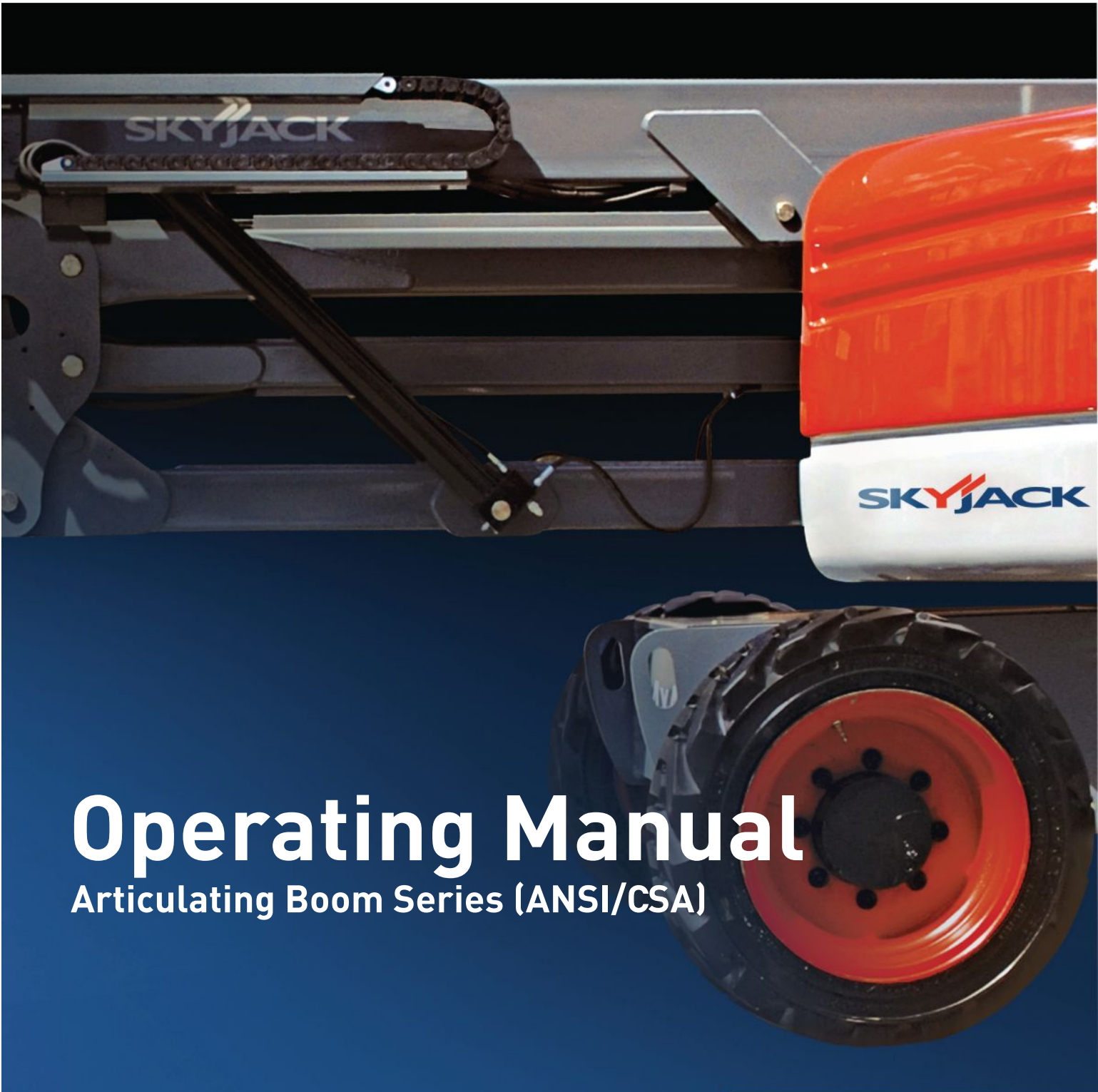


MODELS | SJ 46AJ



Operating Manual

Articulating Boom Series (ANSI/CSA)

143896AD-A January 2018



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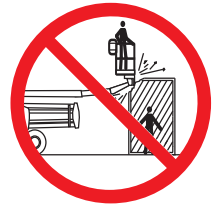
Safety Precautions (Continued)

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.



