SKYJACK™

OPERATING MAINTENANCE & PARTS MANUAL



SJ-600 Series

Engine Powered

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⚠ WARNING

ANSI/SIA (United States)
You are required by the current ANSI/SIA A92.6 standards to read and understand YOUR RESPONSIBILITIES in the Manual Of Responsibilities before you use or operate this work platform.

CSA (Canada) and CE (Europe)
You are required to conform to national health and safety regulations applicable to the operation of this elevating work platform.

FAILURE TO COMPLY with your REQUIRED RESPONSIBILITIES in the use and operation of the work platform could result in DEATH OR SERIOUS INJURY!

OPERATOR SAFETY REMINDERS
The National Safety Council reminds us that most accidents are caused by the failure of some individuals to follow simple and fundamental safety rules and precautions. Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this work platform is mandatory. The following pages of this manual should be read and understood completely before operating the work platform. Any modifications from the original design are strictly forbidden without written permission from SKYJACK, Inc.

⚠ DANGER

ELECTROCUTION HAZARD

THIS MACHINE IS NOT INSULATED. MAINTAIN SAFE CLEARANCES FROM ELECTRICAL POWER LINES AND APPARATUS. YOU MUST ALLOW FOR PLATFORM SWAY, ROCK OR SAG. THIS WORK PLATFORM DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.

Minimum Safe Approach Distance

ANSI/SIA A92.6-1999 & CSA CAN3-B354.2&.3-M82 Requirements			**CE Guidance Note** "Avoidance of danger from Overhead Lines"
Voltage Range	Minimum Safe Approach Distance		
(Phase to Phase)	Feet	Meters	
0 To 300V	Avoid Contact		These machines should not operate within 15M of overhead lines suspended from steel towers. These machines should not operate within 9M of overhead lines suspended from wooden poles.
Over 300V to 50KV	10	3.05	
Over 50KV to 200KV	15	4.60	
Over 200KV to 350KV	20	6.10	
Over 350KV to 500KV	25	7.62	
Over 500KV to 750KV	35	10.67	
Over 750KV to 1000KV	45	13.72	

FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!

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Figure 3.8-2. Electrical Schematic - ANSI/CSA - Kubota Dual Fuel - All Options

