SKYJACK

MAINTENANCE & PARTS MANUAL



SJ-800 Series

Engine Powered

Models: ROUGH TERRAIN SERIES 8831 & 8841

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Table 2.3b Maximum Platform Capacities (Evenly Distributed w/ Optional #7 Tires) - ANSI/CSA

MODEL		Total		First Extension		Second Extension	
		Capacity	Number of Occupants	Capacity	Number of Occupants	Capacity	Number of Occupants
7127	One Extension Platform	1500 lb. 680 kg	5	500 lb. 227 kg	2	Not Available	
7135	One Extension Platform	900 lb. 408 kg	3	300 lb. 136 kg	1	Not Available	
8831	No Extension Platform	2000 lb. 907 kg	6	Not Available			
	One Extension Platform	1700 lb. 771 kg	6	500 lb. 227 kg	2	Not Available	
	Two Extension Platforms	1400 lb. 635 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2
8841	No Extension Platform	1250 lb. 567 kg	5	Not Available			
	One Extension Platform	1250 lb. 567 kg	5	500 lb. 227 kg	2	Not Available	
	Two Extension Platforms	1250 lb. 567 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2
9250	No Extension Platform	1500 lb. 680 kg	5	Not Available			
	One Extension Platform	1500 lb. 680 kg	5	500 lb. 227 kg	2	Not Available	
	Two Extension Platforms	1500 lb. 680 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2

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NOTE:
Occupants and materials are not to exceed rated load.
Refer to capacity label at sides of platform for additional information and for models equipped with options.

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-Check continuity. Replace if defective.
6. Defective fuse (F6).
-Check fuse. Replace if defective.
7. Loose or broken wire #4002 from fuse (F6) to main power relay (10ACR).
-Check continuity. Replace if defective.
8. Loose or broken wire #2002 from main power relay (10ACR) to check engine light (CEL1).
-Check continuity. Replace if defective.
9. Loose or broken wire #2002 from main power relay (10ACR) to white ECU connector at pins #22 and #23.
-Check continuity. Replace if defective.
10. Loose or broken wire #00 from chassis ground to the white ECU connector at pins #20 and #21.
-Check continuity. Replace if defective.
11. Check bulb.
-Replace if defective.

NOTE

For further information on Nissan Dual Fuel Troubleshooting, refer to Section 4, EMS Troubleshooting.

4. -11. Glow Plugs Inoperative from Engine Controls (Diesel Models)

1. Loose or broken wire #31A from glow plug switch (S31) to glow plug relay (31ACR).
-Check continuity. Replace if defective.
2. Loose or broken wire #02 from glow plug relay (31ACR) to base terminal block (TB1).
-Check continuity. Replace if defective.
3. Loose or broken wire #103 from starter solenoid to relay (31ACR).
-Check continuity. Replace if defective.
4. Loose or broken wire #91A from relay (31ACR) to engine glow plugs (EGP1).
-Check continuity. Replace if defective.
5. Defective glow plug relay (31ACR).
-Check relay. Replace if defective.
6. Defective glow plugs.
-Check glow plugs. Replace if defective.

4. -12. Glow Plugs Inoperative from Platform (Diesel Models)

1. Loose or broken wire #10 from key selector switch (S3) to glow plug switch (S13).
-Check continuity. Replace if defective.
2. Defective glow plug switch (S13).
-Check switch. Replace if defective.
3. Loose or broken wire #31 from glow plug switch (S13) to glow plug relay (31CR).
-Check continuity. Replace if defective.
4. Loose or broken wire #02 from relay (31CR) to base terminal block (TB1).
-Check continuity. Replace if defective.
5. Loose or broken wire #05 from base terminal block (TB1) to relay (31CR).
-Check continuity. Replace if defective.
6. Loose or broken wire #31A from relay (31CR) to base terminal block (TB1).
-Check continuity. Replace if defective.
7. Loose or broken wire #31A from base terminal block (TB1) to glow plug relay (31ACR).
-Check continuity. Replace if defective.
8. Defective relay (31CR).
-Check relay. Replace if defective.
9. Loose or broken wire #02 from relay (31ACR) to base terminal block (TB1).
-Check continuity. Replace if defective.

