

SERVICE MANUAL (ANSI/CSA)

ROUGH TERRAIN SCISSORS

MODELS SJ7127 RT SJ7135 RT

163761AG April 8, 2024

SKYJACK

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Section 1
SCHEDULED MAINTENANCE

Table of Contents

Operator's Responsibility for Maintenance
Aerial Platform and Mobile Elevating Work Platform Definition 6
Purpose of Equipment 6
Use of Equipment 6
Manuals 6
Service Policy and Warranty 6
Operator Safety Reminders, Warnings, and Precautions 6
Maintenance and Inspection Schedule 7
Owner's Annual Inspection Record 7
Replacement Parts 7
Maintenance and Service Safety Tips 7
Hydraulic System & Component Maintenance and Repair 8
Maintenance Hints 9
Railing Maintenance and Repair 9

Service and Maintenance
About this Section 10
Service Bulletins 10
Maintenance and Inspection 10
Maintenance Instructions 10

Tables
Table 1.1 Owner's Annual Inspection Record 11
Table 1.2 Pre-Delivery/Maintenance Inspection Checklist 12

Scheduled Maintenance
1.1 Scheduled Maintenance Inspections 13
1.2 Function Tests 26

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

MODEL		Total		First Extension		Second Extension		Maximum Wind Speed	Tilt Cutout Setting (Degrees)
		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		12.5 m/s	2 x 4
7135	One Extension Platform	900 lb. 408 kg	3	300 lb. 136 kg	1	Not Available		12.5 m/s	2 x 4
8831	No Extension Platform	2000 lb. 908 kg	6	Not Available				12.5 m/s	2.5 x 4.5
	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				12.5 m/s	2.5 x 4.5
	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				12.5 m/s	2.5 x 4.5
	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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SOLENOID

1.75" AUTO SHUT OFF VALVE

402 GREEN TO POSI AIR KILL SWITCH - PIN 2

02 WHITE TO POSI AIR KILL SWITCH - PIN 1

POSI AIR SHUT OFF SWITCH BACK VIEW

SWITCH

LIGHT

BREAKER

RL-5 CONTROLLER

BREAKER

FRONT VIEW BREAKER

BAT PIN

AUX PIN

MASTER DISCONNECT

FROM ELECTRIC PANEL

BREAKER

ENGINE

SENSOR

HARNESS POSI AIR SHUT OFF

LIGHT

LIGHT

SWITCH

SWITCH

TO 1.75" AUTO SHUT OFF VALVE CONNECTOR

SOLENOID

SENSOR

TO MAGNETIC SENSOR

BREAKER

403 BLUE TO BREAKER - AUX PIN

RELAY

TO ELECTRICAL PANEL

ELECTRICAL PANEL

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5.9-2 Auto-leveling outrigger setting and error codes

Read the codes

Error codes are indicated with the flashing LED on the control module. When there is a fault, the LED on the outrigger control module flashes to indicate the error code number.

Identify the error code by counting the flashes as follows:

1. The first digit is indicated by half-second flashes followed by half-second pauses.
2. A 2.5-second pause follows.
3. The second digit is then indicated by half-second flashes followed by half-second pauses.
4. A 5-second pause follows, then the cycle repeats.

The LED continuously displays codes until the fault is cleared, the outrigger control module is reset and no longer detects the fault, or idle timeout becomes active.

Since the outrigger control module only reports one error, only one code can be read from the LED per instance. If the error is cleared and another is present, it will then be presented.

LED ERROR CODES

EVERYTHING OK	ON
VEHICLE TILTED	1/1
OUTRIGGERS CANNOT BE MOVED!	1/2
OUTRIGGERS NOT HOME	2/2
NOT FULLY LEVEL	2/1
RELEASE OUTRIGGER DEMAND!	5/5
CHECK OUTRIGGER SUPPLY (P4-9)	5/2
CANNOT LEVEL : BAD TILT SENSOR	7/1
OUTRIGGERS MANUALLY CONTROLLED!	6/6
TESTING HWFS	7/8
B+ SUPPLY TOO LOW	5/1
STARTUP!	7/7
FAULT: BAD SLAVE MICRO	7/5
FAULT: BAD TILT SENSOR	7/1
FAULT: BAD HWFS	7/2
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
FAULT: HWFS STALLED!	7/6

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Table 2.6 Torque Specifications

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

COILS	
Torque	Size
	All coils
Lb-ftt (max)	4 to 5
Lb-in (max)	48 to 60
Nm (max)	5.42 to 6.78

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

BOLTS		
Type of Bolt	Torque (ft-lb)	Torque (Nm)
Directional valve mounting bolts	2.33 (28-32 in-lb)	3.16 - 3.61
Wheel mounting bolts	140	189.8
Center drive sprocket mounting bolts	110 - 115 (242 Loctite)	149 -156
Hydraulic drive motor mounting bolts	120 (242 Loctite)	162
Positive battery post cable/fuse nut	7.5 (90 in-lb)	10.2

