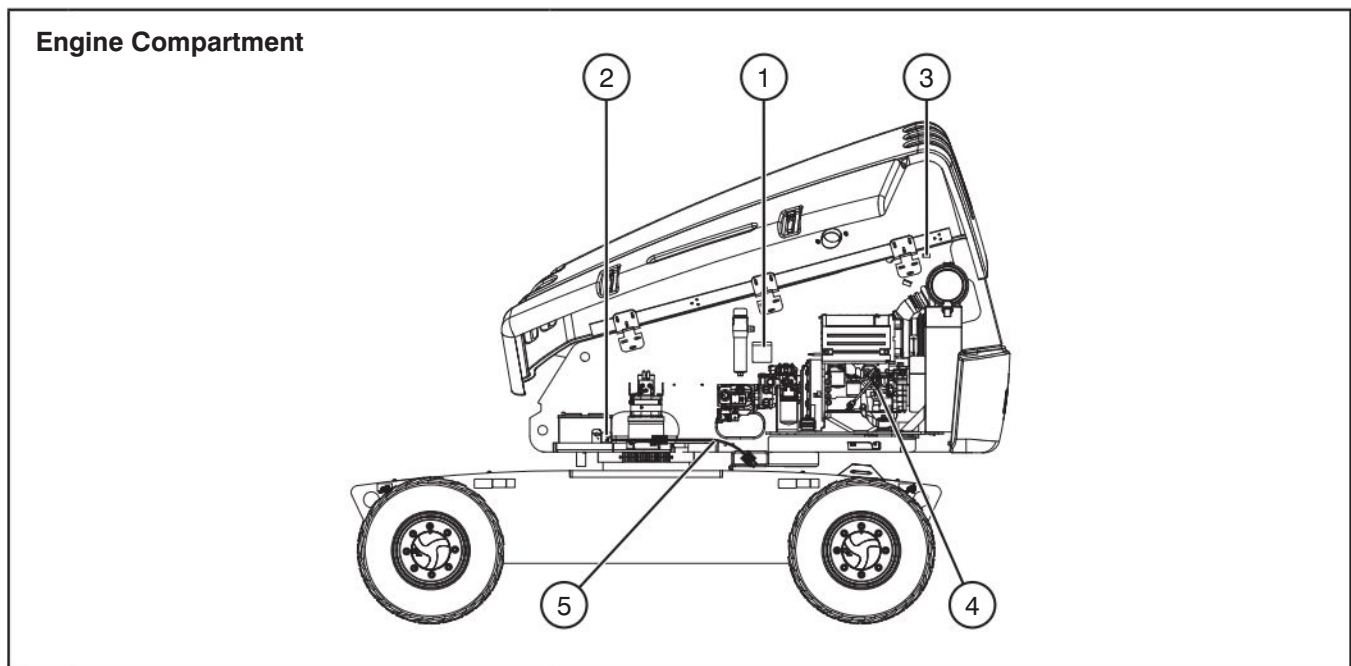


Figure 3-17. 61/66T Lifting Points

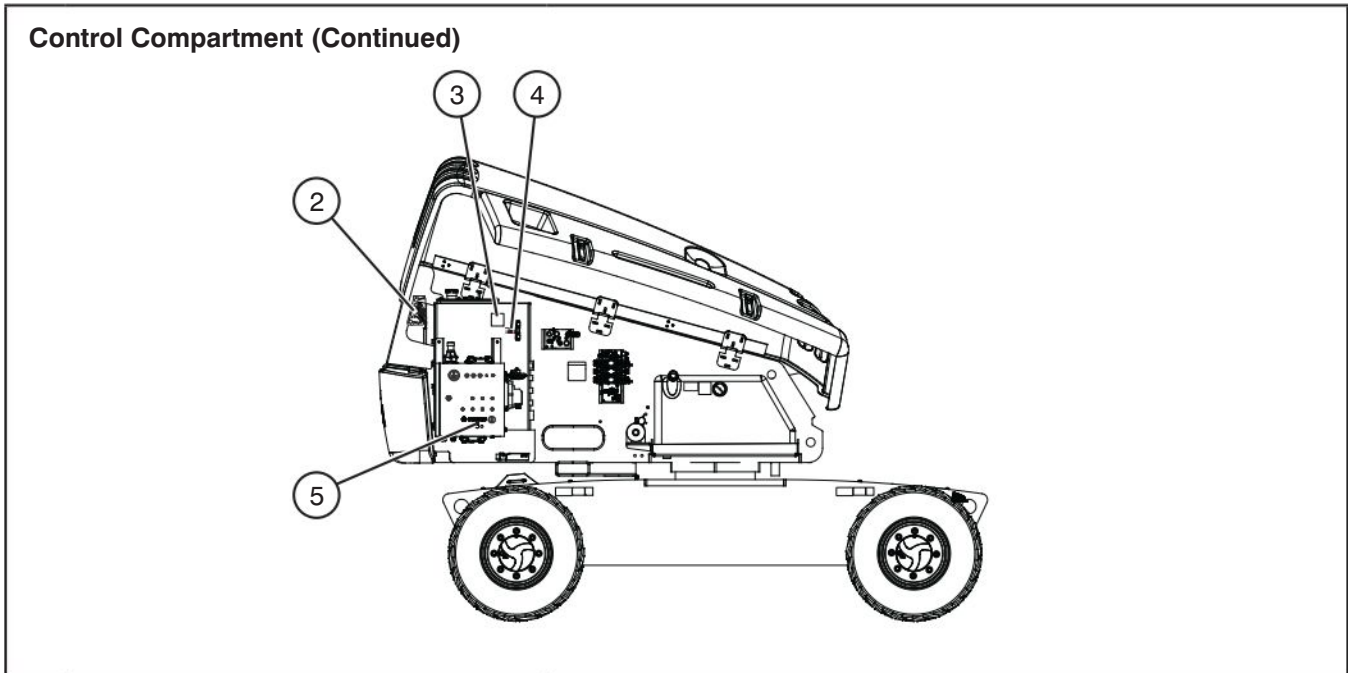
Table 4.2b Specifications and Features


MODEL				SJ 40T	SJ 45T	SJ 61T	SJ 66T	
Engine - Deutz	Engine Type			Deutz D2.9		Deutz TD2.9		
	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				
	Approved 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 - Deutz	Engine Type			Deutz D2011L03i		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-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				
	Approved Alternates			See Engine Manual				
	Lube Oil Sump Capacity			1.45 gal (5.5 L)		2.64 gal (10.0 L)		
	Engine - GM	Engine Type			3.0L GM Dual Fuel			
		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				
Approved 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)					
Engine - Kubota		Engine Type			2.5L Kubota Dual Fuel			
	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				
	Approved Alternates			See Engine Manual				
	Lube Oil Capacity			2.5 gal (9 L)				
	Standard Coolant	Ambient Temperature Limits	-20°F to 115°F (-29°C to +45°C)	Recochem 50/50 Extended Life Coolant				
	Arctic Coolant Option		-40°F to 115°F (-40°C to +45°C)	Recochem 60/40 Extended Life Coolant				
	Coolant Capacity			3.17 gal (12 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				
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 15				
Hydraulic Tank Capacity				59 gal (223.3 L)				

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No.	Label Pictorial	Description
