

SERVICE MANUAL

TELESCOPIC BOOMS

MODELS SJ40T SJ45T

166874AJ September 2025

SKYJACK

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Section 1
SCHEDULED MAINTENANCE

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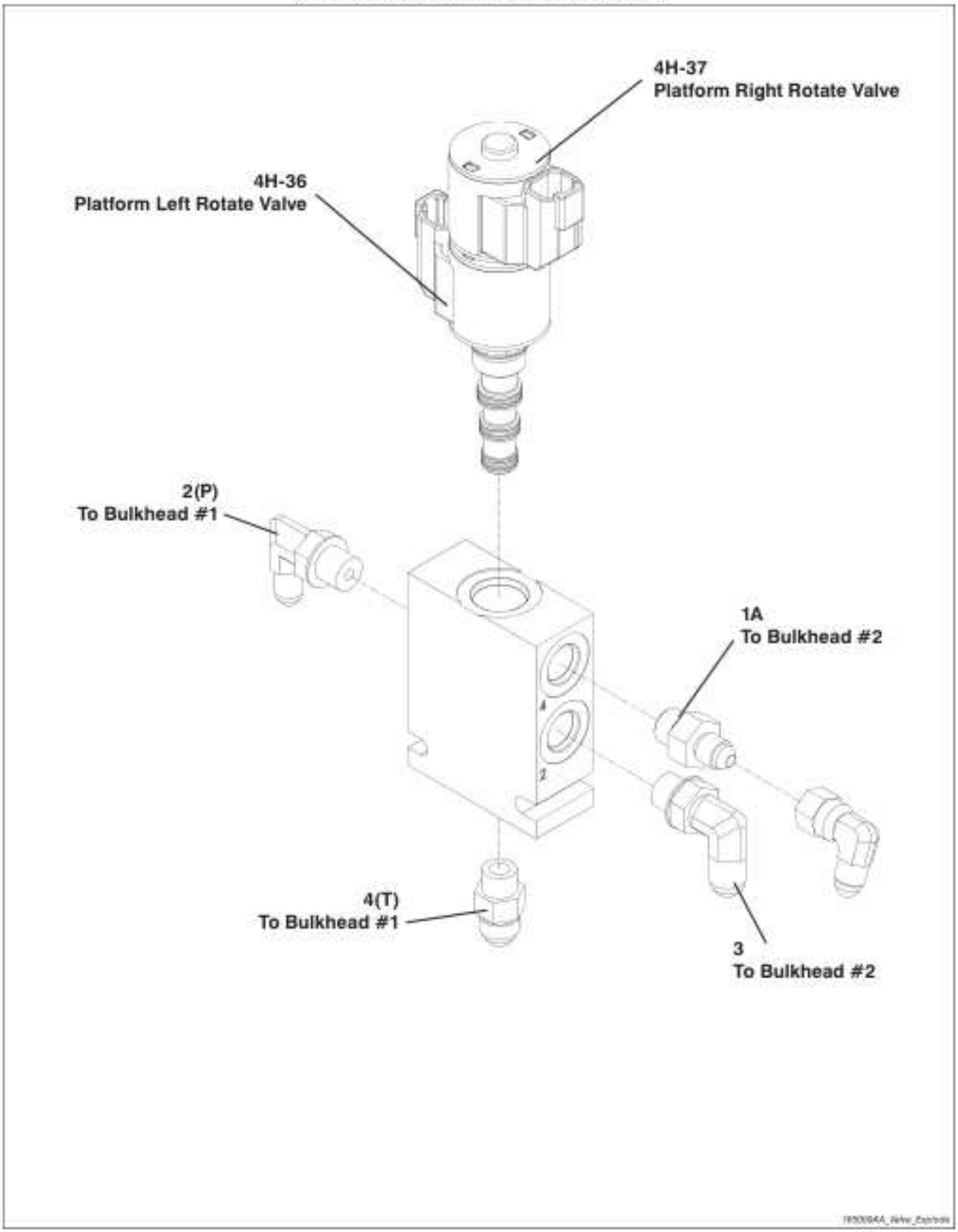
Table 2.11 Specifications and Features