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Figure 5.1-16 Oxygen Sensor Testing (Nissan)

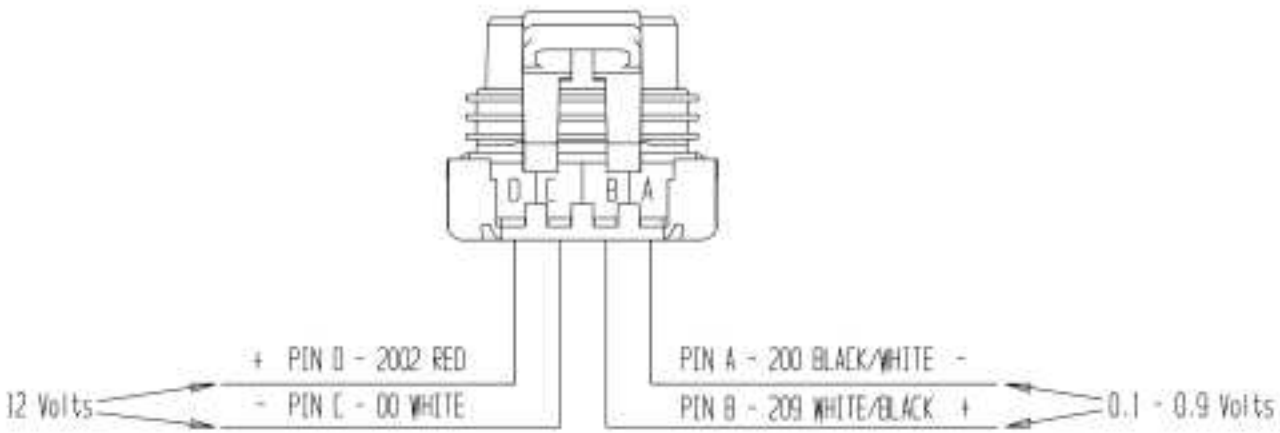
Test with the Oxygen Sensor connected "in circuit"

CAUTION

This is a Heated Oxygen Sensor

HEATED OXYGEN SENSOR

PIN A - 200 BLACK/WHITE	Negative supply to ECU
PIN B - 209 WHITE/BLACK	Positive signal from ECU
PIN C - 00 WHITE	System ground for heater
PIN D - 2002 RED	System positive for heater



NOTE - Check voltages with engine running up to operating temperature and harness connected.

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Table 5-2 Torque Specifications

Cartridge						
Torque	Size					
	8	38	58	10	12	16
Lbf.ft (max)	20			25	35	50
Lbf.in (max)	240			300	420	600
Nm (max)	27.12			33.9	47.46	67.8

Coils	
Torque	Size
	All coils
Lbf.ft (max)	4 to 5
Lbf.in (max)	48 to 60
Nm (max)	5.42 to 6.78

SAE Plugs								
Torque	Size							
	2	4	5	6	8	10	12	16
Lbf.ft (max)	3	10	15		25		30	35
Lbf.in (max)	36	120	180		300		360	420
Nm (max)	4.07	13.56	20.34		33.9		40.68	47.46

Type of Bolt	Torque (ft-lb)	Torque (Nm)
Directional valve mounting bolts	2.33 (28-32 in-lb)	3.16 - 3.61

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Table 2.5c Tire Specifications - AS

WARNING

Air pressure can affect stability. Temperature changes can affect air pressure. It is important to visually inspect all tires for proper tire inflation prior to use. Tires should be checked by end user on a daily basis. Tire inflation pressures must be checked weekly with a calibrated gauge. If the measured pressure is less than the specification, reinflate to the pressure specified below. Tires must not be inflated above the recommended specification. Do not intermix tires of different types on one aerial platform. Use only tires of type originally supplied.

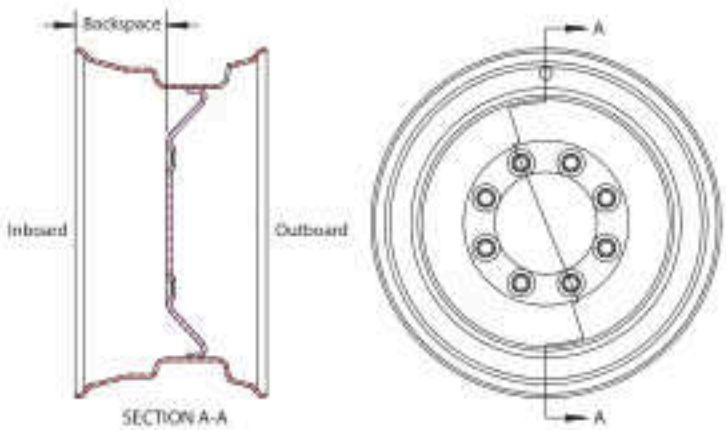
Tire Size		Fill Specification			Usage†				
		Fill Type	Ply Rating	Pressure (Factory)	MID SIZE		FULL SIZE		
				Psi (kPa)	7127	7135	8831	8841	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	75* (517.1)*	S	S	S	S	S
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	75* (517.1)*	O	O	O	O	O
#6F	10-16.5 CARLISLE US LOADER	Foam	10	N/A	O	O	O	O	O
#7F	31-15.5-15 GOODYEAR TERRA XTRAC		8	N/A	O	O	O	O	O

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* Factory preset @ 20°C, **Check pressures regularly as tires can lose pressure over time and over different ambient temperatures even under normal conditions.**

