

SERVICE MANUAL (ALL STANDARDS)

VERTICAL MAST

MODELS SJ12 SJ16

157981AG January 2023

SKYJACK

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Section 1
SCHEDULED MAINTENANCE

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Table 2.2d Specifications and Features - AS

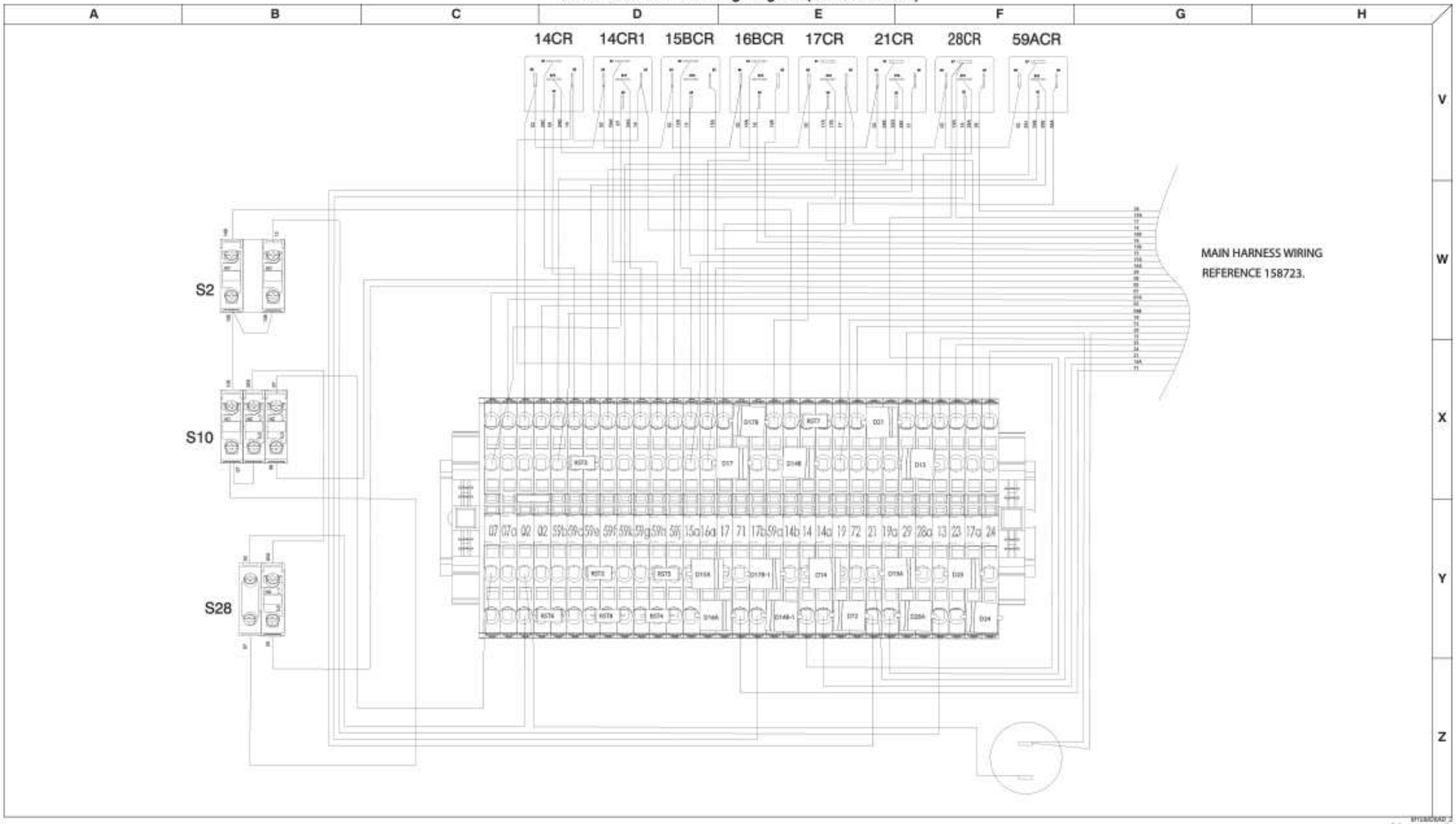
MODEL	SJ12	SJ16
Weight *	780 kg	966 kg
Overall Width	76.2 cm	76.2 cm
Overall Length	136 cm	136 cm
Platform Size (inside)	68.5 x 93.5 cm	68.5 x 93.5 cm
Platform Traversing	40.6 cm	40.6 cm
Height		
Working Height	5.5 m	6.7 m
Platform Elevated Height	3.7 m	4.9 m
Stowed Height	45.7 cm	45.7 cm
Drive Height	Full	Full
Standard Operating Times		
Lift Time (Rated Load)	16 s	20 s
Lower Time (Rated Load)	14 s	18 s
Chassis		
Normal Drive Speed	4.0 km/h	4.0 km/h
Elevated Drive Speed	0.8 km/h	0.8 km/h
Gradeability (Ramp Angle)**	30% / 25%	30% / 25%
Tires (Solid Rubber)	309 x 100 mm	309 x 100 mm
Hydraulic Oil		
Type	ATF Dexron III	ATF Dexron III
Tank Capacity	4.92 L	4.92 L