MODEL			SJ 40T (ANSI/CSA)	SJ 45T (ANSI/CSA)	SJ 45T (CE)	SJ 45T (AS)
Maximum Load Capacity			650 lb. (295 kg)	500 lb (227 kg)	500 lb (227 kg)	500 lb (227 kg)
Platform Size	Total Platform Length (Outside)		72 in. (182.9 cm) 96 in. (243.8 cm)	72 in. (182.9 cm) 96 in. (243.8 cm)	72 in. (182.9 cm) 96 in. (243.8 cm)	72 in. (182.9 cm) 96 in. (243.8 cm)
	Total Platform Depth (Outside)		36 in. (91.4 cm)	36 in. (91.4 cm)	36 in. (91.4 cm)	36 in. (91.4 cm)
Height	Working		44 ft. (13.4 m)	48 ft. (14.6 m)	51 ft. 6 in. (15.7 m)	51 ft. 6 in. (15.7 m)
	Platform Elevated		40 ft. (12.4 m)	45 ft. (13.7 m)	45 ft. (13.7 m)	45 ft. (13.7 m)
	Drive		driveable at all heights	driveable at all heights	driveable at all heights	driveable at all heights
	Turret		7 ft. 10 in. (2.4 m)	7 ft. 10 in. (2.4 m)	7 ft. 10 in. (2.4 m)	7 ft. 10 in. (2.4 m)
Length	Overall with platform		25 ft. 5 in. (7.7 m)	28 ft. 10 in. (8.8 m)	28 ft. 10 in. (8.8 m)	25 ft. 6 in. (7.8 m)
	Base and tires		12 ft. 3 in. (3.7 m)	12 ft. 3 in. (3.7 m)	12 ft. 3 in. (3.7 m)	12 ft. 3 in. (3.7 m)
Width	Outside std. tires		7 ft. 6 in. (2.3 m)	7 ft. 6 in. (2.3 m)	7 ft. 6 in. (2.3 m)	7 ft. 6 in. (2.3 m)
	Turret		7 ft. 4 in. (2.2 m)	7 ft. 4 in. (2.2 m)	7 ft. 4 in. (2.2 m)	7 ft. 4 in. (2.2 m)
Weight	Weight (with air tires)		14,900 lb. (6,759 kg)	15,850 lb. (7,189 kg)	-	-
	Weight (with foam-filled tires)		15,700 lb. (7,121 kg)	16,650 lb. (7,552 kg)	16,250 lb (7371 kg)	16,650 lb. (7,552 kg)
Platform Rotation			170 degrees	180 degrees	180 degrees	180 degrees
Horizontal Reach			34 ft. (10.4 m)	39 ft. 9 in. (12.1 m)	39 ft. 9 in. (12.1 m)	39 ft. 9 in. (12.1 m)
Wheelbase			8 ft. (2.4 m)	8 ft. (2.4 m)	8 ft. (2.4 m)	8 ft. (2.4 m)
Turret Rotation			360 degrees continuous	360 degrees continuous	360 degrees continuous	360 degrees continuous
Turret Tailswing			3 ft. 1 in. (94 cm)	3 ft. 1 in. (94 cm)	3 ft. 1 in. (94 cm)	3 ft. 1 in. (94 cm)
Gradeability (torque equivalent to)			45%	45%	45%	45%
Ground Clearance Between Wheels			11 in. (28 cm)	11 in. (28 cm)	11 in. (28 cm)	11 in. (28 cm)
Turning Radius	Inside	2WD	7 ft. 7 in. (2.3 m)	7 ft. 7 in. (2.3 m)	-	-
		4WD	9 ft. (2.7 m)	9 ft. (2.7 m)	9 ft. (2.7 m)	9 ft. (2.7 m)
	Outside	2WD	17 ft. (5.2 m)	17 ft. (5.2 m)	-	-
		4WD	18 ft. 7 in. (5.7 m)	18 ft. 7 in. (5.7 m)	18 ft. 7 in. (5.7 m)	18 ft. 7 in. (5.7 m)
System Voltage			12 VDC	12 VDC	12 VDC	12 VDC
Battery	Type		Lead Acid	Lead Acid	Lead Acid	Lead Acid
	Cold Cranking Amperes		800 A	800 A	900 A	950 A
Operating Times	Main boom up		30 - 40 seconds (approx.)	30 - 40 seconds (approx.)	35 - 45 seconds (approx.)	30 - 40 seconds (approx.)
	Main boom down		30 - 40 seconds (approx.)	30 - 40 seconds (approx.)	35 - 45 seconds (approx.)	40 - 50 seconds (approx.)
	Fly boom extend		30 - 40 seconds (approx.)	30 - 40 seconds (approx.)	30 - 40 seconds (approx.)	30 - 40 seconds (approx.)
	Fly boom retract		30 - 40 seconds (approx.)	30 - 40 seconds (approx.)	30 - 40 seconds (approx.)	30 - 40 seconds (approx.)
	Jib up		20 - 30 seconds (approx.)	20 - 30 seconds (approx.)	20 - 30 seconds (approx.)	20 - 30 seconds (approx.)
	Jib down		14 - 24 seconds (approx.)	14 - 24 seconds (approx.)	14 - 24 seconds (approx.)	14 - 24 seconds (approx.)
	Turret rotate - counterclockwise 360° (fully stowed)		70 - 110 seconds (approx.)	70 - 110 seconds (approx.)	70 - 110 seconds (approx.)	70 - 110 seconds (approx.)
	Platform rotate - full		10 - 20 seconds (approx.)	10 - 20 seconds (approx.)	10 - 20 seconds (approx.)	10 - 20 seconds (approx.)
Driving Speeds	Drive Speed (maximum-stowed)		4.5 mph (7.2 km/h)	4.5 mph (7.2 km/h)	4.5 mph (7.2 km/h)	4.5 mph (7.2 km/h)
	Drive Speed (maximum-elevated)		0.5 mph (0.8 km/h)	0.5 mph (0.8 km/h)	0.5 mph (0.8 km/h)	0.5 mph (0.8 km/h)

1081 AA- ALL Standards

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3.12 No Jib Valve and Port Identifications



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Introduction

The following pages contain a table of Troubleshooting Information for locating and correcting most service trouble which can develop. Careful and accurate analysis of the systems listed in the table of Troubleshooting Information will localize the trouble more quickly than any other method. This manual cannot cover all possible troubles and deficiencies that may occur. If a specific trouble is not listed, isolate the major component in which the trouble occurs, isolate whether the problem is electrical or hydraulic, and then isolate and correct the specific problem.

