MODELS | SJ9241 RT SJ9250 RT



Service Manual

Full-Size Rough Terrain Series

Part No. 143905AF August 28, 2025

SKYJACK

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Section 1
SCHEDULE MAINTENANCE

Table of Contents

Section 1 - Scheduled Maintenance

Operator's Responsibility for Maintenance

Aerial 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 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 30

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Table 2.2c Maximum Platform Capacities (Evenly Distributed) - CE

MODEL		Total		First Extension		Second Extension	
		Capacity	Number of Occupants	Capacity	Number of Occupants	Capacity	Number of Occupants
7127	One Extension Platform	681 kg	5	227 kg	2	Not Available	
7135	One Extension Platform	454 kg	4	159 kg	1	Not Available	
8831	No Extension Platform	1134 kg	6	Not Available			
	One Extension Platform	908 kg	6	227 kg	2	Not Available	
	Two Extension Platform	771 kg	6	227 kg	2	227 kg	2
8841	No Extension Platform	771 kg	5	Not Available			
	One Extension Platform	681 kg	5	227 kg	2	Not Available	
	Two Extension Platform	681 kg	5	227 kg	2	227 kg	2
9241	Two Extension Platform	681 kg	5	227 kg	2	227 kg	2
9250	Two Extension Platform	681 kg	5	227 kg	2	227 kg	2

93376AF-CE-R

NOTE:

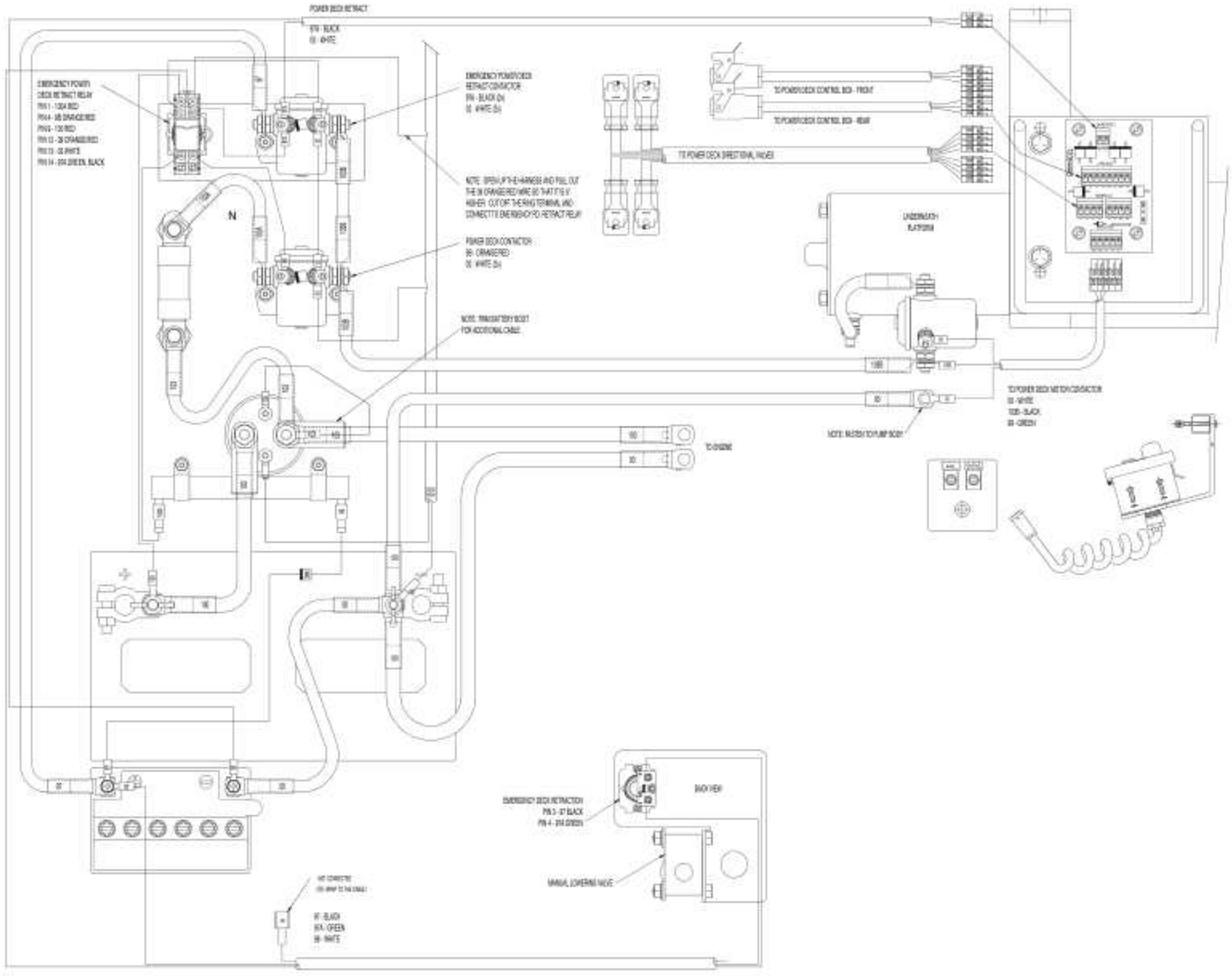
Occupants and materials are not to exceed rated load.
Capacities listed are for standard machines equipped with #6 tires except for models 9250 and 9241 which are equipped with foam-filled tires.
Refer to capacity label at sides of platform for additional information and for models equipped with options.