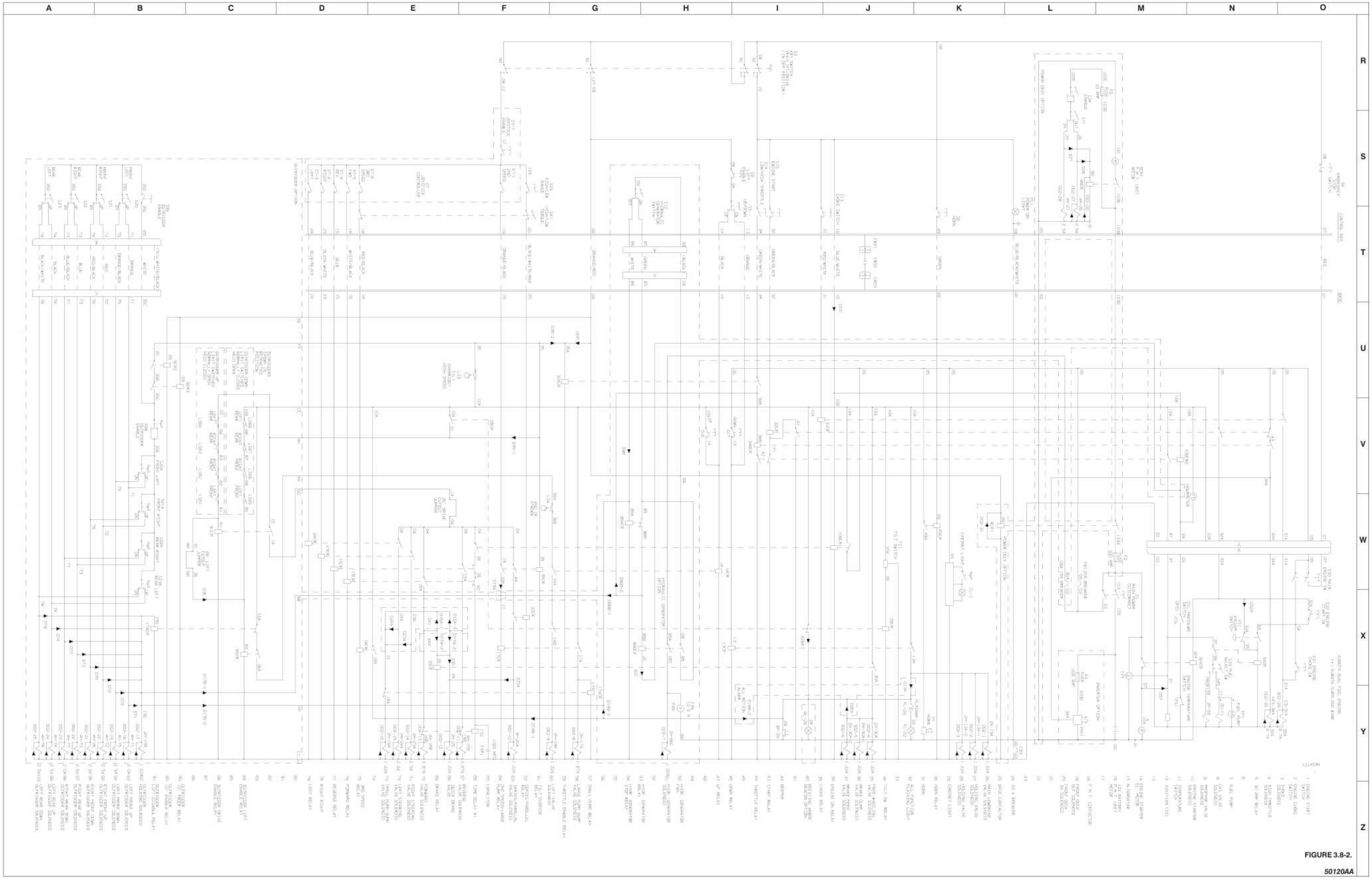


FIGURE 3.8-2.

50120AA

NOTE: To determine the correct electrical schematic that resembles your machine, refer to the "Table Of Contents" found at the beginning of this section.

Troubleshooting Information - Electrical System

Probable Cause	Remedy
4.1-26. Up Circuit Inoperative From Platform Or Base (Machines Without Outriggers)	
1. Lift/off/drive switch (S3) in drive position or defective.	1. Select lift position. Check switch. Replace if defective.
2. Loose or broken wire #09 from off/lift/drive switch (S3) to lift enable switch (S9).	2. Check continuity. Replace if defective.
3. Defective lift enable switch (S9).	3. Check switch. Replace if defective.
4. Loose or broken wire #9A from lift enable switch (S9) to up/off/down switch (S5).	4. Check continuity. Replace if defective.
5. Defective up/off/down switch (S5).	5. Check switch. Replace if defective.
6. Loose or broken wire #14 from up/off/down switch (S5) to diode (D14). (CE Only)	6. Check continuity. Replace if defective.
7. Diode (D14) open. (CE Only)	7. Check diode. Replace if defective.
8. Loose or broken wire #14 from diode (D14) to base terminal block. (CE Only)	8. Check continuity. Replace if defective.
9. Loose or broken wire #14 from base terminal block to relay (14CR).	9. Check continuity. Replace if defective.
10. Loose or broken wire #02 from relay (14CR) to base terminal block.	10. Check continuity. Replace if defective.
11. Defective relay (14CR).	11. Check relay. Replace if defective.
12. Loose or broken wire #10A from terminal block (TB1) to terminal block (TB2).	12. Check continuity. Replace if defective.
13. Loose or broken jumper wire from #10A to #36A on terminal block (TB2).	13. Check continuity. Replace if defective.
14. Loose or broken wire #36A from terminal block (TB2) to end of stroke limit switch (LS4).	14. Check continuity. Replace if defective.
15. Defective end of stroke limit switch (LS4).	15. Check switch. Replace if defective.
16. Loose or broken wire #36B from end of stroke limit switch (LS4) to terminal block (TB2).	16. Check continuity. Replace if defective.
17. Loose or broken wire #36B from terminal block (TB2) relay (14CR)	17. Check continuity. Replace if defective.
18. Loose or broken wire #14A from relay (14CR) to relay (28CR).	18. Check continuity. Replace if defective.
19. Loose or broken wire #14B from relay (28CR) to base terminal block.	19. Check continuity. Replace if defective.
20. Loose or broken wire #14B from base terminal block to lift valve solenoid (2H14B).	20. Check continuity. Replace if defective.
21. Loose or broken wire #02 from lift valve solenoid (2H14B) to base terminal block.	21. Check continuity. Replace if defective.
22. Defective lift valve solenoid (2H14B).	22. Check solenoid. Replace if defective.
4.1-27. Up Circuit Inoperative From Base	
1. Loose or broken wire #10A from base terminal block to base up switch (S16)	1. Check continuity. Replace if defective.
2. Loose or broken wire #14 from base up switch (S16) to base terminal block.	2. Check continuity. Replace if defective.
3. Defective base up switch (S16).	3. Check switch. Replace if defective.

