MODELS | SJ7127 RT SJ7135 RT SJ8243 RT SJ8850 RT



Service Manual

Mid-Size Rough Terrain Series

Part No. 143901AF April 8, 2024

SKYJACK

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Section 1
SCHEDULE MAINTENANCE

Table of Contents

Operator's Responsibility for Maintenance

Aerial Platform Definition....7
Purpose of Equipment....7
Use of Equipment....7
Manuals....7
Operator....7
Service Policy and Warranty....7
Optional Accessories....7
Scope of this Manual....8
Operator Safety Reminders....9
Electrocution Hazard....9
Safety Precautions....10
Maintenance and Inspection Schedule....13
Owner's Annual Inspection Record....13
Replacement Parts....13
Maintenance and Service Safety Tips....13
Hydraulic System & Component Maintenance and Repair....14
Maintenance Hints....15
Railing Maintenance and Repair....15

Service and Maintenance

About this Section....17
Service Bulletins....17
Maintenance and Inspection....17
Maintenance Instructions....17

Tables

Table 1.1 Owner's Annual Inspection Record....18
Table 1.2 Maintenance and Inspection Checklist....19

Scheduled Maintenance

1.1 Scheduled Maintenance Inspections....20
1.2 Function Tests....31

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Table 2.2b Maximum Platform Capacities (Evenly Distributed w/ Optional #7 Tires) - ANSI/CSA

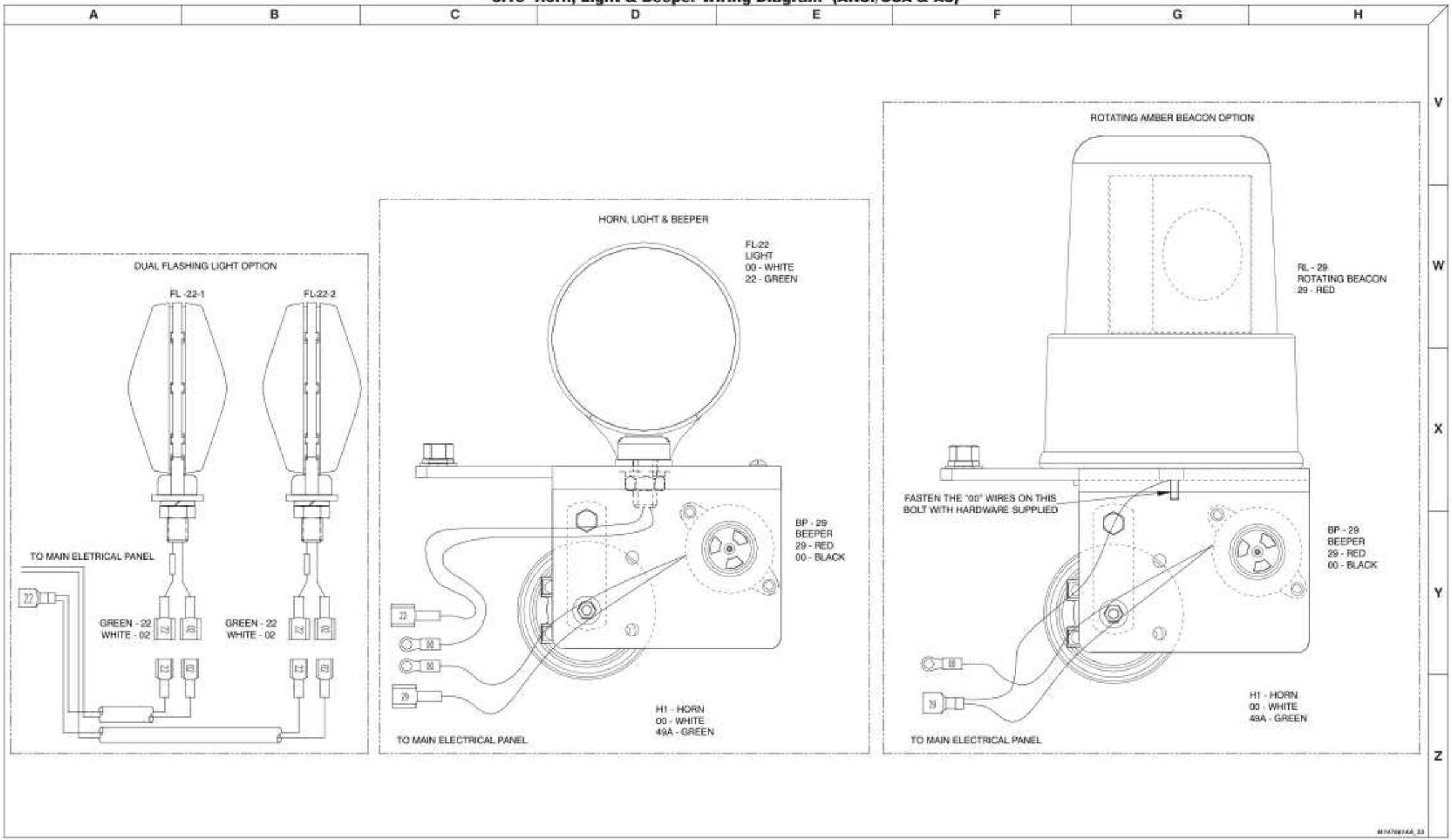
MODEL		Total		First Extension		Second Extension	
		Capacity	Number of Occupants	Capacity	Number of Occupants	Capacity	Number of Occupants
7127	One Extension Platform	1500 lb. 681 kg	5	500 lb. 227 kg	2	Not Available	
7135	One Extension Platform	900 lb. 408 kg	3	300 lb. 136 kg	1	Not Available	
8831	No Extension Platform	2000 lb. 908 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. 681 kg	5	Not Available			
	One Extension Platform	1500 lb. 681 kg	5	500 lb. 227 kg	2	Not Available	
	Two Extension Platforms	1500 lb. 681 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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3.19 Horn, Light & Beeper Wiring Diagram (ANSI/CSA & AS)