BEAUFORT SCALE	Wind Speed				Ground Conditions
	m/s	km/h	ft/s	mph	
3	3.4 – 5.4	12.5 – 19.4	11.5 – 17.75	5 – 12.0	Papers and thin branches move, flags wave
4	5.4 – 8.0	19.4 – 28.8	17.75 – 26.25	12.0 – 18	Dust is raised, paper whirls up, and small branches sway.
5	8.0 – 10.8	28.8 – 38.9	26.25 – 35.5	18 – 24.25	Shrubs with leaves start swaying. Wave crests are apparent in ponds or swamps.
6	10.8 – 13.9	38.9 – 50.0	35.5 – 45.5	24.5 – 31	Tree branches move. Power lines whistle. It is difficult to open an umbrella.
7	13.9 – 17.2	50.0 – 61.9	45.5 – 65.5	31 – 38.5	Whole trees sway. It is difficult to walk against the wind.

93336AC

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3.23 Emergency Lowering System - Electrical Wiring Diagram (CE) (Model 9241)



Full-Size Rough Terrain Series
Models 9241 & 9250
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Electrical System (Continued)

- Check continuity. Replace if defective.

6. Loose or broken wire #91A from relay 31ACR to engine glow plugs EGP1.
   - Check continuity. Replace if defective.
7. Defective glow plug relay 31ACR.
   - Check relay. Replace if defective.
8. Defective glow plugs.
   - Check glow plugs. Replace if defective.

4.1-11 Glow Plugs Inoperative from Platform (Additional)

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 glow plug relay 31ACR.
   - Check continuity. Replace if defective.
7. Defective relay 31CR.
   - Check relay. Replace if defective.

4.1-12 Engine Cranks but will Not Start (Kubota diesel)

1. Loose or broken wire #37 from base terminal block to diesel valve solenoid 2D37.
   - Check continuity. Replace if defective.
2. Loose or broken wire #57 from starter contactor 32ACR to diesel valve solenoid 2D37.
   - Check continuity. Replace if defective.
3. Defective fuel valve solenoid 2D37.
   - Check solenoid. Replace if defective.
4. Defective glow plug circuit.
   - See glow plugs inoperative above. Repair if necessary.

4.1-13 Engine Cranks but will Not Start (GM dual fuel)

NOTE

For additional engine troubleshooting refer to diagnostic trouble codes for use with the check engine light.

1. Loose or broken red wire from battery positive to relay 2002CR.
   - Check continuity. Replace if defective.
2. Loose or broken red/tan wire from ECU fuse F8 to relay 2002CR.
   - Check continuity. Replace if defective.
3. Loose or broken white/ light blue wire from ECU connector pin #71 to relay 2002CR.
   - Check continuity. Replace if defective.
4. Defective relay 2002CR.
   - Check relay. Replace if defective.
5. Loose or broken pink/dark green wire from relay 2002CR to ignition fuse F10.
   - Check continuity. Replace if defective

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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.

