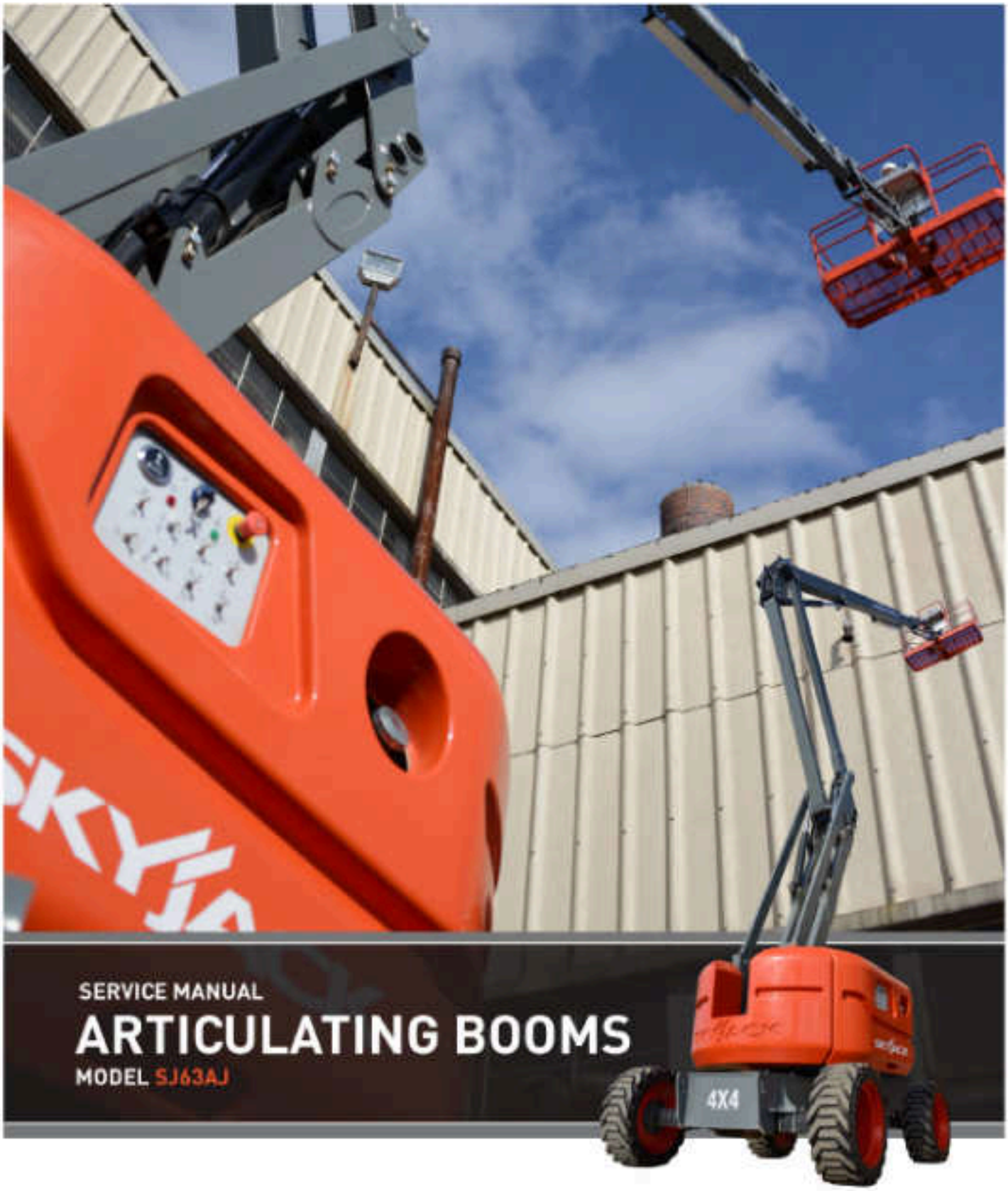


167275AJ August 2022

SKYJACK

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SCHEDULED MAINTENANCE

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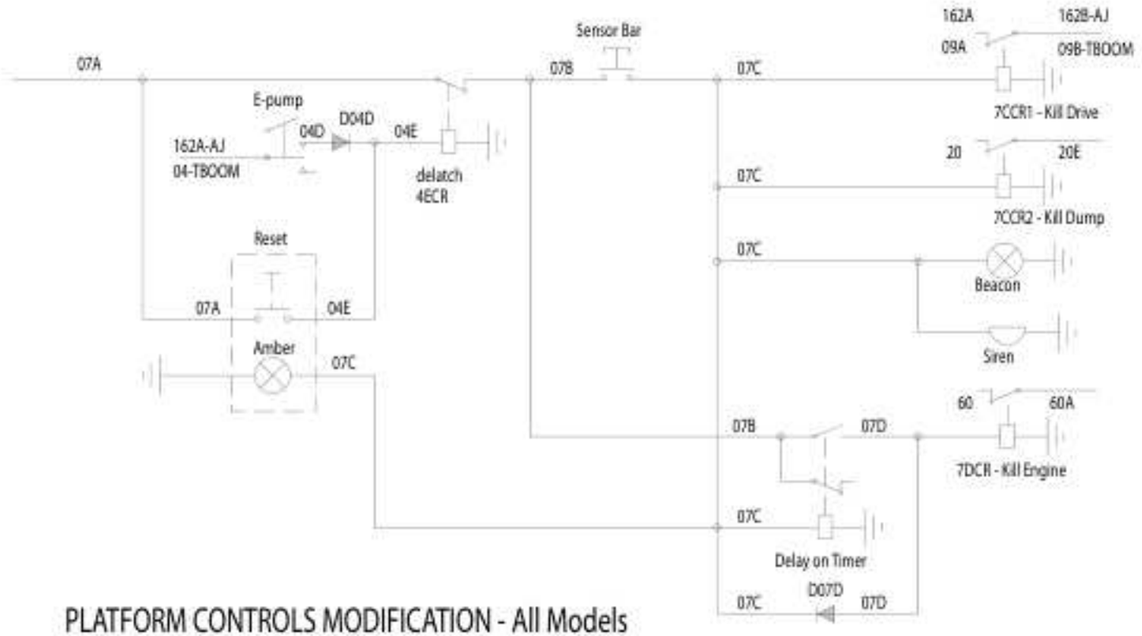
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Table 2.11 Hydraulic Specifications

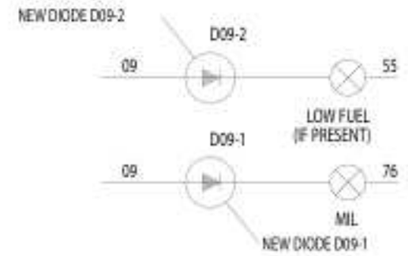
MODEL			SJ63AJ
Pump Specifications	Drive Pump	Displacement - 2675 rpm	2.48 CIR / 13.5 CC 28.7 gpm @ 2675 rpm
		Drive Pump Pressure	5000 psi / 344.7 bar
		Charge Pump Displacement	0.84 CIR / 13.8 CC
		Charge Pump Pressure	313 psi / 21.5 bar
	System Pump	Displacement - Static	1.98 CIR / 32 CC 22.8 gpm @ 2675 rpm
		System Pump Pressure	3000 psi / 207 bar
Filter Specifications		High Pressure Filter	87 psi / 10 µm/25
		Return Filter	25 psi / 10 µm/60