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Table 5-2. Tire Specifications

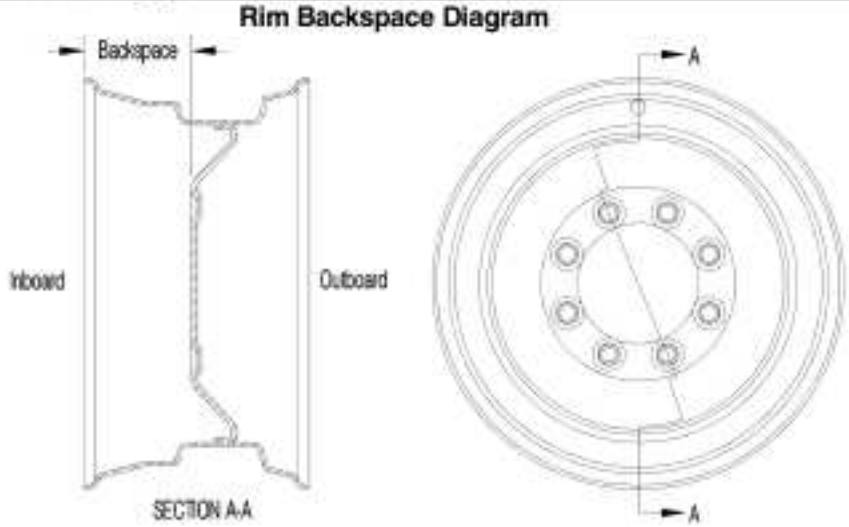
⚠ WARNING

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 in the operating conditions experienced 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, re-inflate to the pressure specified. Tires shall also not be subject to over-inflation above the recommended specification and tolerance range.

Tire		Fill Specification				Usage†			
Size		Fill Type	Ply Rating	Pressure Psi (kPa)		600 Series			
				Factory	Listed Sidewall Maximum	7027	7027F	7135	7135F
#6	30-10-16.5 NHS	Air	8	50* (344.7)*	65 (448.2)	S			
#6	30-10-16.5 OTR Outrigger		10	75* (517.1)*	75 (517.1)			S	
#7	31-15.5-15 NHS		8	45* (310.3)*	Not Available	O		O	
#6F	30-10-16.5 NHS	Solid Urethane	8	**			S		S††
#7F	31-15.5-15 NHS		8	**			O		O

* Factory preset @ 20°C, Check pressures regularly as tires can lose pressure over time and over different ambient temperatures even under normal conditions.
** Urethane used for filling #6F and #7F tires MUST be 55 durometer.
† Usage: (S)tandard Or (O)ptional
†† #6 foam tire is 30-10-16.5 OTR Outrigger

Rim Backspace Diagram



Rim Size	Backspace inches(mm)	
	7027	7135
#6 & #6F	4-¾" (121)	3-¾" (95)
#7 & #7F	All models are 5-⅜" (135)	

