SKYJACK

MAINTENANCE & PARTS MANUAL

SJ-600 Series

Engine Powered



Models: ROUGH TERRAIN SERIES

7127 & 7135

8243 & 8850

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Table 2.3b Tire Specifications - CE

⚠ 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.

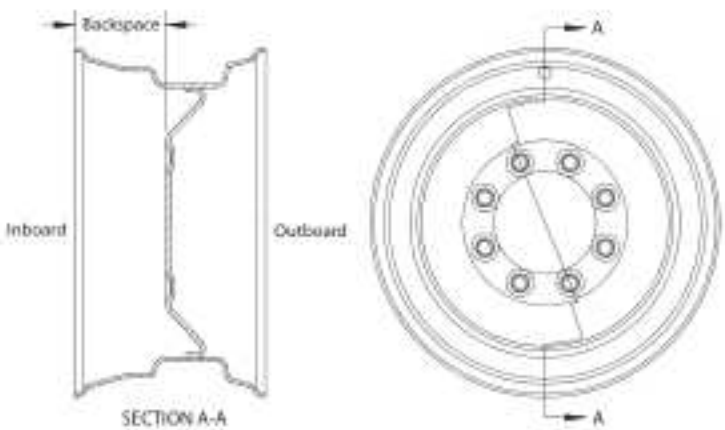
Tire Size		Fill Specification			Usage†					
		Fill Type	Ply Rating	Pressure (Factory) (kPa)	MID SIZE		FULL SIZE			
					7127	7135	8831	8841	9241	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	517.1*	S	S	S	S	N/A	N/A
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	517.1*	O	O	O	O	N/A	N/A
#7A	31-15.5-15 GOODYEAR TERRA XTRAC		8	310.3*	N/A	N/A	N/A	N/A	N/A	N/A
#6F	10-16.5 CARLISLE US LOADER	Foam	10	N/A	O	O	O	O	S	S
#6F	10-16.5 OTR OUTRIGGER (Non-Marking)		10	N/A	O	O	O	O	N/A	N/A
#7F	31-15.5-15 GOODYEAR TERRA XTRAC		8	N/A	O	O	O	O	N/A	N/A

