

SERVICE MANUAL

TELESCOPIC BOOMS

MODELS SJ61T SJ66T

168895AK September 2025

SKYJACK

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Section 1
SCHEDULED MAINTENANCE

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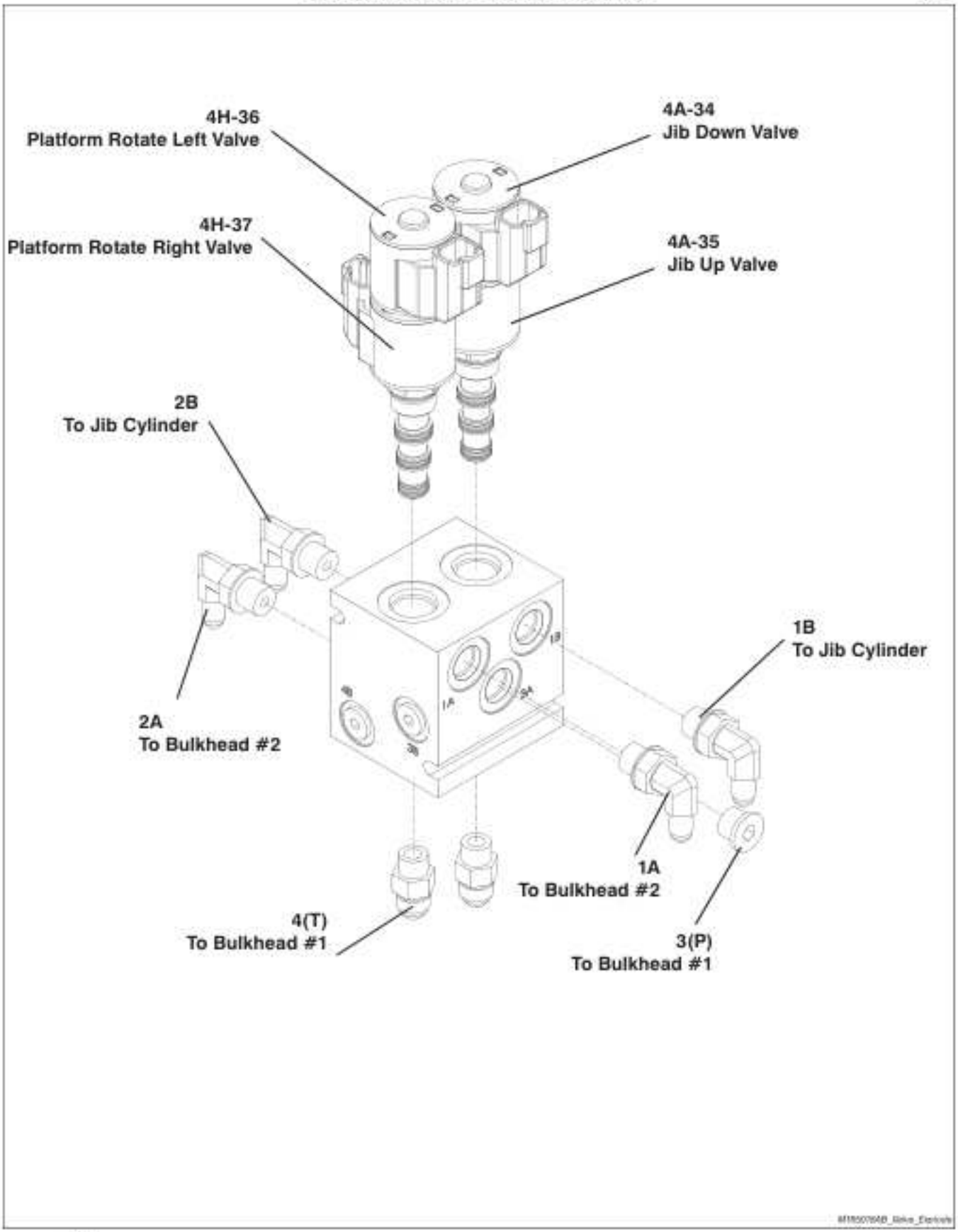
Table 2.10 Hydraulic Specifications