- **ENSURE** that there are no personnel or obstructions in the path of travel, including blind spots.



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



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



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



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



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



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



- **BE AWARE** of overhead obstructions or other possible hazards around the aerial platform when driving or lifting.



- **STUNT** driving and horseplay are prohibited.
- **ENSURE ALL** tires are in good condition and lug nuts are properly tightened.
- **DO NOT** alter or disable limit switches or other safety devices.

- **BE AWARE** of crushing hazards. Keep all body parts inside platform guardrail.



- **DO NOT** use the aerial platform without guardrails, locking pins and the entry gate in place.

- **BE AWARE** of blind spots when operating the aerial platform.



- **DO NOT** exceed the rated capacity of the aerial platform. Do make sure the load is evenly distributed on the platform.

2.5-12 Platform Control Console (Continued)

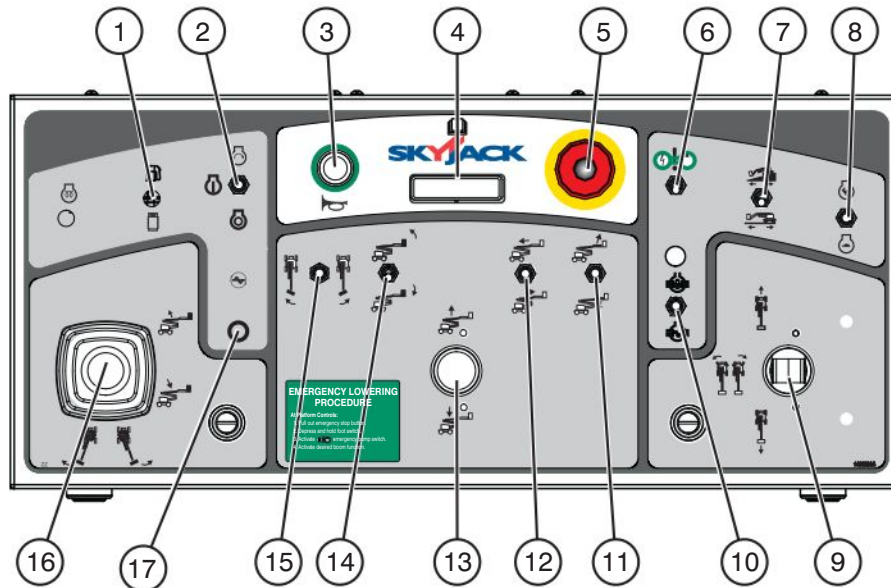


Figure 2-7. Platform Control Console

9. Drive/Steer Controller - This one-hand lever controls driving “” forward or “” backward. The rocker switch controls steering “” left or “” right. Internal springs return it to neutral when stick is released.

10. Differential Lock Switch - This momentary switch, when pushed forward and then released, engages “” differential lock and turns differential light on. When pulled backward and then released, disengages “” differential lock and turns differential light off.