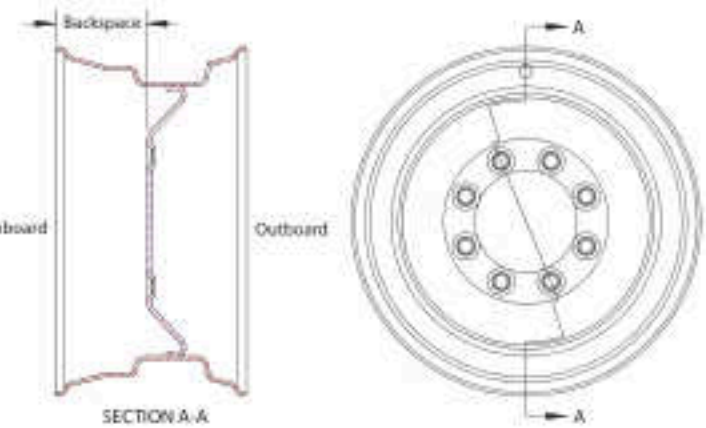
Tire Size		Fill Specification			Usage†						
					MID SIZE				FULL SIZE		
		Fill Type	Ply Rating	Pressure (Factory) (kPa)	7127	7135	8243	8850	8831	8841	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	75* (517.1)*	S	S	S	N/A	S	S	S
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	75* (517.1)*	O	O	O	N/A	O	O	O
#7A	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

6337BAC-ANSI-R

* 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"						

6338AC-ANSI

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Section 3
SYSTEM COMPONENT IDENTIFICATION AND SCHEMATICS

Table of Contents

Section 3 - System Component Identification and Schematics

Charts

3.1 Hydraulic Symbol Chart 61
3.2 Electrical Symbol Chart 62
3.3 Wire Number and Color Code 63
3.4 Hydraulic Component Parts List 64