DESCRIPTION			SJ 61T / 66T	SJ66T	SJ66T
			ANSI/CSA	CE	AS
Pump Specifications	Drive Pump	Displacement - 2600 rpm	2.8 CIR 30 gpm @ 2600 rpm	46 CC	46 CC
		Drive Pump Pressure	4350 psi	300 bar	300 bar
		Charge Pump Displacement	0.85 CIR	13.9 CC	13.9 CC
		Charge Pump Pressure	313 psi	22 bar	22 bar
	System Pump	Displacement - Static	1.83 CIR / 20.6 gpm @ 2600 rpm	30 CC	30 CC
		System Pump Pressure	3000 psi	207 bar	207 bar
Filter Specifications		Charge Pump Filter	25 psi	9 µm/35	9 µm/35
		High Pressure Filter	87 psi	10 µm/25	10 µm/25
		Return Filter	25 psi	10 µm/60	10 µm/60
Motor Specifications	Drive Motor	Displacement - Low	0.88 CIR / 15.2 gpm @ 2600 rpm	14.4 CC	14.4 CC
		Displacement - High	2.32 CIR / 22.8 gpm @ 2600 rpm	38 CC	38 CC
	Swing Motor	Motor Displacement	4 CIR / 39.4 gpm @ 2600 rpm	65.56 CC	65.56 CC
		Maximum Swing Pressure	1400 psi	96 bar	96 bar
Cylinder Specifications	Extension Cylinder	Bore	2.5 in.	6.35 cm	6.35 cm
		Rod Diameter	1.5 in.	3.8 cm	3.8 cm
		Stroke	167 in.	4.45 m	4.45 m
		Maximum Boom Pressure	3000 psi	207 bar	207 bar
	Lift Cylinder	Bore	6 in.	15.24 cm	15.24 cm
		Rod Diameter	3 in.	7.6 cm	7.6 cm
		Stroke	44.26 in.	1.12 m	1.12 m
		Maximum Lift Pressure	3000 psi	207 bar	207 bar
	Steering Cylinder	Differential Area	3.07 in.	7.8 cm	7.8 cm
		Steering Cylinder Stroke	4.32 in.	10.9 cm	10.9 cm
		Maximum Steering Pressure	2175 psi	150 bar	150 bar
For other component specifications, refer to hydraulic schematic.					

1060-ALL Standards

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3.12 Jib Valve and Port Identifications **AB**



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5.4-6 Deutz D2.9L Fault Codes

Code	SPN	FMI	Blink Code	Error Identification
1677	524106	9	1-9-5	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw1 (EGR actuator)
1678	524107	9	9-3-1	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw2 (EGR actuator).
1679	524109	9	9-3-3	Timeout error of CAN-Receive-Frame ComRxEGRTVActr (EGR actuator).
1680	524111	9	9-3-5	Timeout error of CAN-Receive-Frame ComRxETVActr.
1681	524113	9	9-3-7	Timeout error of CAN-Receive-Frame ComRxITVActr.
1682	524120	9	9-4-4	Timeout error of CAN-Receive-Frame ComRxSCRHtDiag.
1683	524121	9	9-4-5	Timeout error of CAN-Receive-Frame ComRxTrbChActr (wastegate actuator).
1684	524122	9	9-4-6	Timeout error of CAN-Receive-Frame ComRxUQSens (Urea quality).
1685	524123	9	9-4-7	Timeout error of CAN-Receive-Frame ComSCRHtCtl.
1686	524124	9	9-4-8	Timeout error of CAN-Receive-Frame ComTxAT1IMG.
1687	524125	9	9-4-9	Timeout error of CAN-Receive-Frame ComTxTrbChActr (Wastegate actuator).
1698	524133	2	9-5-6	HMI system; set if restore button blocked.
1699	524134	0	9-5-7	DPF, ash load exceeds the shutoff threshold.
1700	524134	0	9-5-7	DPF, ash load exceeds the warning threshold.
1701	524135	0	9-5-8	DPF, soot load exceeds the shutoff threshold.
1702	524135	14	9-5-8	DPF, soot load exceeds the service request threshold.
1703	524135	0	9-5-8	DPF, soot load exceeds the warning threshold.
1705	524156	9	9-7-2	Timeout error of CAN-Receive-Frame ComRxEBC2.
1706	524157	9	9-7-3	Fan control; time out for fan governing.
1708	524159	0	9-7-5	Fan; short circuit battery or open load.
1709	524159	1	9-7-5	Fan; short circuit ground.
1710	524160	5	9-7-6	Fan; in/outlet valve 1; open load.
1712	524160	3	9-7-6	Fan; in/outlet valve 1; short circuit battery.
1713	524160	4	9-7-6	Fan; in/outlet valve 1; open load ground.
1714	524161	5	9-7-7	Fan; in/outlet valve 2; open load.
1716	524161	3	9-7-7	Fan; in/outlet valve 2; short circuit battery.
1717	524161	4	9-7-7	Fan; in/outlet valve 2; open load ground.
1718	524162	12	9-7-8	Fan; fancontrol; angle sensor defect.
1719	524163	12	9-7-9	Fan; fancontrol; fan or valve defect.
1752	2791	7	4-1-5	EGR actuator, actuator blocked.
1753	2791	2	4-1-5	EGR actuator, CAN error.
1754	2791	13	4-1-5	EGR actuator, EOL calibration error.
1755	2791	12	4-1-5	EGR Actuator, internal electrical fault.
1756	2791	13	4-1-5	EGR actuator, learning process aborted.
1757	2791	6	4-1-5	EGR actuator current is above maximum threshold.
1758	2791	3	4-1-5	EGR actuator supply voltage is above the maximum threshold.