11. Jib Up/Down Switch - This switch controls “” up or “” down movement of jib.

12. Fly Boom Extend/Retract Switch - This switch controls “” extension or “” retraction of fly boom.

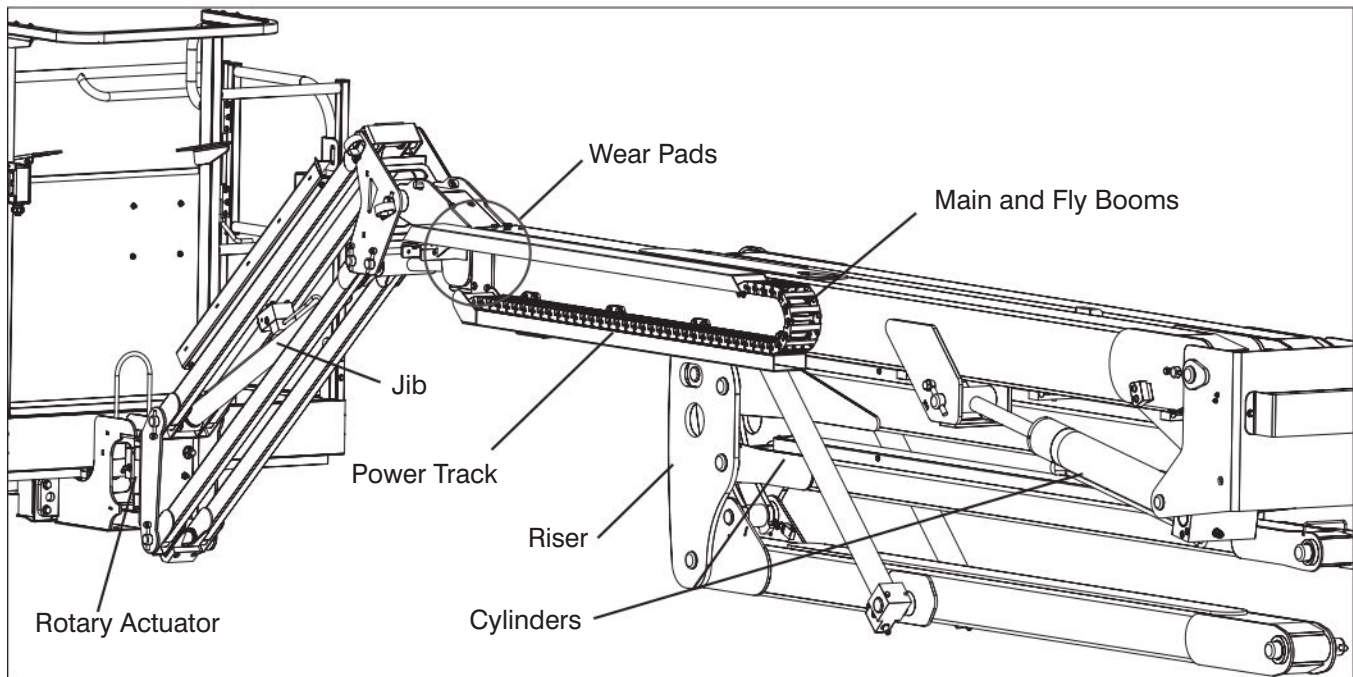
13. Riser Raise/Lower Switch - This switch controls “” raising or “” lowering of riser.

14. Platform Leveling Override Switch - This switch overrides automatic leveling of platform and controls “” tilting up or “” tilting down of platform.

15. Platform Rotation Switch - This switch controls “” left or “” right rotation of platform.

16. Boom/Turret Controller - This dual-axis lever controls “” raising or “” lowering of main boom or rotating “” left or “” right of turret.

17. Generator On/Off Switch (If Equipped) - This switch turns the hydraulic generator “” on or “” off.



2.8-11 Rotary Actuator

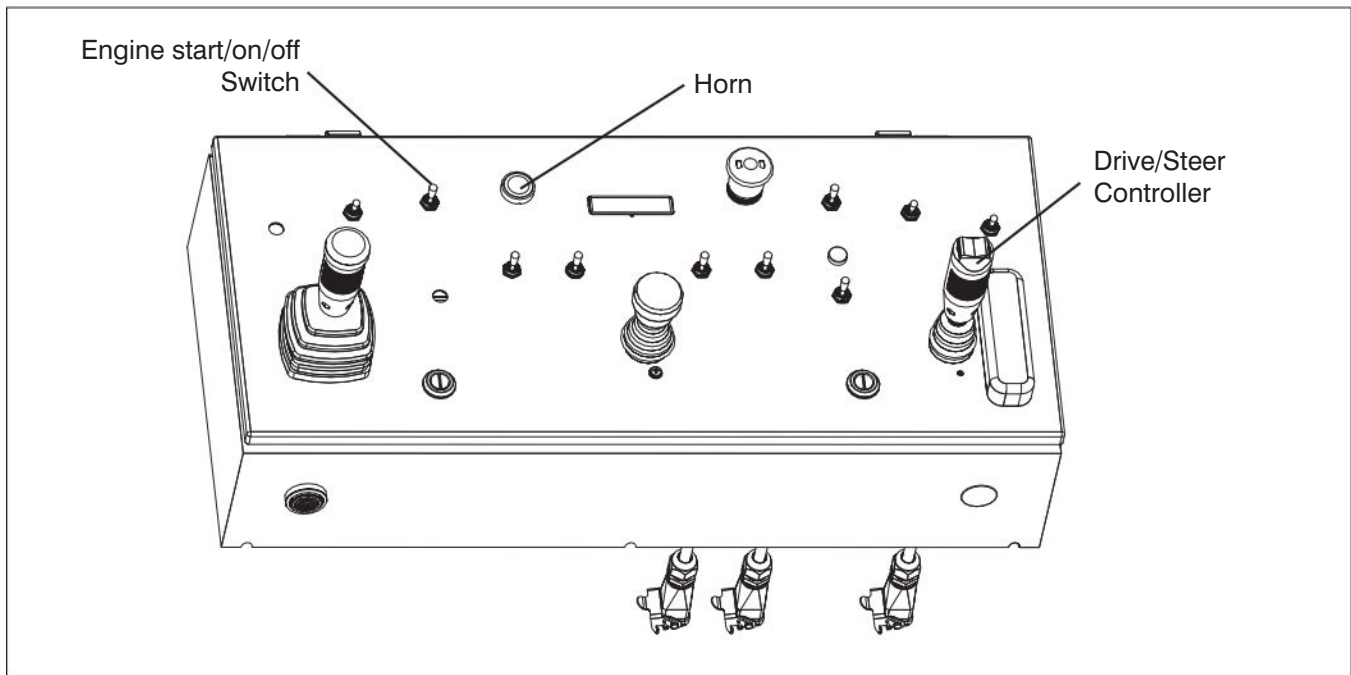
- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts and pins are properly tightened.
- Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.