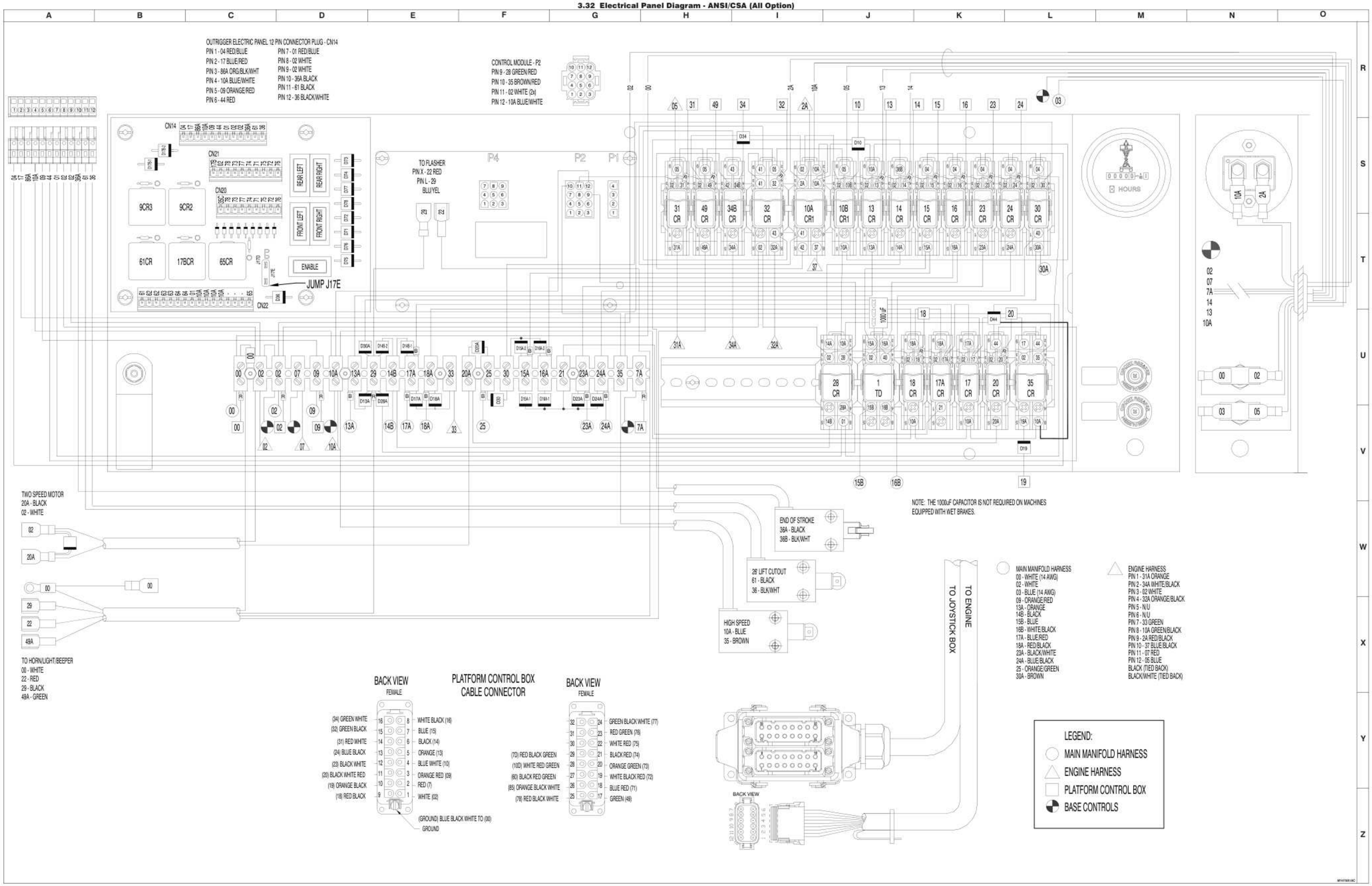
Parts List

3.5 Electrical Component Parts List 67
3.6 Platform Control Console Wiring - All Options (ANSI/CSA) 74

Diagrams and Schematics

3.7 Platform Control Console Wiring - All Options (CE) 75
3.8 Control Cable Assemblies Diagram 76
3.9 Outrigger & Hydraulic Generator Control Console Wiring 77
3.10 Base Control Console Wiring (ANSI/CSA) 78
3.11 Base Control Console Wiring (CE) 79
3.12 Hydraulic Schematic (Cushman Axles) (Model 9241) 80
3.13 Hydraulic Schematic (Cushman Axles) (Model 9250) 81
3.14 Hydraulic Schematic (Dana Axles) 82
3.15 Hydraulic Manifold Components & Port Identifications 83
3.16 Main Manifold Wiring Diagram 84
3.17 Oil Cooler - Electrical Panel Diagram (ANSI/CSA Dual Fuel Engine) 85
3.18 Hydraulic Generator - Electrical Panel Diagram (ANSI/CSA Dual Fuel Engine) 86
3.19 Hydraulic Generator - Electrical Panel Diagram (ANSI/CSA Diesel Engine) 87
3.20 Hydraulic Generator - Electrical Panel Diagram (CE) 88
3.21 Emergency Lowering System - Wiring Diagram (ANSI/CSA) (Model 9250) 89
3.22 Emergency Lowering System - Wiring Diagram (CE) (Model 9250) 90
3.23 Emergency Lowering System - Electrical Wiring Diagram (CE) (Model 9241) 91
3.24 AutoLeveling Outrigger Connection Diagram 92
3.25 Powered Extension Platform - Electrical Wiring Diagram (Model 9250) 93
3.26 Horn, Light & Beeper Wiring Diagram (ANSI/CSA) (Model 9250) 94
3.27 Horn, Light, Beeper & Load Sensing Wiring Diagram 95
3.28 Electrical Inverter Wiring Diagram 96
3.29 Flashing Light Relay Harness 97
3.30 Engine Wiring Diagram - Kubota Diesel Engine 39
3.31 Engine Harnesses - GM Dual Fuel Engine 40
3.32 Electrical Panel Diagram - ANSI/CSA (All Option) 41
3.33 Electrical Panel Diagram - CE (All Option) 42
3.34 Electrical Schematic - ANSI/CSA & AS (All Option with Kubota Diesel Engine) 43
3.35 Electrical Schematic - CE (All Option with Kubota Diesel Engine) 44
3.36 Electrical Schematic - ANSI/CSA & AS (All Options with GM Dual Fuel Engine) 45
3.37 Electrical Schematic - ANSI/CSA & AS (No Options with GM Dual Fuel Engine) 46
3.38 Interface & Engine Electrical Schematic - GM Dual Fuel Engine 47