1		<p><b>Winching/Towing/Pushing Procedure</b> Refer to Operating manual.</p> <ol style="list-style-type: none"> <li>1. Block or chock wheels to prevent aerial platform from rolling.</li> <li>2. Turn main power disconnect switch to off position. At engine side:</li> <li>3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump.</li> <li>4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side:</li> <li>5. Locate brake valve and pump.</li> <li>6. Push in black knob.</li> <li>7. Pump by slowly pushing red knob in and out until 300 psi/ 21 bar shows on the gauge (if equipped). Brake is now released. Refer to <a href="#">Section 2.5 Winching &amp; Towing Procedure</a>.</li> <li>8. A) Remove blocks from wheels. B) Push/tow/winch to desired location.</li> <li>9. Block or chock wheels to prevent aerial platform from rolling. At hydraulic tank side:</li> <li>10. Reset brake by pulling out black knob. At engine side:</li> <li>11. Close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis).</li> </ol> <p style="text-align: center;"><b>NOTE</b> Before operation, ensure all blocks are removed from wheels.</p>



No.	Label Pictorial	Description		
2		<p><b>Grease Points Maintenance</b></p> <p>Refer to service and maintenance manual “3</p>		<p><b>Hydraulic Oil</b></p> <p>Replace hydraulic fluid with Shell Tellus T46 or approved alternate (see <a href="#">Table 4.2b</a>).</p> <p>(Note: Cold weather starting temperatures can be improved with Skyjack options. Please consult your nearest Skyjack service center.)</p>
4		<p><b>Hydraulic Oil Level</b></p> <p>Indicates minimum/maximum oil level.</p>		
5		<p><b>Positive Air Shutoff (If Equipped)</b></p> <p>Use this switch to trigger the positive air shutoff valve.</p>		

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