† Usage: (**S**)tandard Or (**O**)ptional
(N/A) Not Available

Rim Backspace Diagram



Rim Size	Backspace					
	7127		7135	8831	8841	9250
Serial Number	Contact Skyjack Service Department					
#6A & #6F	121mm	95 mm	95 mm	121mm	121mm	95 mm
	4.75 in.	3.75 in.	3.75 in.	4.75 in.	4.75 in.	3.75 in.
#7F	All models are 135 mm					

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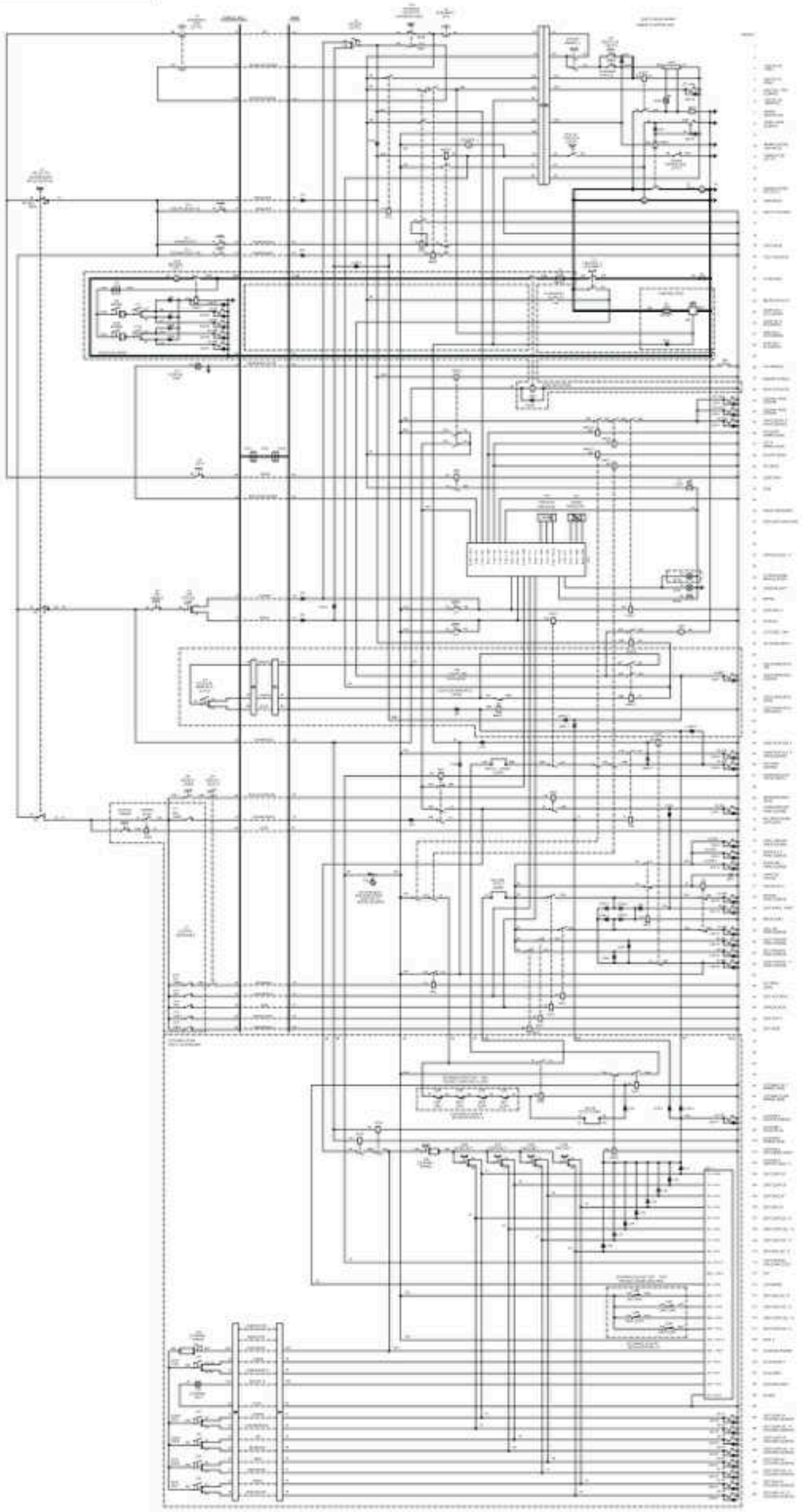
Figure 3.5-1c. Electrical Schematic - ANSI/SIA And CSA (Shown With Nissan Dual Fuel Engine And No Options)

(Refer to Serial Breakdown Reference Chart)

Serial Breakdown Reference Chart	
Model	Serial Number
SJ-800	43579 & Above

Refer to following page(s) to locate model, serial number and respective diagram

Figure 3.5-1a Figure 3.5-1b



NOTE: For CE machines equipped with load sensing system refer to the load sensing supplemental manual.

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