The content of this section is separated into "probable cause" and "remedy." The information preceded by a number represents the "probable cause." The following line, noted by a dash represents the "remedy" to the "probable cause" directly above it. See example below for clarification.

1. Probable Cause
   - Remedy

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Section 4
TROUBLESHOOTING INFORMATION

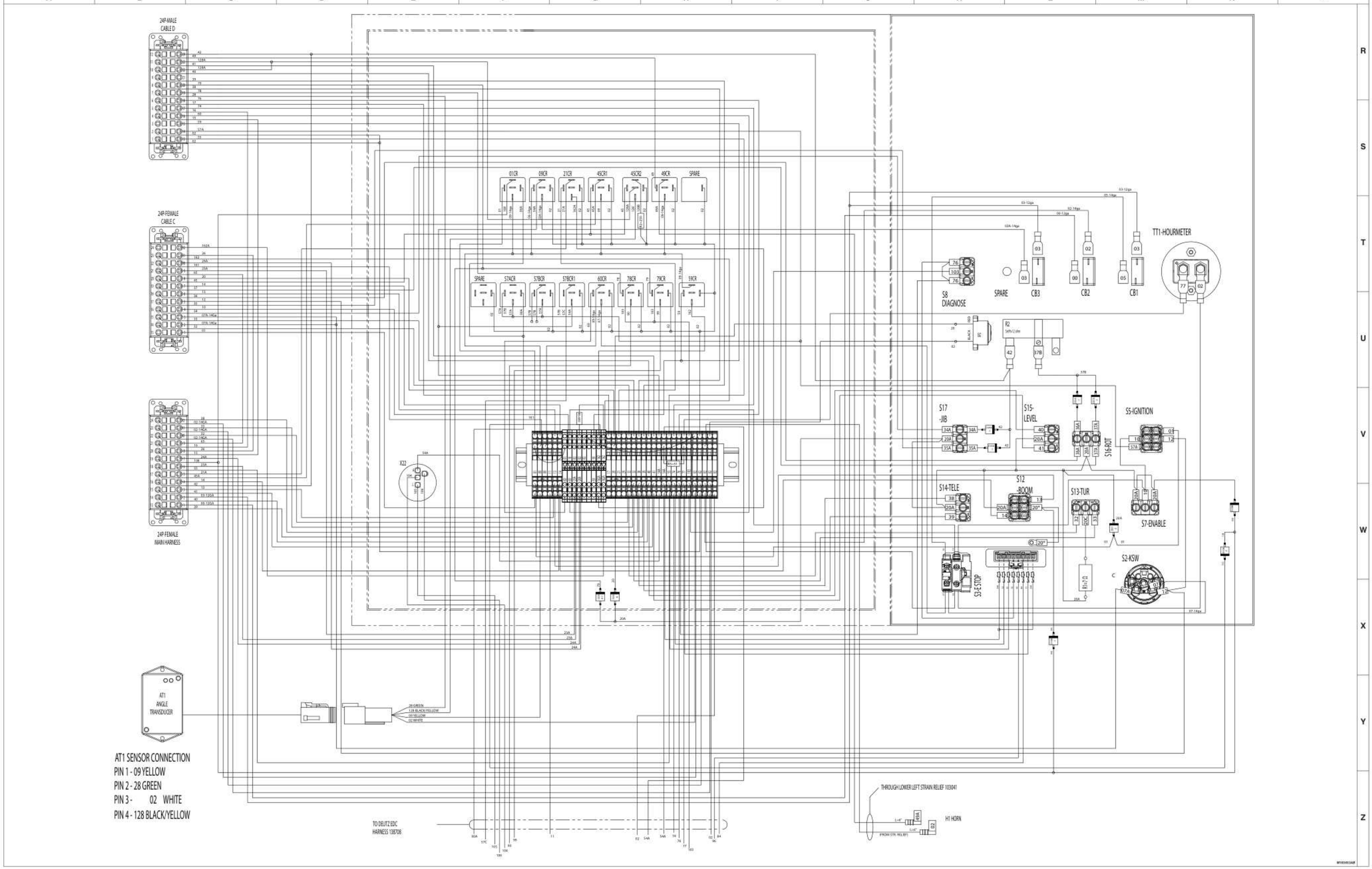
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Models SJ 40T, SJ 45T
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