Motor Specifications	Drive Motor	Displacement - Low	1.77 CIR / 29 CC
		Displacement - High	3.97 CIR / 65 CC
	Swing Motor	Motor Displacement	4 CIR / 65.54 CC
		Maximum Swing Pressure	1400 psi / 97 bar
Cylinder Specifications	Extension Cylinder (Fly Boom)	Bore	2.48 in. / 6.3 cm
		Rod Diameter	1.57 in. / 4.0 cm
		Stroke	152.31 in. / 3.87 m
		Maximum Boom Pressure	2987 psi / 206 bar
	Lift Cylinder (Main)	Bore	4.33 in. / 11.0 cm
		Rod Diameter	2.76 in. / 7.0 cm
		Stroke	48.44 in. / 1.23 m
		Maximum Lift Pressure	2987 psi / 206 bar
	Lift Cylinder (Riser)	Bore	3.54 in. / 9.0 cm
		Rod Diameter	1.97 in. / 5.0 cm
		Stroke	27.5 in. / 69.85 cm
		Maximum Lift Pressure	2987 psi / 206 bar
	Steer Cylinder	Steering Cylinder Stroke	4.32 in. / 10.9 cm
		Maximum Steer Pressure	2175 psi / 150 bar
For other component specifications, refer to hydraulic schematic.			