60378AF-CE-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

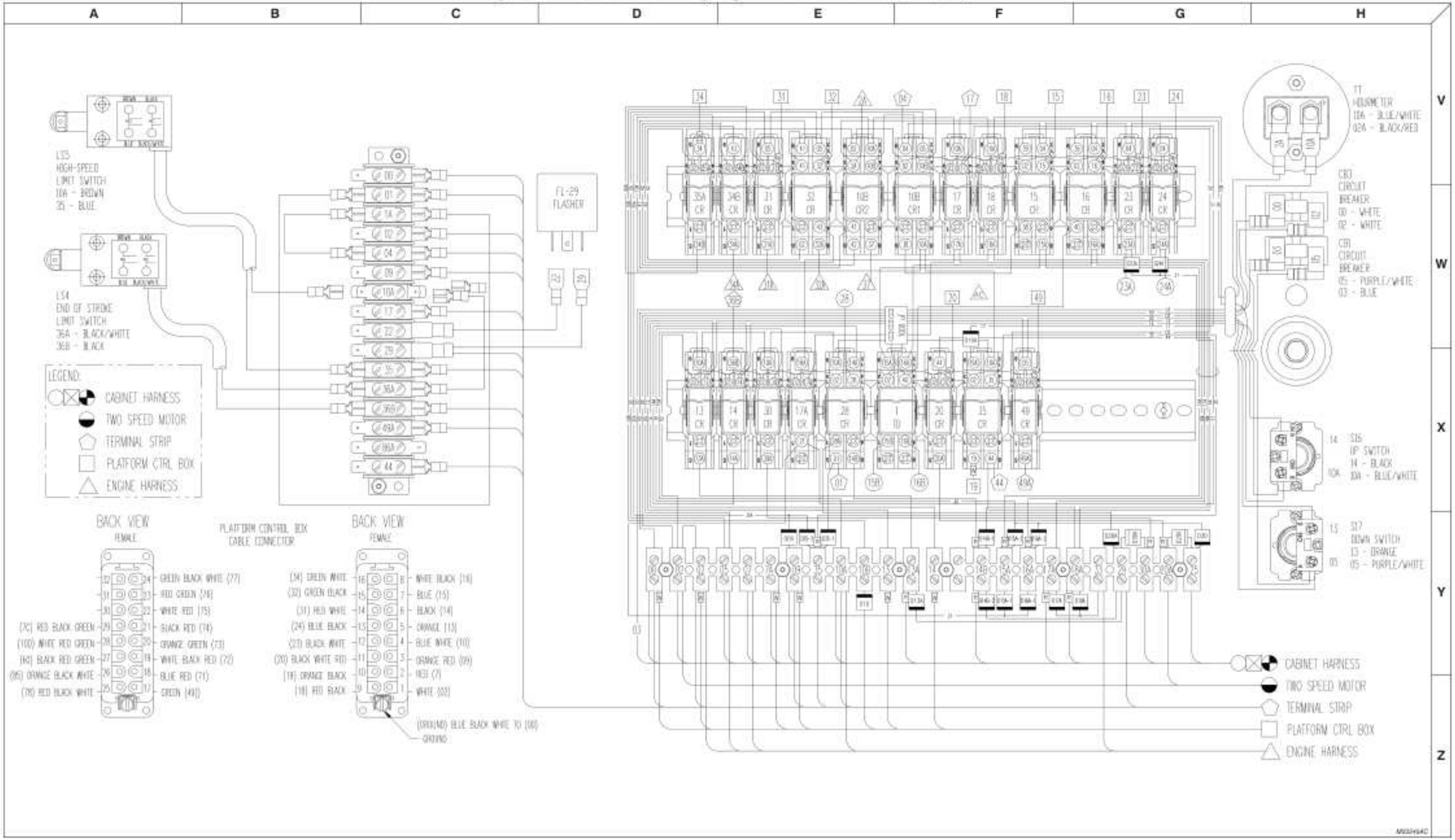


Rim Size	Backspace					
	7127	7135	8831	8841	9241	9250
#6 & #6F	95 mm	95 mm	121 mm	121 mm	95 mm	95 mm
#7 & #7F	All models are 135 mm				N/A	

60380AE-CE-R

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Figure 3.4-1. Electrical Panel Wiring Diagram - Model 7127 & 7135 (ANSI/CSA)



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-Check solenoid. Replace if defective.

18. Loose or broken battery cable from starter solenoid (32BCR) to starter motor.
    -Check continuity. Replace if defective.
19. Defective starter motor.
    -Check motor. Repair or replace if defective.

4.1-9. Engine Will Not Crank From Engine Controls (Kubota Diesel)

1. Loose or broken wire #05 from base terminal block to base engine switch (S30).
   -Check continuity. Replace if defective.
2. Loose or broken wire #05A from base engine switch (S30) to engine start switch (S32).
   -Check continuity. Replace if defective.
3. Defective engine start switch (S32).
   -Check switch. Replace if defective.
4. Loose or broken wire #32A from engine start switch (S32) to starter contactor (32ACR).
   -Check continuity. Replace if defective.
5. Loose or broken wire #00 from starter contactor (32ACR) to base.
   -Check continuity. Replace if defective.
6. Defective starter contactor (32ACR).
   -Check contactor. Replace if defective.
7. Loose or broken wire #100 from main power disconnect switch (S1) to starter contactor (32ACR).
   -Check continuity. Replace if defective.
8. Loose or broken wire #104 from starter contactor (32ACR) to starter motor.
   -Check continuity. Replace if defective.
9. Defective starter motor.
   -Check motor. Repair or replace if defective.