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OUTRIGGER ELECTRIC PANEL 12 PIN CONNECTOR PLUG - CN14
PIN 1 - 04 RED/BLUE
PIN 2 - 17 BLUE/RED
PIN 3 - 86A ORG/BLK/WHT
PIN 4 - 10A BLUE/WHITE
PIN 5 - 09 ORANGE/RED
PIN 6 - 44 RED
PIN 7 - 01 RED/BLUE
PIN 8 - 02 WHITE
PIN 9 - 02 WHITE
PIN 10 - 36A BLACK
PIN 11 - 61 BLACK
PIN 12 - 36 BLACK/WHITE
CONTROL MODULE - P2
PIN 9 - 28 GREEN/RED
PIN 10 - 35 BROWN/RED
PIN 11 - 02 WHITE (2x)
PIN 12 - 10A BLUE/WHITE
CN14
CN21
CN20
CN22
9CR3
9CR2
61CR
17BCR
65CR
REAR LEFT
REAR RIGHT
FRONT LEFT
FRONT RIGHT
ENABLE
JUMP J17E
TO FLASHER
PIN X - 22 RED
PIN L - 29
BLU/YEL
P4
P2
P1
31 CR
49 CR
34B CR
32 CR
10A CR1
10B CR1
13 CR
14 CR
15 CR
16 CR
23 CR
24 CR
30 CR
28 CR
1 TD
18 CR
17A CR
17 CR
20 CR
35 CR
HOURS
1000 µF
TWO SPEED MOTOR
20A - BLACK
02 - WHITE
TO HORN/LIGHT/BEEPER
00 - WHITE
22 - RED
29 - BLACK
49A - GREEN
END OF STROKE
36A - BLACK
36B - BLK/WHT
28 LIFT CUTOUT
61 - BLACK
36 - BLK/WHT
HIGH SPEED
10A - BLUE
35 - BROWN
NOTE: THE 1000µF CAPACITOR IS NOT REQUIRED ON MACHINES EQUIPPED WITH WET BRAKES.
TO JOYSTICK BOX
TO ENGINE
BACK VIEW
FEMALE
PLATFORM CONTROL BOX
CABLE CONNECTOR
(34) GREEN WHITE
(32) GREEN BLACK
(31) RED WHITE
(24) BLUE BLACK
(23) BLACK WHITE
(20) BLACK WHITE RED
(19) ORANGE BLACK
(18) RED BLACK
WHITE BLACK (16)
BLUE (15)
BLACK (14)
ORANGE (13)
BLUE WHITE (10)
ORANGE RED (09)
RED (7)
WHITE (02)
(GROUND) BLUE BLACK WHITE TO (00)
GROUND
(7D) RED BLACK GREEN
(10D) WHITE RED GREEN
(6D) BLACK RED GREEN
(8S) ORANGE BLACK WHITE
(7B) RED BLACK WHITE
GREEN BLACK WHITE (77)
RED GREEN (76)
WHITE RED (75)
BLACK RED (74)
ORANGE GREEN (73)
WHITE BLACK RED (72)
BLUE RED (71)
GREEN (49)
MAIN MANIFOLD HARNESS
00 - WHITE (14 AWG)
02 - WHITE
03 - BLUE (14 AWG)
09 - ORANGE/RED
13A - ORANGE
14B - BLACK
15B - BLUE
16B - WHITE/BLACK
17A - BLUE/RED
18A - RED/BLACK
23A - BLACK/WHITE
24A - BLUE/BLACK
25 - ORANGE/GREEN
30A - BROWN
ENGINE HARNESS
PIN 1 - 31A ORANGE
PIN 2 - 34A WHITE/BLACK
PIN 3 - 02 WHITE
PIN 4 - 32A ORANGE/BLACK
PIN 5 - N/U
PIN 6 - N/U
PIN 7 - 33 GREEN
PIN 8 - 10A GREEN/BLACK
PIN 9 - 2A RED/BLACK
PIN 10 - 37 BLUE/BLACK
PIN 11 - 07 RED
PIN 12 - 05 BLUE
BLACK (TIED BACK)
BLACK/WHITE (TIED BACK)
LEGEND:
MAIN MANIFOLD HARNESS
ENGINE HARNESS
PLATFORM CONTROL BOX
BASE CONTROLS