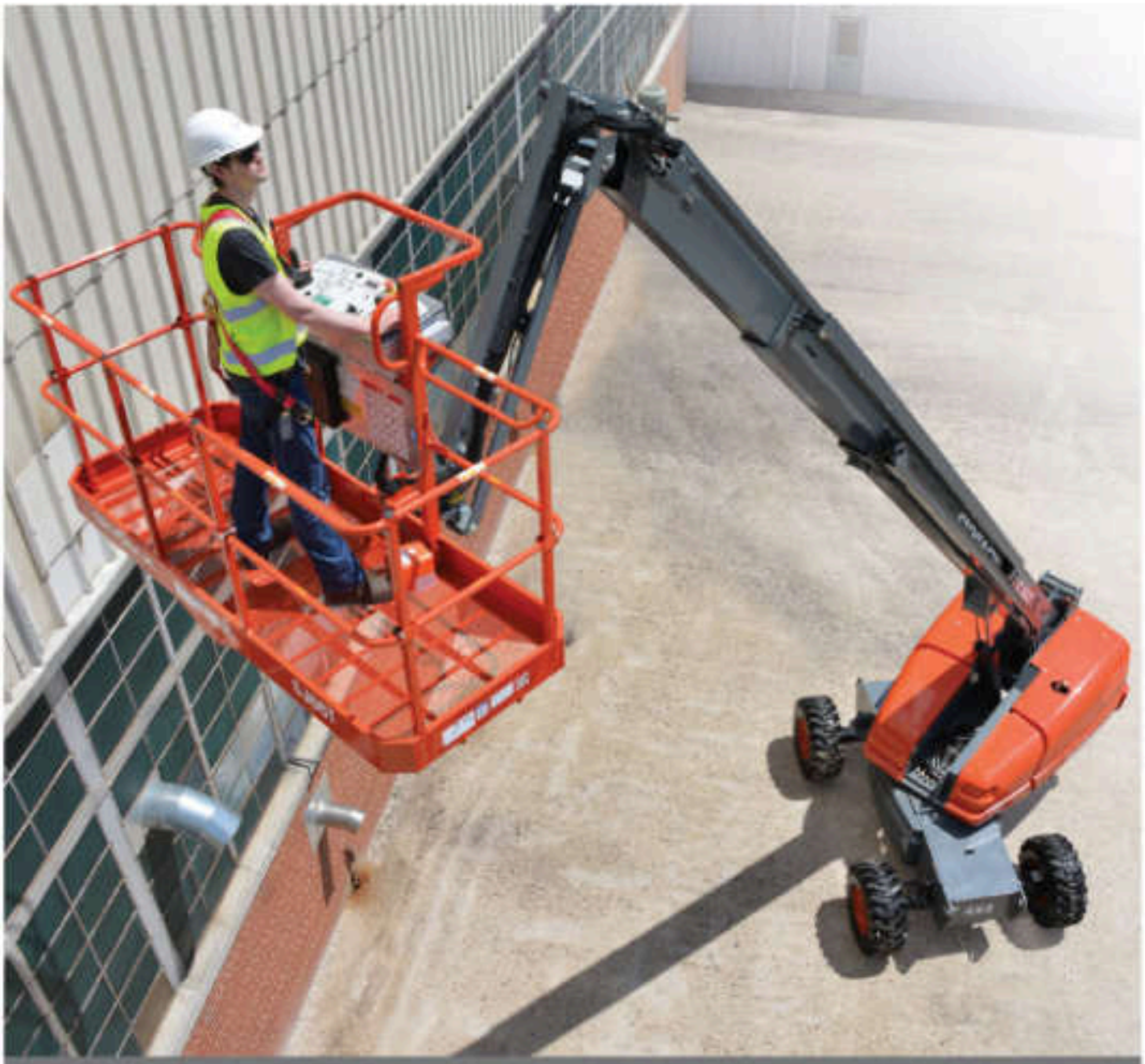


SERVICE MANUAL

TELESCOPIC BOOMS

MODELS SJ61T SJ66T

194312AL September 2025

SKYJACK

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Section 1
SCHEDULED MAINTENANCE