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5.10-3 Auto-leveling outrigger error code breakdown

RELEASE OUTRIGGER DEMAND!	5/5
Check inputs on P2 pins 5 & 6 - the "auto-level" or "auto-retract" input is active at power-on or when it is not allowed to carry out the function.	

OUTRIGGERS CANNOT BE MOVED!	1/2
Check input on P2 pin 10 – "auto-level" or "auto-retract" has been requested but the platform is elevated.	

NOT FULLY LEVEL	2/1
The outrigger legs are all down (touching the ground) but the platform is not fully level.	

OUTRIGGERS NOT HOME	2/2
The outrigger legs are not all down (touching the ground) and also are not all home (fully retracted).	

B+ SUPPLY TOO LOW	5/1
CHECK OUTRIGGER SUPPLY (P4-9)	5/2
Check that the battery voltage is not too low.	

VEHICLE TILTED	1/1
These is not a true fault – move the vehicle to level ground!	

TESTING HWFS	7/8
STARTUP!	7/7
These are not true faults unless they do not clear – the start-up tests should only occur for a short time.	

OUTRIGGERS MANUALLY CONTROLLED!	6/6
This is not a true fault – the outriggers are being manually operated (one or more outrigger legs on P4 pins 1-8 is high, when the outrigger control module is not active.	

CANNOT LEVEL (BAD TILT SENSOR)	7/1
FAULT: BAD TILT SENSOR	7/1
FAULT: BAD HWFS	7/2
FAULT: BAD SLAVE MICRO	7/5
FAULT: HWFS STALLED!	7/6
FAULT: P2-5 FAULTY	8/1
FAULT: P2-6 FAULTY	8/2
FAULT: P2-8 STUCK ON	8/3
FAULT: P2-8 ALWAYS ON	8/4
FAULT: P2-8 ALWAYS OFF	8/5
These are internal faults. If the fault persists after the power has been reset, the outrigger control module may need to be replaced.	

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Table 2.3a Tire Specifications - ANSI/CSA

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.