Newton-meter = Nm	Foot-Pound Force = ft-lb	Inch-Pound Force = in-lb

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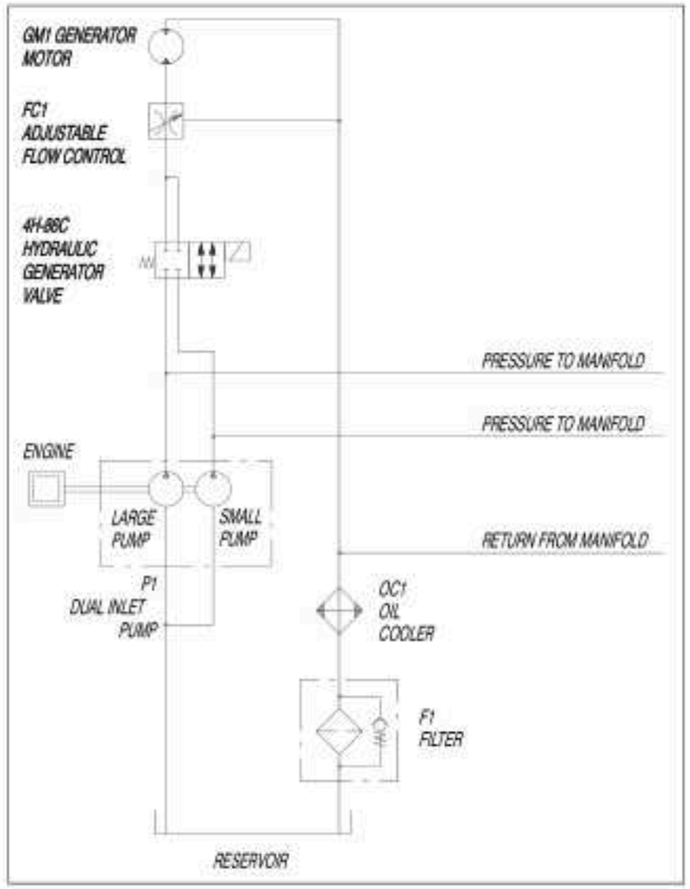
Section 4
TROUBLESHOOTING INFORMATION