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Table 2.6 Torque Specifications for Hydraulic Couplings & Hoses

HYDRAULIC COUPLING TORQUE CHART O-Ring Port Connectors				
SAE Size	Steel Ports		Non-ferrous Ports	
	ft-lb	Nm	ft-lb	Nm
4	14-16	20-22	9-10	12-13
6	24-26	33-35	15-16	20-21
8	50-60	68-78	30-36	41-47
10	72-80	98-110	43-48	60-66
12	125-135	170-183	75-81	102-110
16	200-220	270-300	120-132	162-180
20	210-280	285-380	126-168	171-228
24	270-360	370-490	162-216	222-294
32	-	-	-	-

HOSE END TORQUE CHART for JIC									
Size		Steel				Brass			
Dash	Frac.	ft-lb		Nm		ft-lb		Nm	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
-4	1/4"	10	11	13	15	5	6	6.75	9
-6	3/8"	17	19	23	26	12	15	17	20
-8	1/2"	34	38	47	52	20	24	27.66	33
-10	5/8"	50	56	69	76	34	40	46.33	55
-12	3/4"	70	78	96	106	53	60	72.33	82
-16	1"	94	104	127	141	74	82	100.5	111
-20	1 1/4"	124	138	169	188	75	83	101.5	113
-24	1 1/2	156	173	212	235	79	87	107	118
-32	2"	219	243	296	329	158	175	214	237

HOSE END TORQUE CHART for Flat-Face O-Ring Seal (Steel)					
Size		Torque Specification			
Dash	Frac.	ft-lb		Nm	
		Min.	Max.	Min.	Max.
-4	1/4"	10	12	14	16
-6	3/8"	18	20	24	27
-8	1/2"	32	40	43	54
-10	5/8"	46	56	60	75
-12	3/4"	65	80	90	110
-14	1"	65	80	90	110
-16	1 1/4"	92	105	125	240
-20	1 1/2	125	140	170	190
-24	2"	150	180	200	245

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Section 4
TROUBLESHOOTING INFORMATION