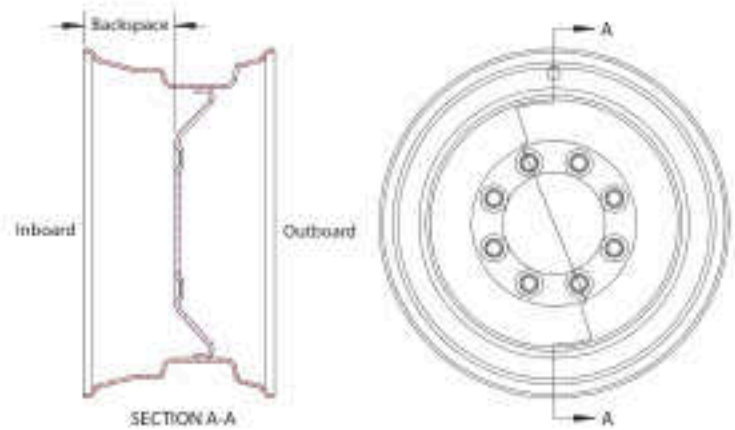
Tire Size		Fill Specification			Usage†						
					MID SIZE				FULL SIZE		
		Fill Type	Ply Rating	Pressure (Factory) (kPa)	7127	7135	8243	8850	8831	8841	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	75* (517.1)*	S	S	S	N/A	S	S	S
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	75* (517.1)*	O	O	O	N/A	O	O	O
#7A	31-15.5-15 GOODYEAR TERRA XTRAC		8	45* (310.3)*	O	O	O	N/A	O	O	O
#6F	10-16.5 CARLISLE US LOADER	Foam	10	N/A	O	O	O	S	O	O	O
#6F	10-16.5 OTR OUTRIGGER (Non-Marking)		10	N/A	O	O	O	O	O	O	O
#7F	31-15.5-15 GOODYEAR TERRA XTRAC		8	N/A	O	O	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	8243	8850	9250
Serial Number	Contact Skyjack Service Department						
#6 & #6F	3-3/4"	3-3/4"	4-3/4"	4-3/4"	3-3/4"	3-3/4"	3-3/4"
	95 mm	95 mm	121mm	121mm	95 mm	95 mm	95 mm
#7 & #7F	All models are 4-3/8"						

6038AC-ANSI

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Section 3
SYSTEM COMPONENT IDENTIFICATION AND SCHEMATICS

