

SERVICE MANUAL (ANSI/CSA)

ROUGH TERRAIN SCISSORS

MODELS SJ7127 RT SJ7135 RT

157941AF 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 7
Purpose of Equipment 7
Use of Equipment 7
Manuals 7
Operating 7
Service & Maintenance 7
Operator 7
Service Policy and Warranty 7
Optional Accessories 7
Scope of this Manual 8
Operator Safety Reminders 8
Electrocution Hazard 9
Safety Precautions 10
Maintenance and Inspection Schedule 14
Owner's Annual Inspection Record 14
Replacement Parts 14
Maintenance and Service Safety Tips 14
Hydraulic System & Component Maintenance and Repair 15
Maintenance Hints 15
Maintenance Hints 16
Railing Maintenance and Repair 16

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 33

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

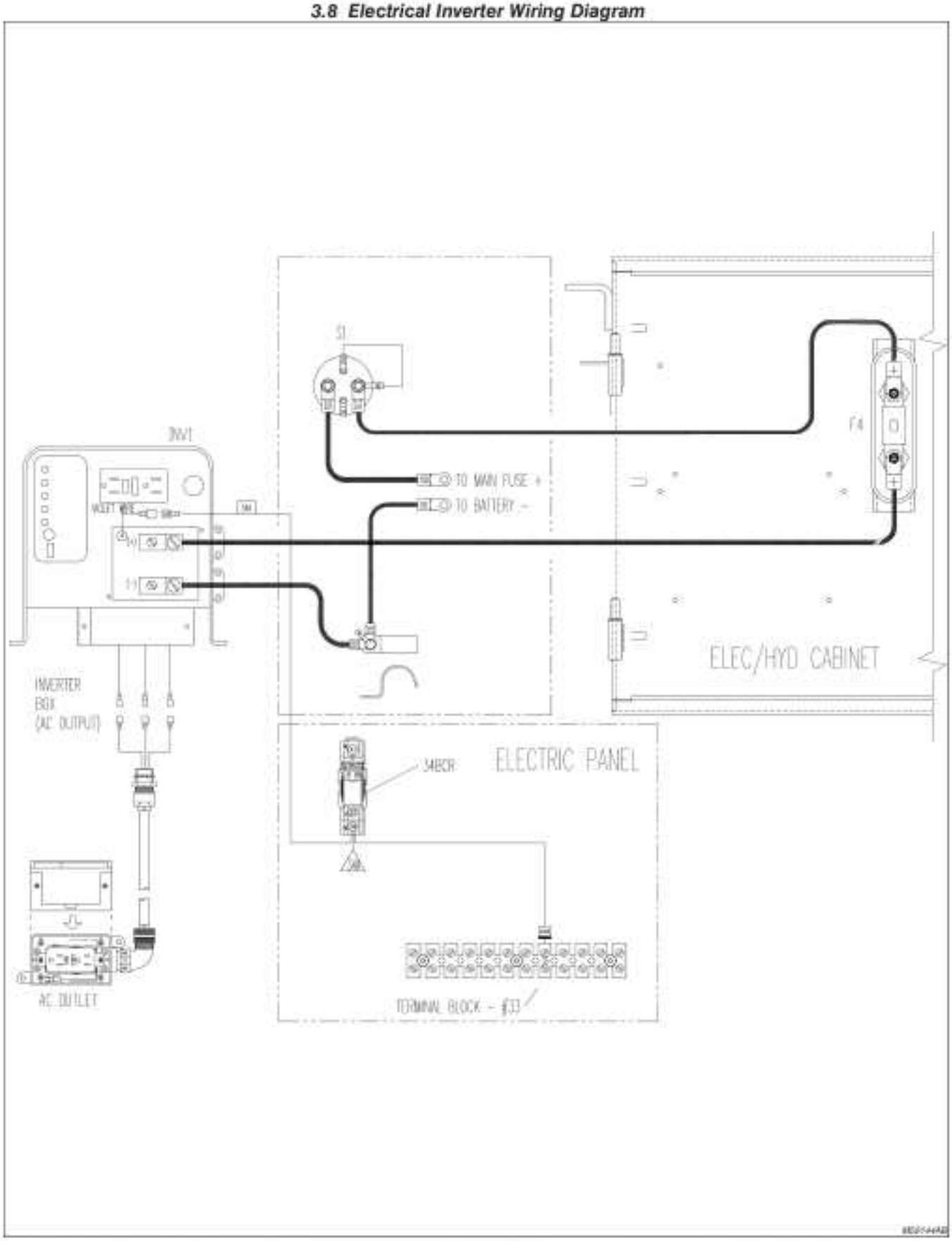
MODEL		Total		First Extension		Second Extension	
		Capacity	Number of Occupants	Capacity	Number of Occupants	Capacity	Number of Occupants
7127	One Extension Platform	1500 lb. 681 kg	5	500 lb. 227 kg	2	Not Available	
7135	One Extension Platform	900 lb. 408 kg	3	300 lb. 136 kg	1	Not Available	
8631	No 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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3.8 Electrical Inverter Wiring Diagram



