

SERVICE MANUAL

TELESCOPIC BOOMS

MODELS SJ61T SJ66T

143871AM September 2025

SKYJACK

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Section 1
SCHEDULED MAINTENANCE

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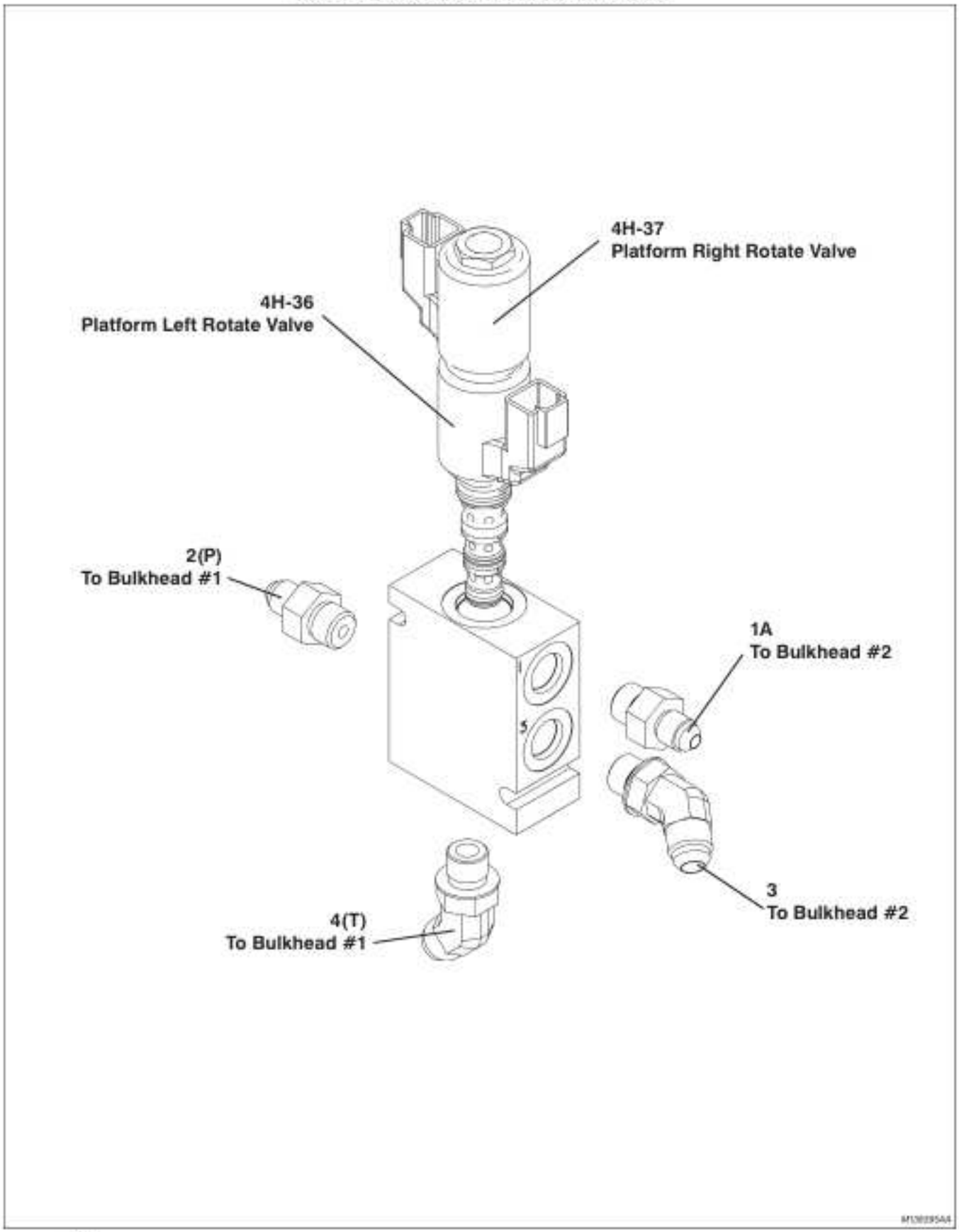
Table 2.8 Specifications and Features (continued)