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* Weights are approximate; refer to serial nameplate for specific weight.
** Refer to Section 3.9 Loading/Unloading for more details.

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3.16c Base Control Wiring Diagram (SJ12/SJ16 - AS)



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5.1-1 Resistor - Voltage Divider

5.1-2 Troubleshooting - Diagnostic Switch

The SJ12 and SJ16 machines are equipped with a diagnostic switch for the purpose of troubleshooting. Once the deck is in the service position (deck fully extended out), the electric signal to the motor controller enable function is disengaged. All electrical wiring and components can be checked in the service position other than the signal to the enable of the motor controller. To accomplish this you would be required to engage the diagnostic switch.

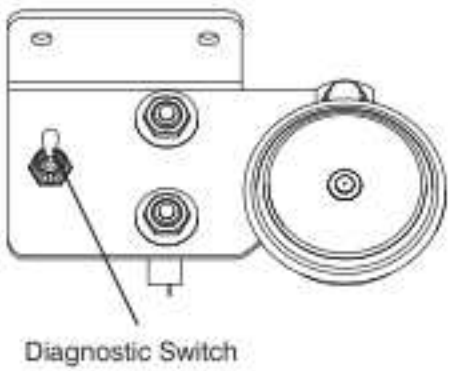


Figure 5-1. Diagnostic and Horn Assembly

5.1-3 Tilt Switch Orientation

The design of this equipment and the tilt switch require it to be installed in a specific direction. Below you will find a picture indicating the direction of TS1 Tilt Switch. As indicated in the picture the tilt switch is oriented so that the wiring harness as well as the reset buttons face the center of the machine.

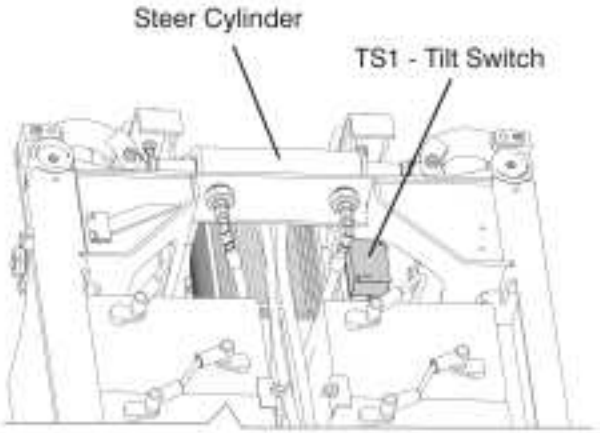


Figure 5-2. Tilt Switch Orientation

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Table 2.3a Maximum Platform Capacities (Evenly Distributed) - ANSI/CSA

MODEL	Capacity		Maximum Wind Speed	Tilt Cutout Setting
SJ12	500 lb.	2 Person(s)	No Wind	1.5 x 3
		1 Person(s)	28 mph	
SJ16	500 lb.	2 Person(s)	No Wind	1.5 x 3
		1 Person(s)	28 mph	

267AB_ANSI

Table 2.3b Maximum Platform Capacities (Evenly Distributed) - KC

MODEL	Capacity		Maximum Wind Speed	Tilt Cutout Setting
SJ12	227 kg	2 Person(s)	No wind	1.5 x 3
		1 Person(s)	12.5 m/s	
SJ16	227 kg	2 Person(s)	No wind	1 x 2

263KCAA

Table 2.3c Maximum Platform Capacities (Evenly Distributed) - CE

MODEL	Capacity		Maximum Wind Speed	Tilt Cutout Setting
SJ12	227 kg	2 Person(s)	No wind	1.5 x 3
		1 Person(s)	12.5 m/s	
SJ16	227 kg	2 Person(s)	No wind	1 x 2