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5.9-2 Auto-leveling outrigger setting and error codes

Read the codes

In order to read the fault codes, a sequence of pauses and flashes can be seen on the LED mounted on the outrigger control module. The codes are continuously displayed by the LED until the fault is cleared, the outrigger control module is reset and no longer detects the fault, or idle timeout becomes active.

The sequence is as follows:

1. Half second flashes followed by half second pauses indicate the first digit.
2. A 2.5 second pause.
3. Half second flashes followed by half second pauses indicate the second digit
4. A 5 second pause.

Repeat steps 1-4

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 error 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

AB

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

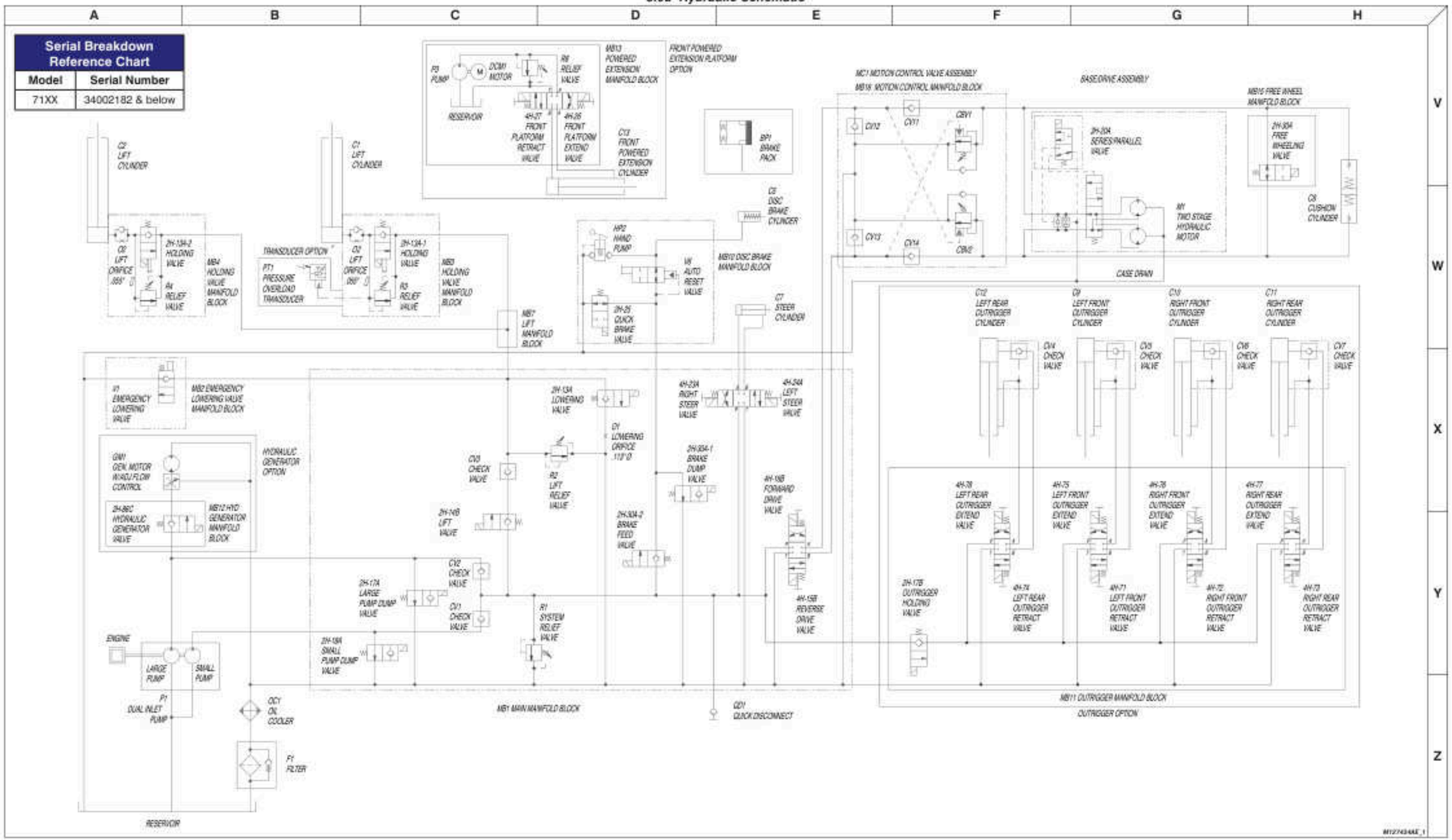
Table of Contents

Electrical System

4.1-1 All Controls Inoperative....90
4.1-2 No Power to Platform (ANSI/CSA)....90
4.1-3 All Functions Inoperative from Platform....90
4.1-4 Engine will Not Crank from Platform....91
4.1-5 Engine will Not Crank from Platform Controls (Additional for GM Dual Fuel)....91
4.1-6 Engine will Not Crank from Base Controls (GM dual fuel)....92
4.1-7 Engine will Not Crank from Base Controls (Kubota diesel)....92
4.1-8 Engine will Not Crank from Base Controls (Kubota dual fuel)....93
4.1-9 Engine Cranks but Stops Cranking after a few seconds....93
4.1-10 Glow Plugs Inoperative from Engine Controls....93
4.1-11 Glow Plugs Inoperative from Platform (Additional)....93
4.1-12 Engine Cranks but will Not Start (Kubota diesel)....94
4.1-13 Engine Cranks but will Not Start (Kubota dual fuel)....94
4.1-14 Engine Cranks but will Not Start (GM dual fuel)....95
4.1-15 Mid Throttle Inoperative (on demand) (GM Dual Fuel)....96
4.1-16 High Throttle on demand Inoperative (Kubota Dual Fuel)....97