2.8-12 Jib (If Equipped)

- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts and pins are properly tightened.
- Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.

2.8-13 Boom

- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts and pins are properly tightened.
- Ensure there are no visible cracks in welds or structure and there are no signs of deformation.
- Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Cylinders**
 - Ensure all cylinders are properly secured and there is no evidence of leakage.
- **Wear Pads**
 - Ensure all bolts are tight, there is no visible damage to the wear pads and that no parts are missing.
- **Hoses**
 - Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Power Track**
 - Ensure there are no loose or missing parts and there is no visible damage.






- **Test Emergency Power**


**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.

1. On platform control console, push in “” emergency stop button to turn engine off.
2. Pull out “” emergency stop button.
3. Select “” on position from engine enable switch.
4. Depress and hold footswitch.


5. Push and hold “” emergency power switch and activate each function control handle or switch.

Result: All boom and steer functions should operate. Drive functions should not operate.

NOTE

The emergency power unit has two-minute duty cycle.

- **Test Horn**

1. Push “” horn pushbutton.
- Result:** Horn should sound.

2.12 Loading/Unloading

Know and heed all national, state/provincial and local rules which apply to transporting of aerial platforms.

Only qualified personnel shall operate machinery during loading/unloading.

Be sure vehicle capacity and loading equipment hoists, chains, straps, etc., are sufficient to withstand maximum aerial platform weight.

The transport vehicle must be parked on a level surface and must be secured to prevent rolling while aerial platform is being loaded or unloaded.

2.12-1 Loading and Tie-down

1. Lock turret using turret transportation lock (refer to [Section 2.12-2](#)).
2. Turn key switch to “○” off position and remove key before transporting.
3. Turn main power disconnect switch to “○” off position.
4. Chock aerial platform wheels (if necessary).
5. Remove all loose items.
6. Anchor down aerial platform to transport surface using tie-down points (refer to [Figure 2-10](#)).

7. Secure boom from side-to-side movement using lower platform mount between boom end and platform. Do not use excessive downward force when securing boom section.



WARNING

Inspect aerial platform for loose or unsecured items.

NOTE

For loading and unloading using a winch line, refer to [Section 2.13](#).



WARNING

DRIVING ON A SLOPE

- When driving on a slope greater than 30%, the platform capacity is limited to 300 lb. (136 kg).
- The platform must be between the non-steer wheels and must be on the downside of the hill.
- When slope increases to above 45%, the forward drive is disabled but reverse drive remains active.