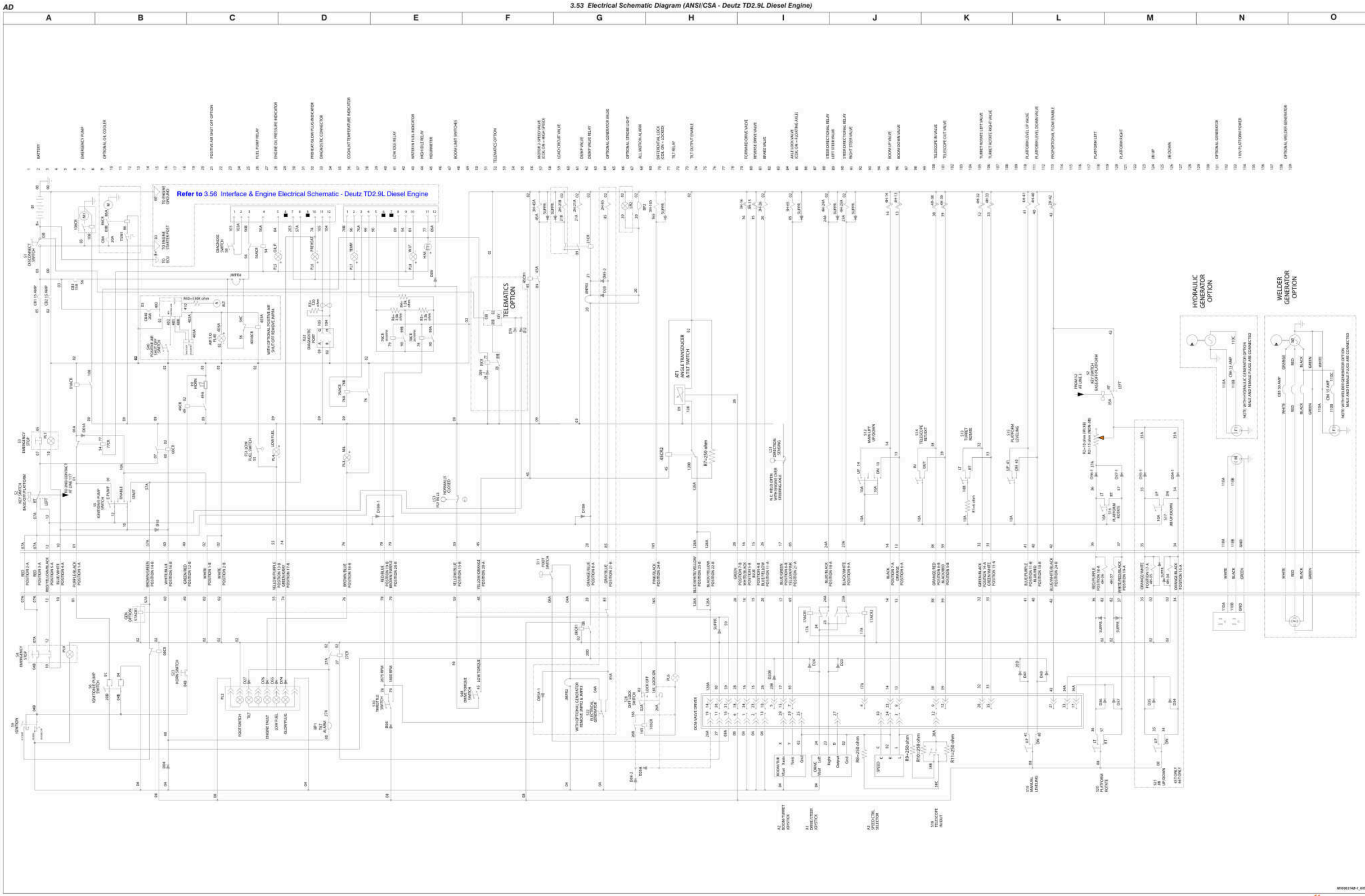
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Refer to 3.56 Interface & Engine Electrical Schematic - Deutz TD2.9L Diesel Engine
TELEMATICS OPTION
HYDRAULIC GENERATOR OPTION
WELDER GENERATOR OPTION
A1 JOYSTICK
A2 BOOM/TURRET JOYSTICK
A3 I/O CTRL SELECTOR
S38 TELESCOPE IN/OUT
S12 MAN LIFT UP/DOWN
S14 TELESCOPE RETRACT
S13 TURRET ROTATE
S35 PLATFORM LEVELING
S19 MAN LIFT LEVEL/LEVEL
S20 PLATFORM ROTATE
S21 UP DOWN
S37 ONLY
S36 ONLY
S1 KEY SWITCH BASE/PLATFORM
S2 KEY SWITCH BASE/PLATFORM
S3 EMERGENCY STOP
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S5 IGNITION/START SWITCH
S6 IGNITION/START SWITCH
S7 HORN SWITCH
S8 TILT SWITCH
S9 TILT SWITCH
S10 TILT SWITCH
S11 TILT SWITCH
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NOTE: WITH HYDRAULIC GENERATOR OPTION MALE AND FEMALE PLUGS ARE CONNECTED
NOTE: WITH WELDER GENERATOR OPTION MALE AND FEMALE PLUGS ARE CONNECTED