MODELS | SJ8831 RT SJ8841 RT



Service Manual

Full-Size Rough Terrain Series

Part No. 143903AF August 28, 2025

SKYJACK

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SCHEDULED MAINTENANCE

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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

603NAF.CE.R

NOTE

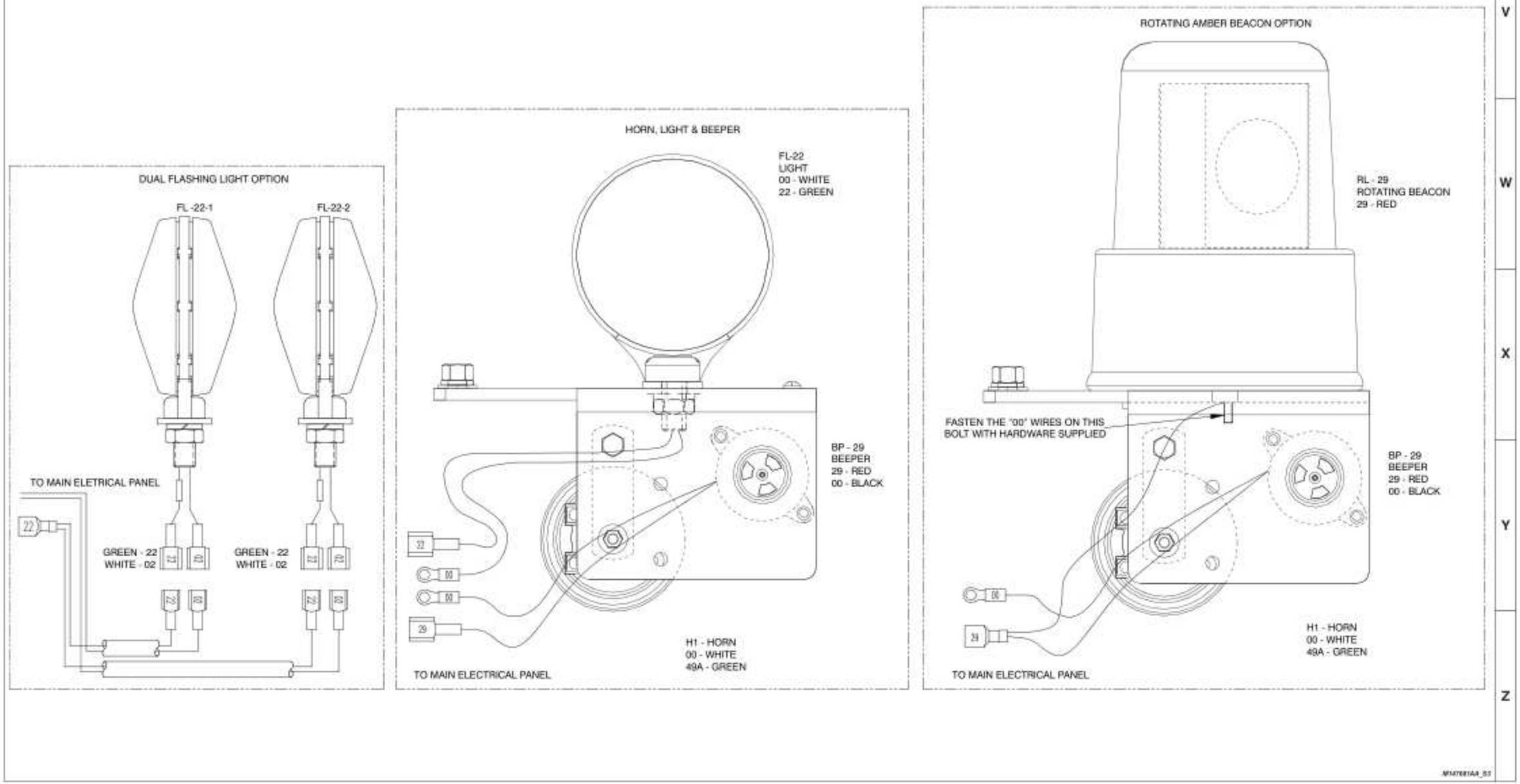
Occupants and materials are not to exceed rated load.
Capacities listed are for standard machines equipped with #6 tires except for models 9250 and 9241 which are equipped with foam-filled tires.
Refer to capacity label at sides of platform for additional information and for models equipped with options.

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.