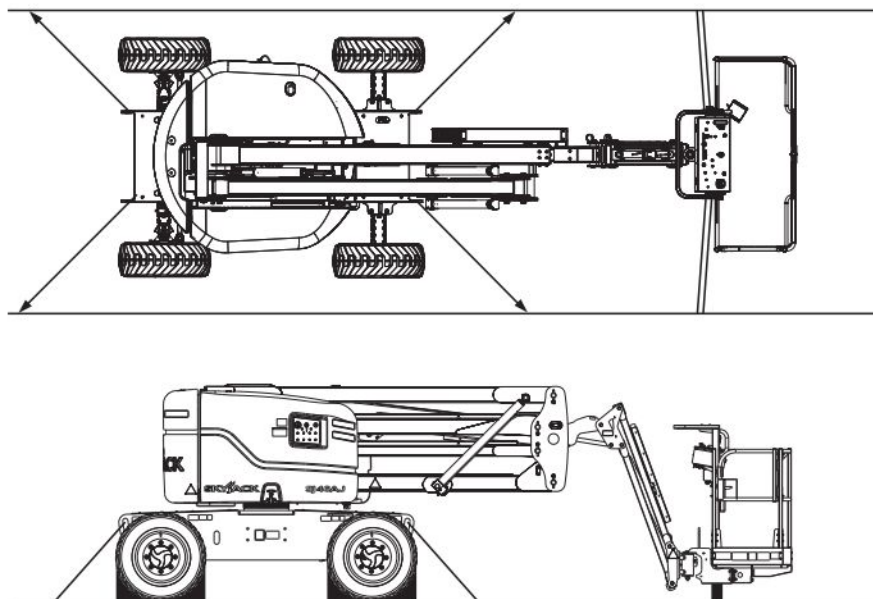


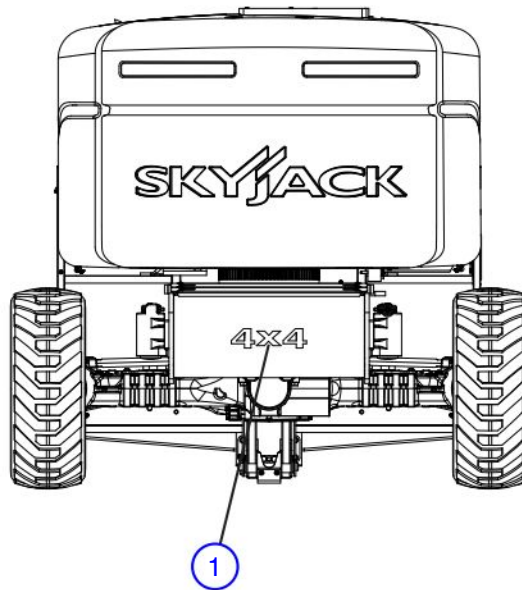
Figure 2-10. Tie-down Points


Table 2.2b Specifications and Features

MODEL			SJ 46AJ	
Engine - Deutz	Engine Type		Deutz D2011L03i	
	RPM Settings		1300 Low/1650/2000 High	
	Gross Intermittent HP		48 hp (35.8 kW)	
	Horsepower @ 2000 rpm (intermittent)		38.8 hp (28.9 kW)	
	Fuel Type		Diesel	
	Fuel Tank Capacity		17 gal. (64 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		1.45 gal. (5.5 L)		
Engine - GM	Engine Type		3.0L GM Dual Fuel	
	RPM Settings		900 Low/1650/2000 High	
	Gross Intermittent HP		70 hp (52.2 kW)	
	Horsepower @ 2000 rpm (intermittent)		54.8 hp (40.8 kW)	
	Fuel Type - Dual		Gasoline/Propane	
	Fuel Tank Capacity		17 gal. (64 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	Recommended Oil	Type	Shell Tellus T46	
		Operating and Oil Temperature Limits	Cold Start	Down to 11°F (-11°C)
			Ambient Operation	113°F (+45°C)
	Max. Oil Temp.		200°F(+93°C)	
	Approved Alternates		Chevron Rykon MV	
	<i>(Note: Cold weather starting temperatures can be improved with Skyjack options. Please consult your nearest Skyjack service center.)</i>		Mobilfluid 424	
		Esso Univis N46		
Hydraulic Tank Capacity		24 gal. (91 L)		

123AB-ANSI

Rear Side - Base



No.	Label Pictorial	Description
1		<p>4x4 (If equipped)</p> <p>Product identifier - 4 wheel drive</p>

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