SKYJACK

SERVICE MANUAL

SJ63AJ

ARTICULATING BOOMS



194314AN
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CE, AS

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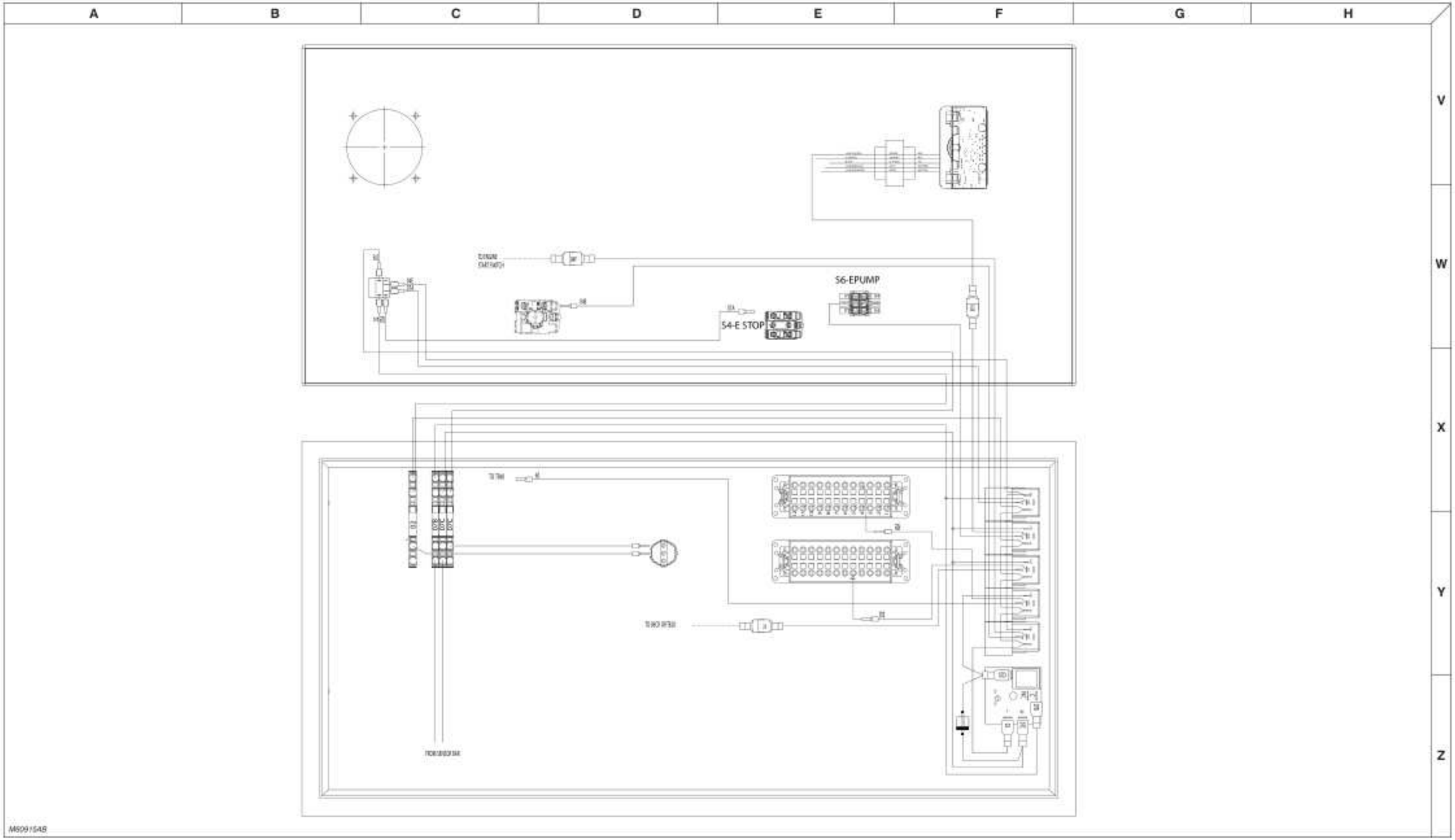
Table 2.11 Hydraulic Specifications & Gear Oil

Description		US	Metric
Pumps			
Drive Pump	Displacement - 2675 rpm	2.48 CIR 28.7 gpm @ 2675 rpm	13.5 CC
	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 22.8 gpm @ 2675 rpm	32 CC
	System Pump Pressure	3000 psi	207 bar
Filters			
High Pressure Filter	Max. Operating Pressure	87 psi	10 µm/25
Return Filter	Max. Operating Pressure	25 psi	10 µm/60
Motors			
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
Cylinders			
Extension Cylinder	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
Main Lift Cylinder	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
Riser Cylinder	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
Steering Cylinder	Steering Cylinder Stroke	4.32 in	10.9 cm
	Maximum Steer Pressure	2175 psi	150 bar
Hydraulic & Gear Oils			
Hydraulic Oil Cooler Option	100°F to 115°F (38°C to 45°C)	Oil cooler option recommended	
Standard Hydraulic Oil	-15°F to 100°F (-26°C to 38°C)	Shell Tellus T46, Petro-Canada Hydrex MV46	
Arctic Hydraulic Oil	-40°F to 100°F (-40°C to 38°C)	Esso/Mobil UNIVIS HVI 26, Petro-Canada Hydrex Extreme	
Biodegradable Hydraulic Oil	-20°F to 90°F (-29°C to 32°C)	Shell Naturelle HF-E 46	
Hydraulic Tank Capacity		30.4 gal (115 L)	
Standard Gear Oil	-20°F to 115°F (-29°C to 45°C)	SAE 80W-90 API GL-5	
Arctic Gear Oil	-40°F to 115°F (-40°C to 45°C)	Duratran XL Synthetic Oil	
Gear Oil Capacity		10 gal (38 L)	