4.1-17 High Throttle Inoperative....97
4.1-18 High Throttle Inoperative (additional for GM dual fuel)....98
4.1-19 Drive and Steer Inoperative (Machines without outriggers option)....98
4.1-20 Drive and Steer Inoperative (machines with outriggers option)....99
4.1-21 Brakes will Not Release....100
4.1-22 Steer Right Inoperative....100
4.1-23 Steer Left Inoperative....101
4.1-24 Reverse Drive Inoperative....101
4.1-25 Forward Drive Inoperative....102
4.1-26 First Drive Speed and Steering Inoperative....102
4.1-27 Second Drive Speed Inoperative....103
4.1-28 Third Drive Speed Inoperative....104
4.1-29 High/Low Range Speed Inoperative....104
4.1-30 Up Circuit Inoperative from Platform or Base (machines without outriggers)....105
4.1-31 Up Circuit Inoperative from Base (ANSI/CSA)....106
4.1-32 Platform will Not Lift from Platform or Base Controls with Outriggers Retracted....106
4.1-33 Platform will Not Lift from Platform or Base Controls with Outriggers Extended....107
4.1-34 Down Circuit Inoperative from Platform or Base....108
4.1-35 Down Circuit Inoperative from Base....109
4.1-36 Powered Extension Platform Inoperative....109
4.1-37 Powered Extension Platform will Not Extend....109
4.1-38 Powered Extension Platform will Not Retract....110
4.1-39 Hydraulic Generator Inoperative....110
4.1-40 Hydraulic Generator will Not Shut Off from Generator Switch....111
4.1-41 All Outriggers Inoperative (auto-level and manual)....111
4.1-42 All Outriggers Inoperative (auto-level and manual from platform controls)....112
4.1-43 All Outriggers Inoperative (base controls)....112
4.1-44 All Outriggers Inoperative (auto-level)
A: Led Power Indicator Light at Outrigger Control Module OCM1 Not On Constant....112

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Serial Breakdown Reference Chart	
Model	Serial Number
71XX	34002182 & below



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