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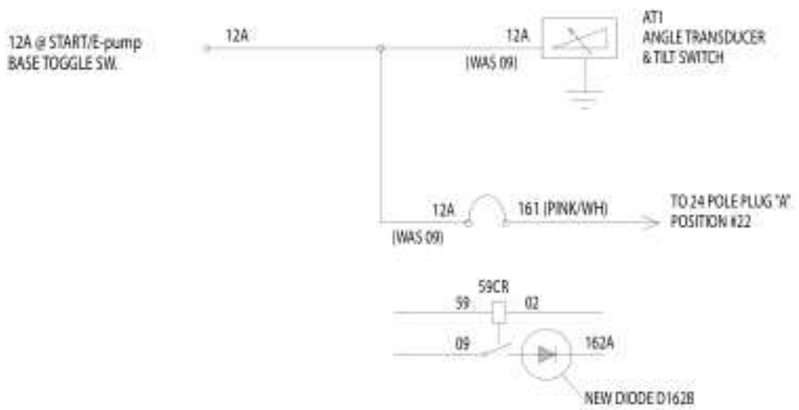
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PLATFORM CONTROLS MODIFICATION - All Models



BASE CONTROLS MODIFICATION -
Models with Deutz D2.9 or TD2.9 Engines



BASE CONTROLS MODIFICATION - AJ Models



BASE CONTROLS MODIFICATION - T Models

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5.4-6 Deutz TD2.9L Fault Codes

Code	SPN	FMI	Blink Code	Error Identification
1759	2791	4	4-1-5	EGR actuator supply voltage is below minimum threshold.
1760	2791	13	4-1-5	EGR actuator, learning process out of range.
1761	2791	7	4-1-5	EGR actuator, broken spring detected.
1762	2791	16	4-1-5	EGR actuator, temperature high.
1763	2791	0	4-1-5	EGR actuator, temperature critical high.
1788	1188	7	8-1-4	Turbocharger wastegate, mechanical blocking detected.
1789	1188	2	8-1-4	Turbocharger wastegate, CAN Error.
1790	1188	13	8-1-4	Turbocharger wastegate, EOL calibration error.
1791	1188	12	8-1-4	Turbocharger wastegate, internal electrical error.
1792	1188	13	8-1-4	Turbocharger wastegate, learning process aborted.
1793	1188	6	8-1-4	Turbocharger wastegate, current above maximum threshold.
1794	1188	3	8-1-4	Turbocharger wastegate, supply voltage above maximum threshold.
1795	1188	4	8-1-4	Turbocharger wastegate, supply voltage below minimum threshold.
1796	1188	13	8-1-4	Turbocharger wastegate, learning process out of range.
1797	1188	7	8-1-4	Turbocharger wastegate, broken spring detected.
1799	1188	0	8-1-4	Turbocharger wastegate, temperature critical high.
1827	524141	7	1-9-2	DEF dosing valve, dosing valve blocked.
1857	523612	12	5-5-5	Engine starter, plausibility error of starter release condition.
1858	524147	7	9-6-6	SCR-System, reverting valve blocked.

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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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A B C D E F G H I J K L M N O

R S T U V W X Y Z