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3.27 SGE Platform Control Wiring Diagram



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5.5-7 Deutz TD2.9L Fault Codes

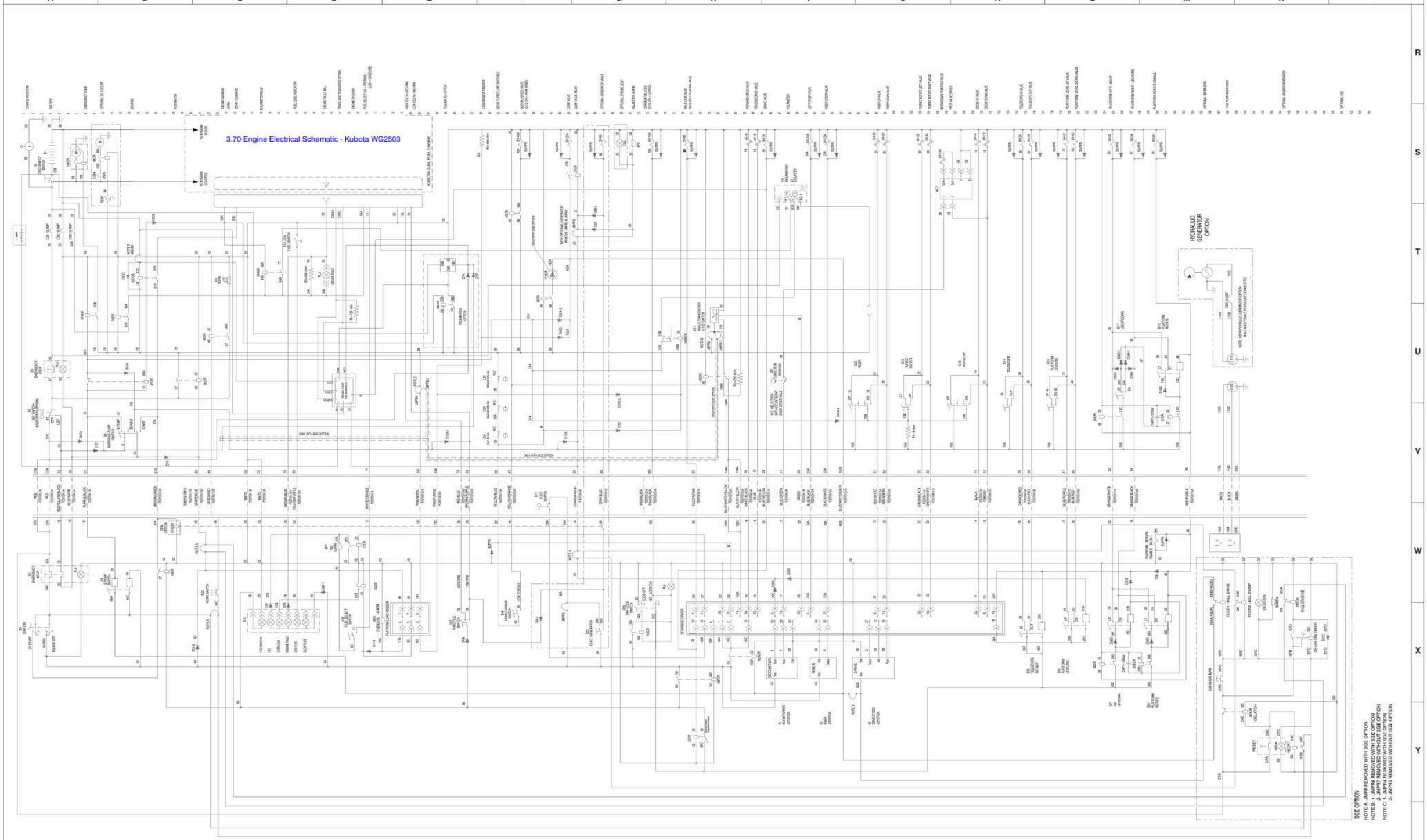
Code	SPN	FMI	Blink Code	Error Identification
1677	524106	9	1-9-5	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw1 (EGR actuator)
1678	524107	9	9-3-1	Timeout error of CAN-Receive-Frame ComRxEGRMsFlw2 (EGR actuator).
1679	524109	9	9-3-3	Timeout error of CAN-Receive-Frame ComRxEGRTVActr (EGR actuator).
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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3.65 Electrical Schematic - CE - Kubota WG2503 (S/N 9530178 and below)

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