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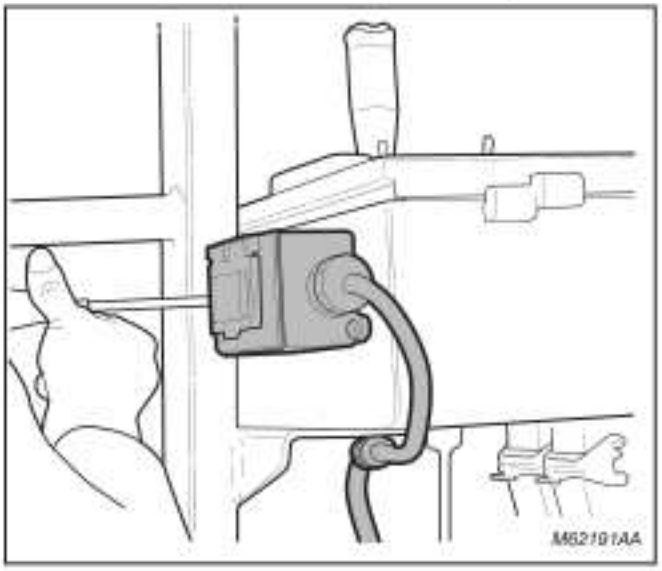
Table 2.11 Specifications and Features

	MODEL	SJ61T ANSI/CSA	SJ66T ANSI/CSA	SJ66T CE	SJ66T AS
Height & Reach	Working Height - Maximum	67' 8" (20.62 m)	72' 3" (22.02 m)	22.19 m	22.19 m
	Platform Height - Maximum	61' 8" (18.80 m)	66' 3" (20.19 m)	20.19 m	20.19 m
	Horizontal Reach - Maximum	51' 3" (15.62 m)	57' 1-1/4" (17.38 m)	17.38 m	17.38 m
	Horizontal Reach - at Maximum Height	13' 1/4" (3.97 m)	16' 1 in (4.90 m)	4.90 m	4.90 m
	Tailswing	52-1/2" (1.33 m)	52-1/2" (1.33 m)	1.33 m	1.33 m
Platform	Platform Size	36" x 72" (1.83 m) 36" x 96" (2.44 m)	36" x 72" (1.83 m) 36" x 96" (2.44 m)	0.91 x 1.83 m 0.91 x 2.44 m	0.91 x 1.83 m 0.91 x 2.44 m
	Platform Rotation	170°	175°	175°	175°
	Platform Height - Stowed	18-3/4"	10-3/4" (0.27 m)	0.27 m	0.27 m
	Railing Height - Overall	52-3/4"	52-3/4" (1.34 m)	1.34 m	1.34 m
	Railing Height - Stowed	43-1/2"	43-1/2" (1.10 m)	1.11 m	1.11 m
Dimensional Data	Height Stowed	8' 6" (2.59 m)	8' 6" (2.59 m)	2.59 m	2.59 m
	Length Stowed	30' 3-3/4" (9.24 m)	34' 1-1/2" (10.40 m)	10.40 m	10.40 m
	Width - Outside of Wheels	8' (2.44 m)	8' (2.44 m)	2.44 m	2.44 m
	Wheelbase	8' (2.44 m)	8' (2.44 m)	2.44 m	2.44 m
	Ground Clearance - Chassis	17" (0.43 m)	17" (0.43 m)	0.43 m	0.43 m
	Ground Clearance - Rear Axle	14-1/4" (0.36 m)	14-1/4" (0.36 m)	0.36 m	0.36 m
	Axle Oscillation	17°	17°	17°	17°
	Inside Turning Radius	6' 4" (1.93 m)	6' 4" (1.93 m)	1.93 m	1.93 m
	Outside Turning Radius	16' 7" (5.0 m)	16' 7" (5.05 m)	5.05 m	5.05 m
	Turning Angle	45°	45°	45°	45°
	Turret Rotation	360° continuous	360° continuous	360° continuous	360°s continuous
Lift Capacity	Lift Capacity to Maximum Gradeability	500 lbs (227 kg)	500 lbs (227 kg)	227 kg	227 kg
Jib	Jib Length	-	63" (1.60 m)	1.60 m	1.60 m
	Jib Travel - Down	-	63°	63°	63°
	Jib Travel - Up	-	61°	61°	61°
Performance & Speeds	Gradeability (torque equivalent to)	50%	50%	50%	50%
	Drive Speed (stowed/low torque)	4.5 mph (7.2 km/h)	4.5 mph (7.2 km/h)	7.2 km/h	7.2 km/h
	Drive Speed (stowed/high torque)	1.5 mph (2.4 km/h)	1.5 mph (2.4 km/h)	2.4 km/h	2.4 km/h
	Drive Speed (elevated)	0.5 mph (0.8 km/h)	0.5 mph (0.8 km/h)	0.8 km/h	0.8 km/h
	Turret rotate - 360°	90 - 110 seconds	90 - 110 seconds	160 - 180 seconds	160 - 180 seconds
	Platform rotate - full	5 - 9 seconds	5 - 9 seconds	7 - 15 seconds	7 - 15 seconds
	Main boom up	50 - 56 seconds	50 - 56 seconds	76 - 84 seconds	76 - 84 seconds
	Main boom down	50 - 56 seconds	50 - 56 seconds	76 - 84 seconds	76 - 84 seconds
	Boom extend	62 - 68 seconds	62 - 68 seconds	50 - 70 seconds	50 - 70 seconds
	Boom retract	37 - 43 seconds	37 - 43 seconds	40 - 50 seconds	40 - 50 seconds
	Jib up	-	18 - 28 seconds	25 - 45 seconds	25 - 45 seconds
	Jib down	-	10 - 18 seconds	16 - 20 seconds	16 - 20 seconds
Electrical	System Voltage	12 VDC	12 VDC	12 VDC	12 VDC
	Type	Lead/Acid	Lead/Acid	Lead/Acid	Lead/Acid
Weight & Pressure	Weight (with standard air tires)	23,500 lb. (10 650 kg)	26,700 lb. (12 100 kg)	-	-
	Weight (with standard foam tires)	25,000 lb. (11 340 kg)	28,200 lb. (12 790 kg)	12 800 kg	12 800 kg
	Wheel Load (standard air tires)	12,000 lbs (5450 kg)	13,500 lbs (6150 kg)	-	-
	Wheel Load (standard foam tires)	12,360 lbs (5600 kg)	13,900 lbs (6300 kg)	6300 kg	6300 kg
	Locally Concentrated Pressure - Air	140 psi (965 kPa)	160 psi (1100 kPa)	-	-
	Locally Concentrated Pressure - Foam	145 psi (1000 kPa)	165 psi (1140 kPa)	1140 kPa	1140 kPa
	Overall Uniform Pressure - Air	310 psf (14.8 kPa)	355 psf (17 kPa)	-	-
	Overall Uniform Pressure - Foam	330 psf (15.8 kPa)	372 psf (17.8 kPa)	17.8 kPa	17.8 kPa