Table of Contents

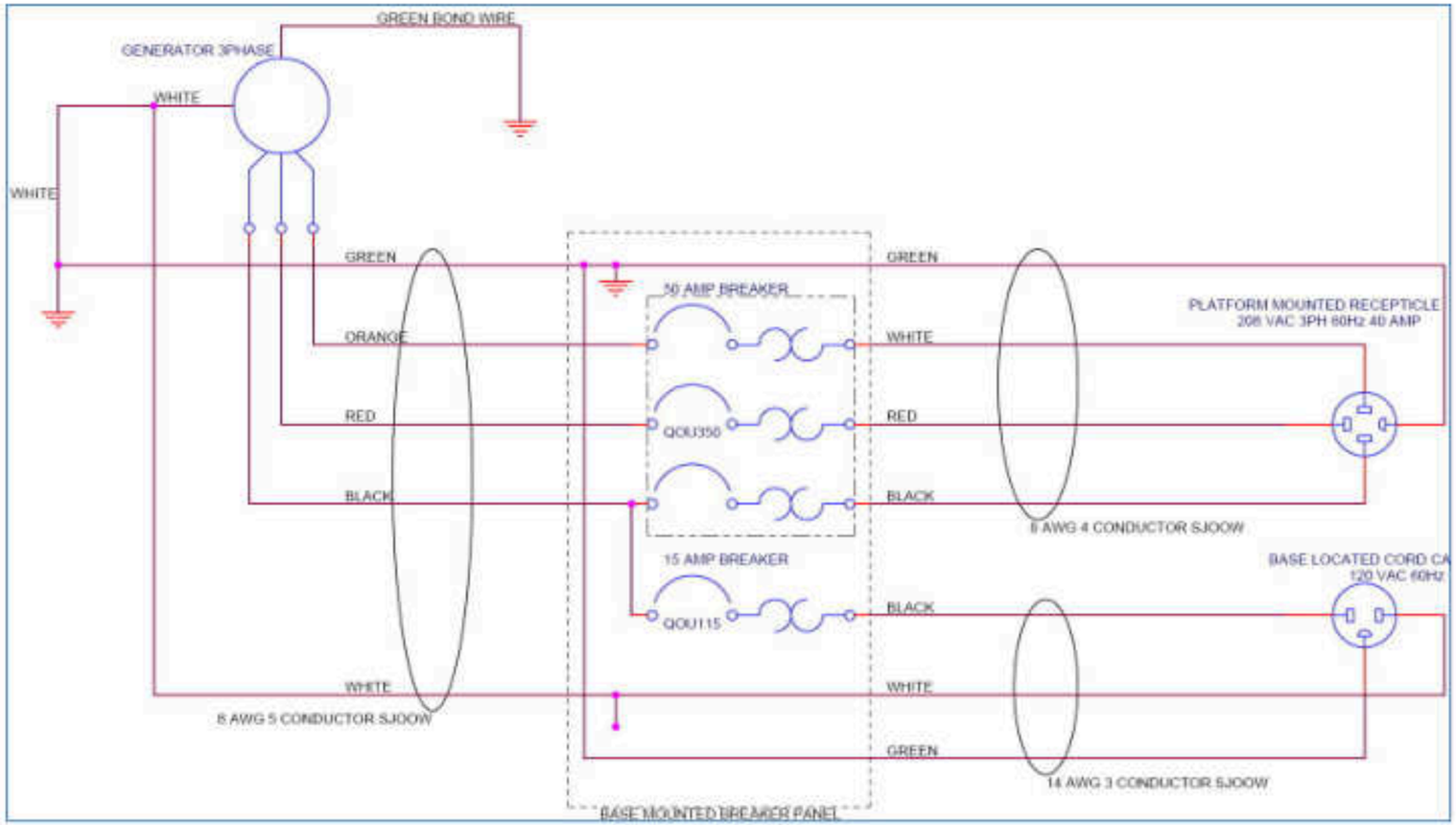
Electrical System

4.1-1 All Controls Inoperative....80
4.1-2 No Power to Platform (ANSI/CSA)....80
4.1-3 All Functions Inoperative from Platform....80
4.1-4 Engine will Not Crank from Platform....81
4.1-5 Engine will Not Crank from Base Controls (Kubota diesel)....81
4.1-6 Engine will Not Crank from Base Controls (Kubota dual fuel)....82
4.1-7 Engine Cranks but Stops Cranking after a few seconds....82
4.1-8 Glow Plugs Inoperative from Engine Controls....82
4.1-9 Glow Plugs Inoperative from Platform (Additional)....82
4.1-10 Engine Cranks but will Not Start (Kubota diesel)....83
4.1-11 Engine Cranks but will Not Start (Kubota dual fuel)....83
4.1-12 High Throttle on demand Inoperative (Kubota Dual Fuel)....84
4.1-13 High Throttle Inoperative....84
4.1-14 Drive and Steer Inoperative (Machines without outriggers option)....85
4.1-15 Drive and Steer Inoperative (machines with outriggers option)....86
4.1-16 Brakes will Not Release....87
4.1-17 Steer Right Inoperative....87
4.1-18 Steer Left Inoperative....88
4.1-19 Reverse Drive Inoperative....88
4.1-20 Forward Drive Inoperative....89
4.1-21 First Drive Speed and Steering Inoperative....89
4.1-22 Second Drive Speed Inoperative....90
4.1-23 Third Drive Speed Inoperative....91
4.1-24 High/Low Range Speed Inoperative....91
4.1-25 Up Circuit Inoperative from Platform or Base (machines without outriggers)....92
4.1-26 Up Circuit Inoperative from Base (ANSI/CSA)....93
4.1-27 Platform will Not Lift from Platform or Base Controls with Outriggers Retracted....93
4.1-28 Platform will Not Lift from Platform or Base Controls with Outriggers Extended....94
4.1-29 Down Circuit Inoperative from Platform or Base....95
4.1-30 Down Circuit Inoperative from Base....96
4.1-31 Powered Extension Platform Inoperative....96
4.1-32 Powered Extension Platform will Not Extend....96
4.1-33 Powered Extension Platform will Not Retract....97
4.1-34 Hydraulic Generator Inoperative....97
4.1-35 Hydraulic Generator will Not Shut Off from Generator Switch....98
4.1-36 All Outriggers Inoperative (auto-level and manual)....98
4.1-37 All Outriggers Inoperative (auto-level and manual from platform controls)....99
4.1-38 All Outriggers Inoperative (base controls)....99
4.1-39 All Outriggers Inoperative (auto-level)
A: Led Power Indicator Light at Outrigger Control Module OCM1 Not On Constant....99
4.1-40 All Outriggers Inoperative (Auto Level)
B: Led Power Indicator Light at Outrigger Control Module (OCM1) Flashing....100
4.1-41 Left Front Outrigger Inoperative Manually....101
4.1-42 Right Front Outrigger Inoperative Manually....101
4.1-43 Right Rear Outriggers Inoperative Manually....101

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HYDRAULIC SCHEMATIC



ELECTRIC WIRING SCHEMATIC

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