4.1-10. Engine Will Not Crank From Engine Controls (Nissan Dual Fuel & Kubota Dual Fuel)

NOTE
For further information on Nissan Dual Fuel Troubleshooting, refer to Section 4, EMS Troubleshooting.

1. Loose or broken wire #05 from base terminal block to base engine switch (S30).
   -Check continuity. Replace if defective.
2. Loose or broken wire #7 on base engine switch (S30).
   -Check continuity. Replace if defective.
3. Defective base engine switch (S30).
   -Check switch. Replace if defective.
4. Loose or broken wire #32A from base engine switch (S30) to starter contactor (32ACR).
   -Check continuity. Replace if defective.
5. Loose or broken wire #00 from starter contactor (32ACR) to base.
   -Check continuity. Replace if defective.
6. Defective starter contactor (32ACR).
   -Check contactor. Replace if defective.
7. Loose or broken wire #100 from main power disconnect switch (S1) to starter contactor (32ACR).
   -Check continuity. Replace if defective.
8. Loose or broken wire #104 from starter contactor (32ACR) to starter motor.
   -Check continuity. Replace if defective.
9. Defective starter motor.
   -Check motor. Repair or replace if defective.

4.1-11. Engine Cranks But Will Not Start (Kubota Diesel)

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Table 5-2 Torque Specifications

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

Coils	
Torque	Size
	All coils
Lbf.ft (max)	4 to 5
Lbf.in (max)	48 to 60
Nm (max)	5.42 to 6.78

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

Type of Bolt	Torque (ft-lb)	Torque (Nm)
Directional valve mounting bolts	2.33 (28-32 in-lb)	3.16 - 3.61

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Table 2.3c Tire Specifications - AS

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.

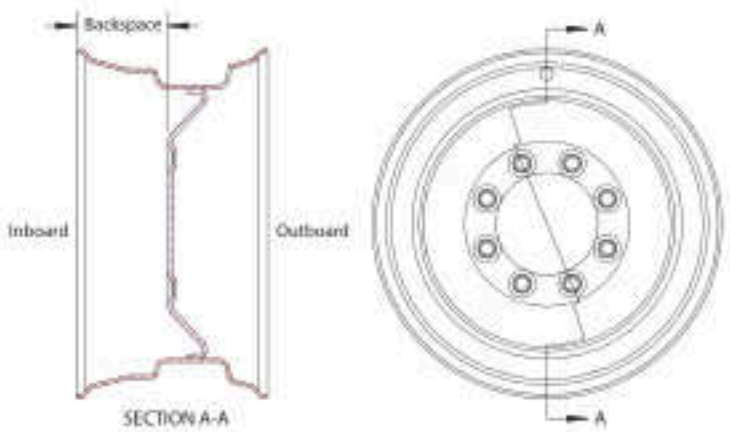
Tire Size		Fill Specification			Usage†						
		Fill Type	Ply Rating	Pressure (Factory)	MID SIZE				FULL SIZE		
				Psi (kPa)	7127	7135	8243	8850	8831	8841	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	75* (517.1)*	O	O	O	O	O	O	O
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	75* (517.1)*	O	O	O	O	O	O	O
#6F	10-16.5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