Table of Contents

Charts

3.1 Hydraulic Symbol Chart 62
3.2 Electrical Symbol Chart 63

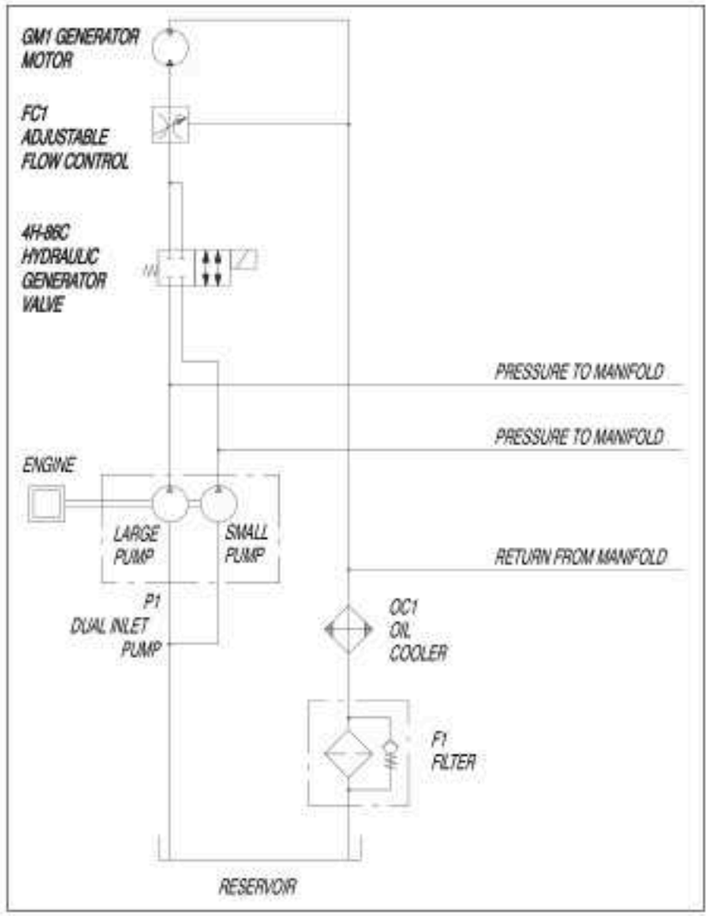
Parts List

3.3 Hydraulic Component Parts List 64
3.4 Electrical Component Parts List 67

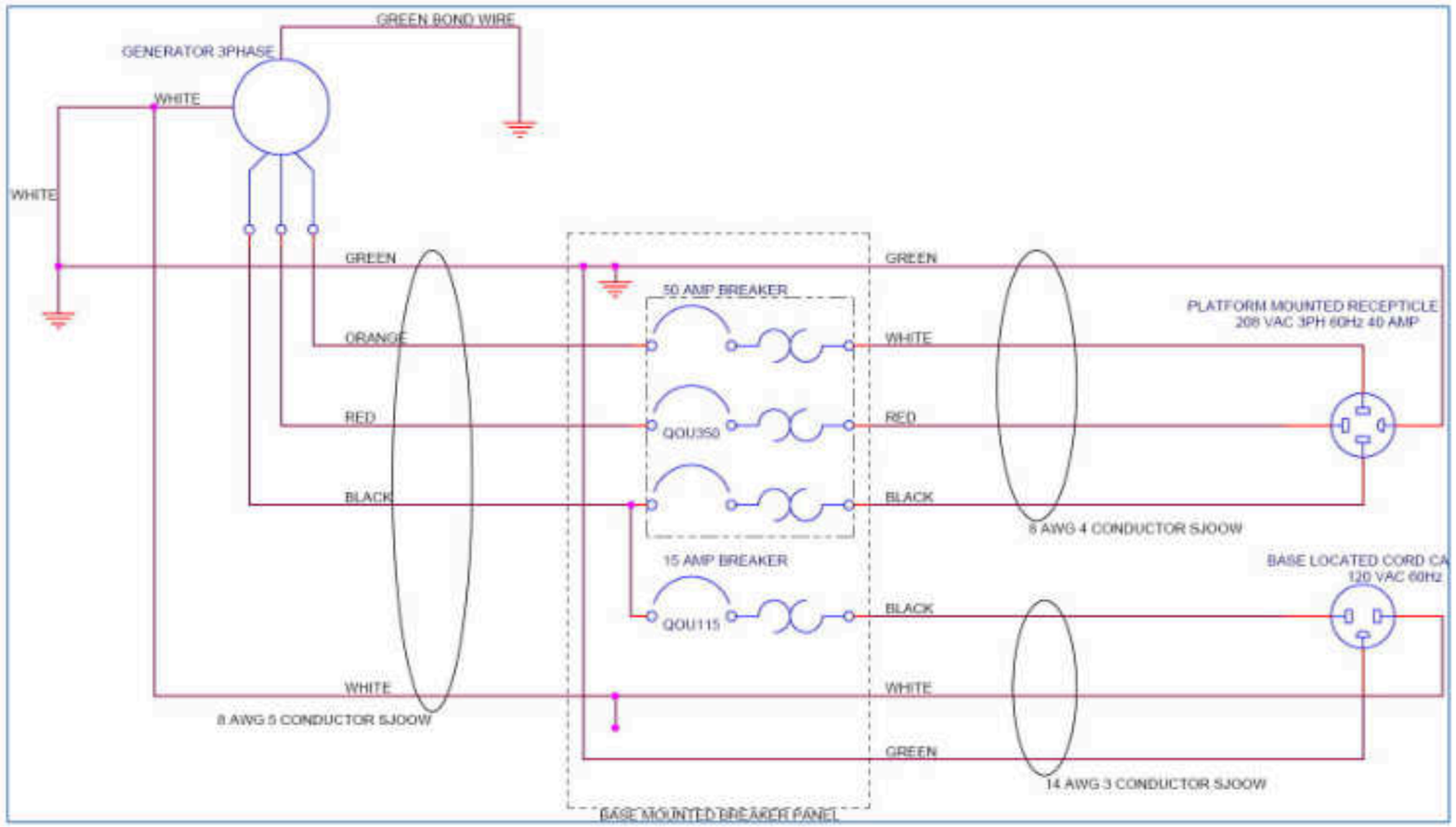
Diagrams and Schematics

3.5 Platform Control Console Diagram - All Options (ANSI/CSA & AS) 74
3.6 Platform Control Console Diagram - All Options (CE) 75
3.7 Control Cable Assemblies Diagram 76
3.8 Outrigger/Hydraulic Generator Control Console Wiring Diagram 77
3.9 Electrical Inverter Wiring Diagram 78
3.10 Hydraulic Schematic - Models 7127 & 7135 79
3.11 Hydraulic Schematic - Models 8243 & 8850 80
3.12 Hydraulic Manifold Components and Port Identifications 81
3.13 Main Manifold / Cabinet Harness Wiring Diagram (ANSI/CSA & AS) 82
3.14 Main Manifold / Cabinet Harness Wiring Diagram (CE) 83
3.15 Electrical Panel Wiring Diagram - Model 71xx (ANSI/CSA & AS) 84
3.16 Electrical Panel Wiring Diagram - Models 8243 & 8850 (ANSI/CSA & AS) 85
3.17 Electrical Panel Diagram (CE) 86
3.18 Electrical Panel Harnesses Wiring Diagram 87
3.19 Horn, Light & Beeper Wiring Diagram (ANSI/CSA & AS) 88
3.20 Horn, Light, Beeper & Load Sensing Wiring Diagram (CE) 89
3.21 Powered Extension Related Assemblies & Electrical Wiring Diagram 90
3.22 Lift Cylinder Holding Valve Harness Connection Diagram 91
3.23 Emergency Lowering System Connection Diagram - Models 8243 & 8850 92