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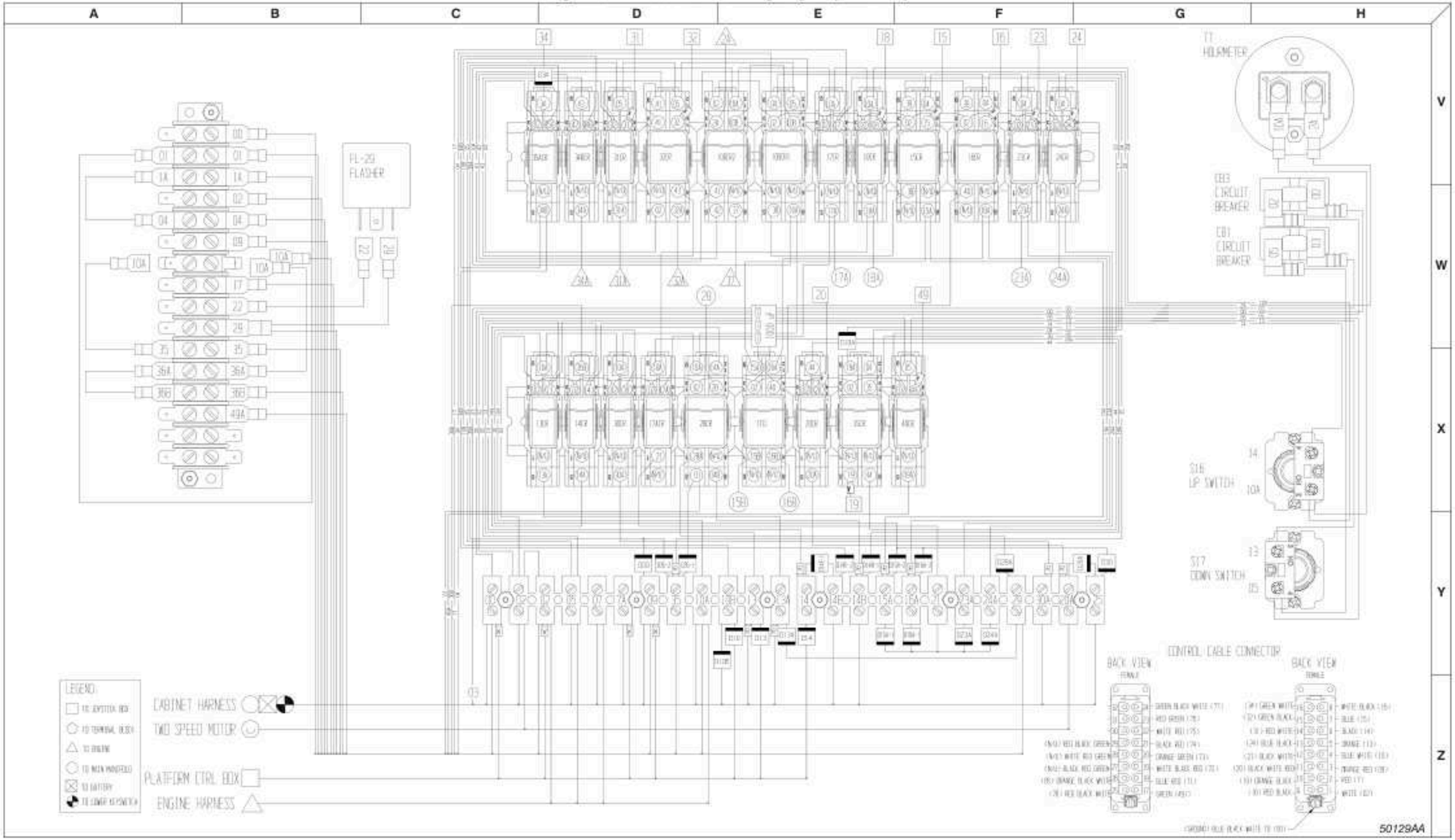
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F3igure 3.7-2. Electrical Panel Wiring Diagram (CE Models)



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