MODEL				SJ 61T (ANSI/CSA)	SJ 66T (ALL STANDARDS)
Engine - Deutz	Engine Type			Deutz D2011L04i	
	RPM Settings			1600 Low / 2100 / 2675 High	
	Gross Intermittent HP			48 kW / 65 Hp	
	Horsepower @ 2600 rpm (intermittent)			48 kW / 65 Hp	
	Fuel Type			Diesel	
	Fuel Tank Capacity			45 gal (170.3 L)	
	Standard Oil Factory Fill	Ambient Temperature Limits	0°F to 115°F (- 18°C to +45°C)	SAE 15W-40 API CF/CG/CH-4	
	Cold Lube Oil Option		- 20°F to 90°F (- 29°C to +32°C)	SAE 5W-30 API CF/CG/CH-4	
	Arctic Lube Oil Option		- 40°F to 115°F (- 40°C to +45°C)	SAE 0W-40 API CF/CG/CH-4	
	Apporved Alternates			See Engine Manual	
	Lube Oil Sump Capacity			2.64 gal (10.0 L)	
Engine - GM	Engine Type			3.0L GM Dual Fuel	
	RPM Settings			900 Low / 1620 / 2675 High	
	Gross Intermittent HP			46 kW / 62 Hp	
	Horsepower @ 2600 rpm (intermittent)			45 kW / 60 Hp	
	Fuel Type - Dual			Gasoline/Propane	
	Fuel Tank Capacity			45 gal (170.3 L)	
	Standard Oil Factory Fill	Ambient Temperature Limits	- 40°F to 115°F (- 40°C to +45°C)	SAE 5W-30 API SL	
	Apporved Alternates			See Engine Manual	
	Lube Oil Capacity			1.19 gal (4.5 L)	
	Standard Coolant	Ambient Temperature Limits	- 20°F to 115°F (- 29°C to +45°C)	GM 50/50 Extended Life Coolant	
	Arctic Coolant Option		- 40°F to 115°F (- 40°C to +45°C)	GM 60/40 Extended Life Coolant	
	Coolant Capacity			3.0 gal (11.4 L)	
Hydraulic Oil	Hyd Cooler Option	Ambient Temperature Limits	100°F to 115°F (+38°C to +45°C)	Oil cooler option recommended	
	Standard Factory Fill		-15°F to 100°F (-26°C to +38°C)	Shell Tellus T46	
	Arctic Oil Option		- 40°F to 100°F (- 40°C to +38°C)	Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME	
	Apporved Alternates		-15°F to 100°F (-26°C to +38°C)	Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV	
			- 40°F to 80°F (- 40°C to +27°C)	Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 15	
	Hydraulic Tank Capacity			59 gal (223.3 L)	

1089-ALL Standards

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3.12 No Jib Valve and Port Identifications



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6. No fuel in fuel tank or fuel line obstructions.
   - Check fuel level and flow through lines. Fill or repair if necessary.

NOTE

For other engine related problems, consult engine manufacturer's manual.

4.1-8 Engine Will Not Crank from Platform or Base Control (GM Dual Fuel)

1. Loose or broken wire #54A from base terminal block TB1 to engine harness plug.
   - Check continuity. Replace if defective.
2. Loose or broken wire #54A from engine harness plug to GM engine connector 1.
   - Check continuity. Replace if defective.
3. Loose or broken pink wire from GM engine connector 1 to fuse F7.
   - Check continuity. Replace if defective.
4. Defective fuse F7.
   - Check fuse. Replace if defective
5. Loose or broken pink/tan wire from fuse F7 to ECU connector pin #45.
   - Check continuity. Replace if defective
6. Loose or broken red wire from battery positive to ECU fuse F8.
   - Check continuity. Replace if defective.
7. Defective fuse F8.
   - Check fuse. Replace if defective.
8. Loose or broken red/tan wire from fuse F8 to ECU connector pin #60 and pin #79.
   - Check continuity. Replace if defective.
9. Loose or broken black wire from engine ground to ECU connector pin #69 and #81.
   - Check continuity. Replace if defective.
10. Loose or broken light blue/pink wire from GM engine connector 1 to relay 57ACR.
    - Check continuity. Replace if defective.
11. Loose or broken pink/black wire from ECU connector pin #89 to relay 57ACR.
    - Check continuity. Replace if defective.
12. Defective relay 57ACR.
    - Check relay. Replace if defective.
13. Loose or broken red wire from battery positive to starter fuse F12.
    - Check continuity. Replace if defective.
14. Defective fuse F12.
    - Check fuse. Replace if defective.
15. Loose or broken red/tan wire from fuse F12 to relay 57ACR.
    - Check continuity. Replace if defective.
16. Loose or broken white wire from relay 57ACR to start solenoid 32BCR.
    - Check continuity. Replace if defective.
17. Defective starter solenoid 32BCR.
    - 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 Cranks but Will Not Start (GM Dual Fuel)

NOTE

For additional engine troubleshooting refer to diagnostic trouble codes for use with the check engine light.

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Serial Breakdown Reference Chart		
Models	**Serial Number**	**Reference**
SJ 66T	97000324 & Above	Figure 3.32a
	97000323 & Below	Figure 3.32b