3.24 Flashing Light Relay Harness 93
3.24 Engine Harness Wiring Diagram - Diesel Fuel System (Kubota Engine) 94
3.25 Engine Harness Wiring Diagram - Dual Fuel System (Kubota Engine) 95
3.26 Engine Harness Wiring Diagram - GM Dual Fuel Engine 96
3.27 Electrical Schematic - Kubota Diesel Engine (ANSI/CSA & AS - All Options) 97
3.28 Electrical Schematic - Kubota Diesel Engine (ANSI/CSA, Model 71xx - Welder Options) 98
3.29 Electrical Schematic - Kubota Diesel Engine (CE - All Options) 99
3.30 Electrical Schematic - Kubota Dual Fuel Engine (ANSI/CSA & AS - All Options) 100
3.31 Electrical Schematic - GM Dual Fuel Engine (ANSI/CSA & AS - No Options) 101
3.32 Electrical Schematic - GM Dual Fuel Engine (ANSI/CSA & AS - All Options) 102
3.33 Interface & Engine Electrical Schematic - GM Dual Fuel Engine 103
3.34 Oil Cooler Electrical Panel Diagram 104
3.35 Hydraulic Generator Electrical Panel Diagram 105
3.36 12kW Generator Electrical Panel Diagram - Modification (Model 71xx) 106
3.37 12kW Generator Hydraulic and Electric Wiring Schematics (Model 71xx) 107
3.38 Outrigger Option Electrical Diagram (ANSI/CSA & AS) 108
3.39 Outrigger Option Electrical Diagram (CE) 109
3.40 Electrical Schematic - Kubota Dual Fuel Engine (ANSI, Model 71xx - All Options) 110

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HYDRAULIC SCHEMATIC



ELECTRIC WIRING SCHEMATIC

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