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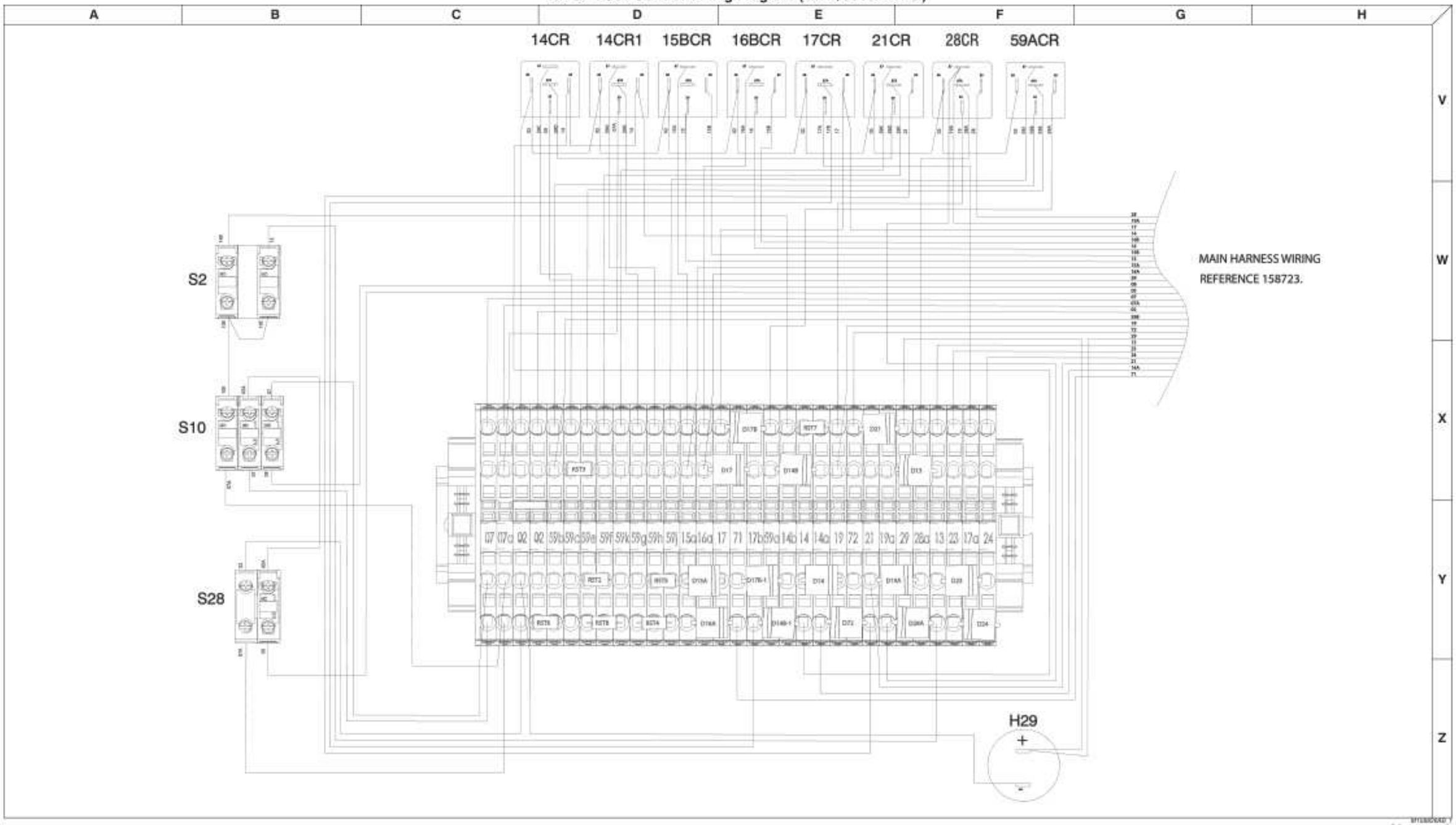
Table 2.3d Maximum Platform Capacities (Evenly Distributed) - AS

MODEL	Capacity		Maximum Wind Speed	Tilt Cutout Setting
SJ12	227 kg	2 Person(s)	No wind	1.5 x 3
		1 Person(s)	12.5 m/s	
SJ16	227 kg	2 Person(s)	No wind	1.5 x 3
		1 Person(s)	12.5 m/s	

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3.16a Base Control Wiring Diagram (SJ12/SJ16 - ANSI)



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