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3.14 Horn, Light, Beeper Wiring Diagram (ANSI/CSA and AS)



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Electrical System (Continued)

4.1-45 All Outriggers Inoperative (Auto Level Only)
B: Led Power Indicator Light at Outrigger Control Module (OCM1) Flashing

Flash Code	Probable Cause	Remedy
1/1	1. Outriggers are all up and machine is tilted.	1. Level the machine.
1/2	1. Machine is elevated. 2. Loose or broken wire # 35.	1. Lower the scissor stack below high speed limit switch. 2. Check for input voltage on wire #35 at pin P2-10 of the outrigger control module (OMC1). Replace if defective.
2/2	1. At least one outrigger is not fully retracted. 2. Defective outrigger rod limit switch (LS61, LS62, LS63, LS64) or wiring. 3. Defective diode (D36) on outrigger board.	1. Fully retract all outriggers. 2. Replace defective or damaged switch(es) or wiring. 3. Check for continuity. Replace if defective.
2/1	1. Outriggers are all down and the machine is not fully level.	1. Move machine to less sloped terrain if it will not lift.
5/5	1. Power on wire #70 or #79 at power on. 2. Power on wire #70 or #79 when manually operating outriggers.	1. Check for power on wire #70 or #79 at pin P2-5 or P2-6 of the outrigger control module. Replace defective component. 2. Check for power on wire #70 or #79 while manually operating an outrigger.
5/2	1. Low or no voltage on wire #35c. 2. Loose or broken wire on #35c.	1. Check battery and charging system to ensure minimum 9 volts. 2. Check for input voltage on wire #35c at pin P4-9 of outrigger control module (OCM1).
7/1	1. Excessive vibration. 2. Defective outrigger control module.	1. Outrigger control module cannot read tilt sensor. 2. Replace.
6/6	1. Outriggers are being manually controlled.	1. Indicates function activated. No repair necessary.
7/8	1. Error occured while self diagnosing the hardware fail safe.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
5/1	1. Low input voltage to outrigger control module.	1. Check for minimum 9 volts between wire #02 at pin P2-11 and wire #10A at pin P2-12 at outrigger control module.
7/7	1. Startup error occurred while self diagnosing.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
7/5	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
7/2	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/1	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/2	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/3	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/4	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/5	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
7/6	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.

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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.

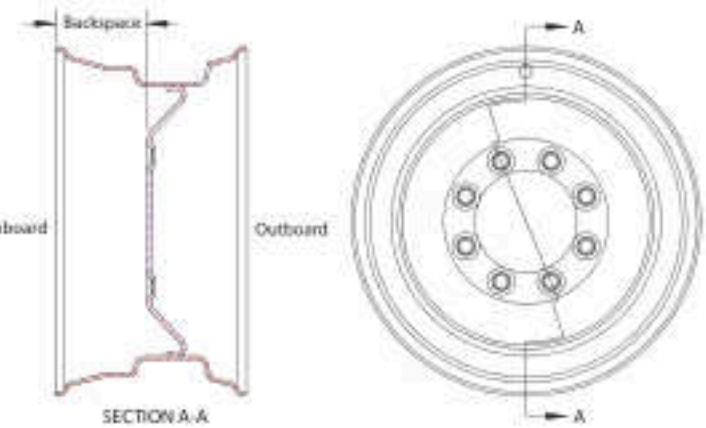
Tire Size		Fill Specification			Usage†						
					MID SIZE				FULL SIZE		
		Fill Type	Ply Rating	Pressure (Factory) (kPa)	7127	7135	8243	8850	8831	8841	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	75* (517.1)*	S	S	S	N/A	S	S	S
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	75* (517.1)*	O	O	O	N/A	O	O	O
#7A	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 4
TROUBLESHOOTING INFORMATION