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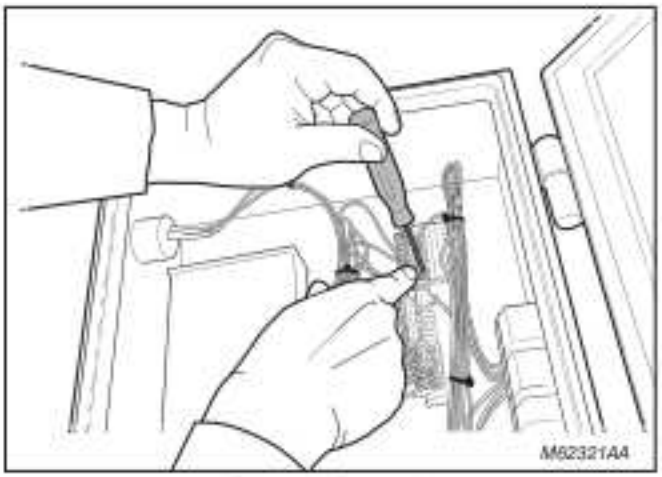
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2. Remove the auxiliary AC receptacle box (as equipped) if its harness is bundled with the other harnesses. Remove the harness clamps.



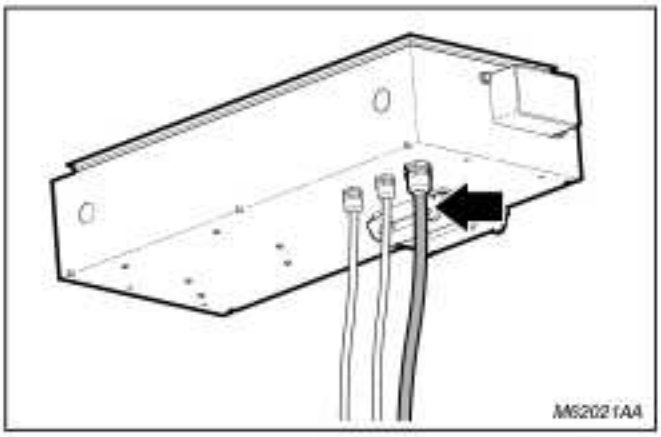
Auxiliary AC Receptacle Box

3. Open the control console lid to disconnect the jib and platform rotate harness.
4. Remove tie wraps and make note of wire labels for reinstallation.
5. To release each wire, insert a small flat screwdriver into the slot beside it in the terminal strip.