60378AE-AS

* 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

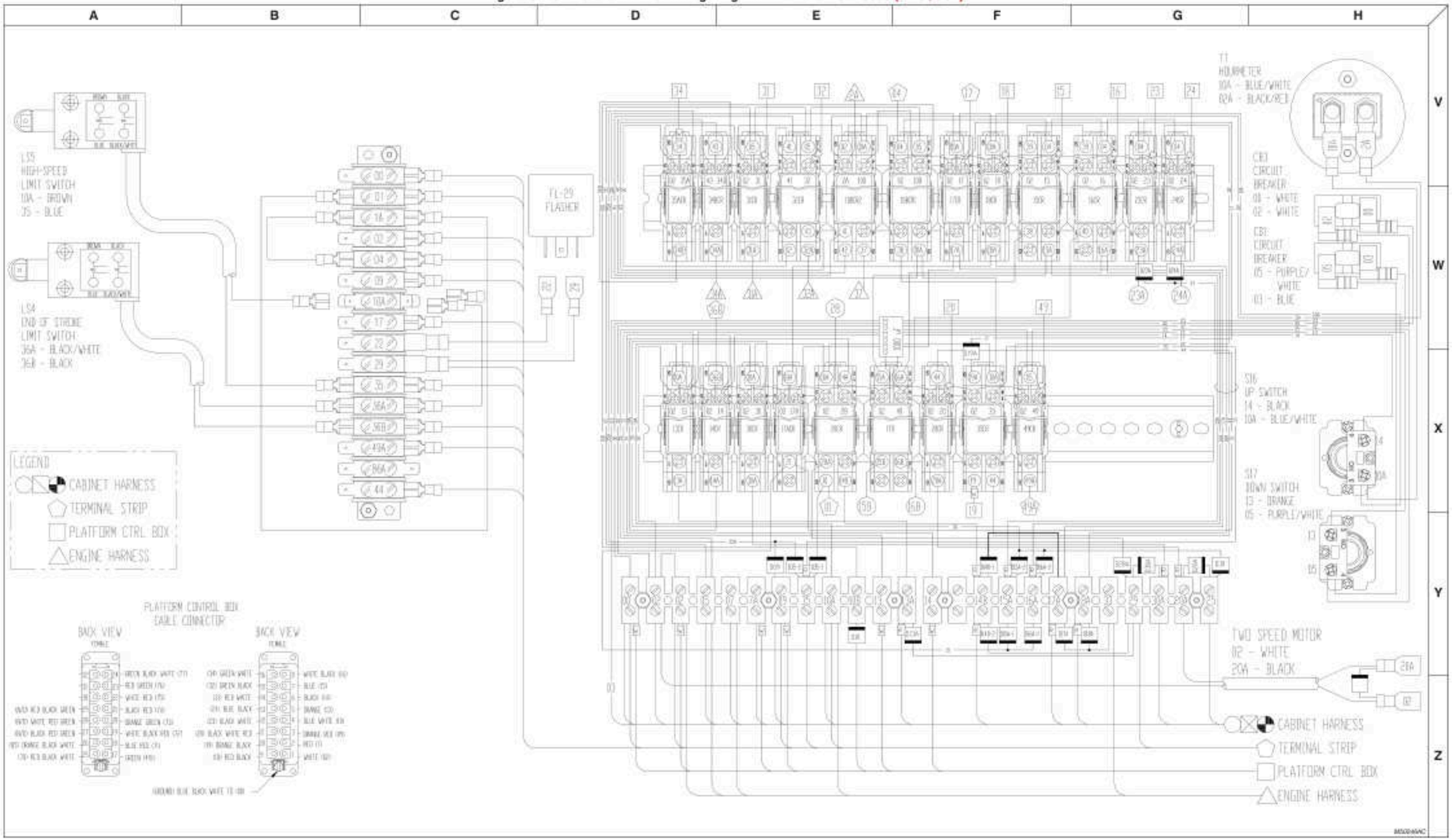


Rim Size	Backspace							
	7127		7135	8243	8850	8831	8841	9250
Serial Number	Contact Skyjack Service Department							
#6A & #6F	121mm	95 mm	95 mm	95 mm	95 mm	121mm	121mm	95 mm
	4.75 in.	3.75 in.	3.75 in.	3.75 in.	3.75 in.	4.75 in.	4.75 in.	3.75 in.

60380AE-AS

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Figure 3.4-3. Electrical Panel Wiring Diagram - Model 8243 & 8850 (ANSI/CSA)



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