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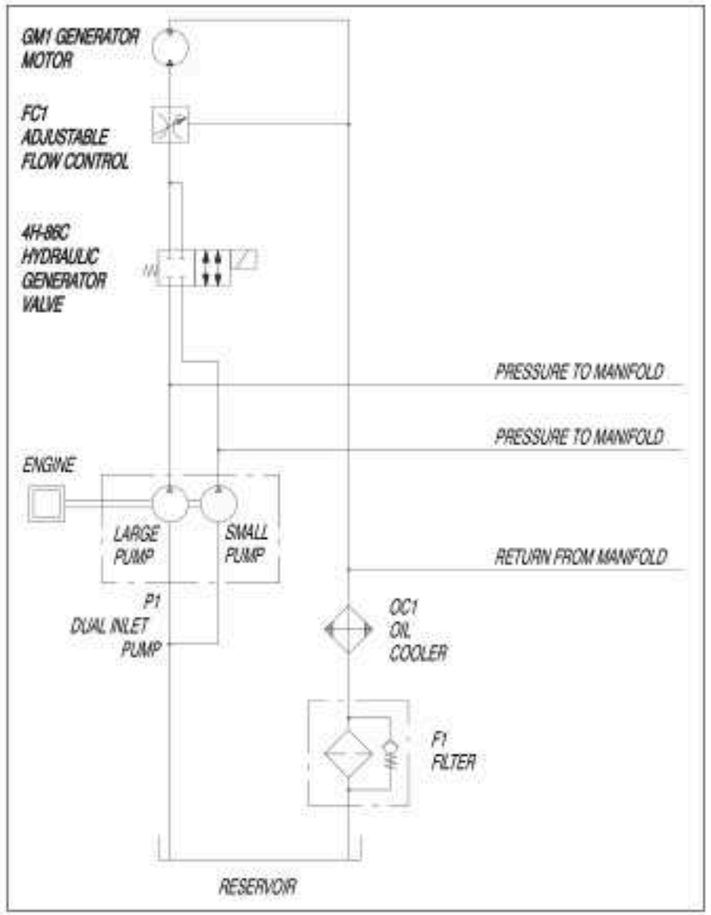
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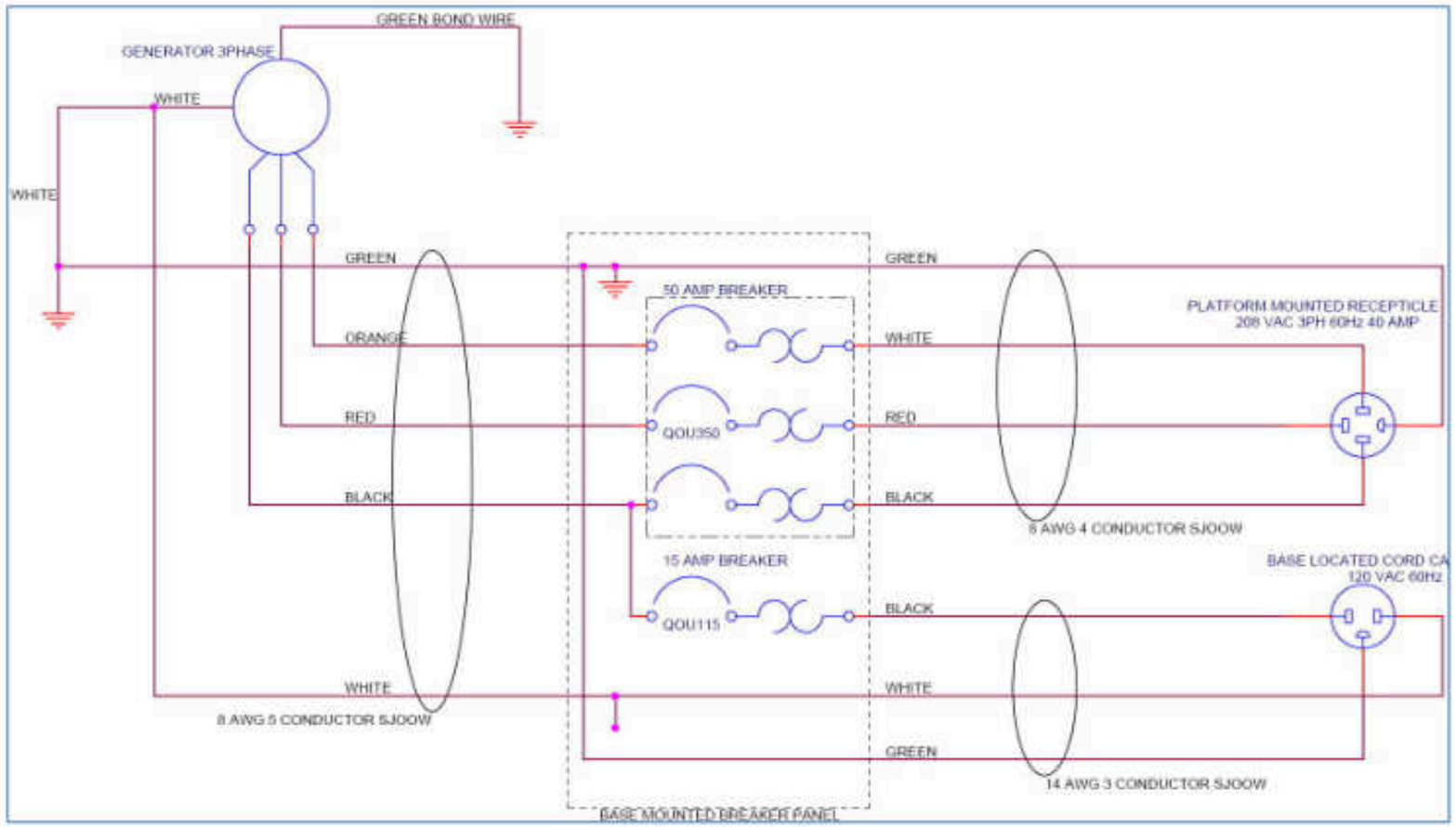
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ELECTRIC WIRING SCHEMATIC

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