Control Console

6. Pull the disconnected harness out of the strain relief connector in the box.



Platform Rotate Harness

7. Pull all harnesses through the cable guard on the swivel joint.
8. Remove the hoses and wire cables from the P-clamp on the side of the fly boom.

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5.4-7 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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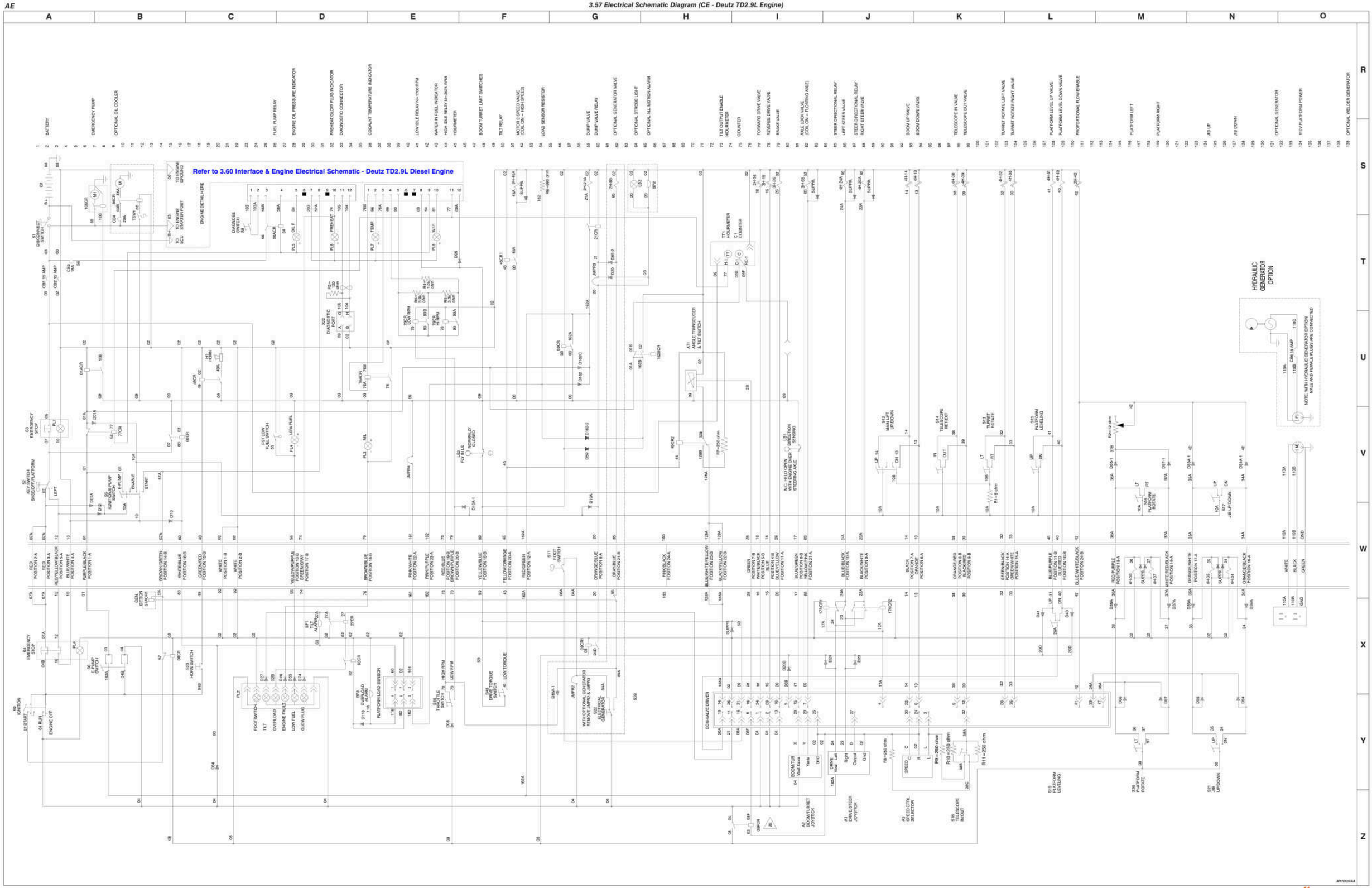
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3.57 Electrical Schematic Diagram (CE - Deutz TD2.9L Engine)



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