SKYJACK

SERVICE MANUAL

SJ63 AJ+, SJ63 AJ

ARTICULATING BOOMS



229043AGA
September 2025
ANSI/CSA, CE, AS

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Table 2.8 Maximum Platform Capacity

	SJ63 AJ+ ANSI/CSA				SJ63 AJ CE & AS
	High Capacity Zone		Low Capacity Zone		
	without attachment	with attachment	without attachment	with attachment	
Total Capacity*	454 kg (1000 lb)	454 kg (1000 lb)	300 kg (660 lb)	272 kg (600 lb)	227 kg (500 lb)
	3 Persons	1 Person	2 Person	1 Person	2 Persons
Maximum Wind	12.5 m/s (28 mph)	12.5 m/s (28 mph)	12.5 m/s (28 mph)	12.5 m/s (28 mph)	12.5 m/s (28 mph)
Maximum Side Force	400N (90 lb)	400N (90 lb)	200 N (45 lb)	200 N (45 lb)	400N (90 lb)
Tilt cutout setting side-to-side x front-to-back	5° x 5°		5° x 5°		5° x 5°

2044AB

⚠ WARNING

*** DRIVING ON A SLOPE**

- **When driving on a slope greater than 30%, the platform capacity is limited to 136 kg (300 lb).**
- **The platform must be between the non-steer wheels and must be on the downside of the hill.**
- **When the slope increases to above 45%, the forward drive is disabled but reverse drive remains active.**

Table 2.9 Tire Specifications

	SJ63AJ
Tire Size	355/55 D625
Pressure	Air/Foam Filled
Tire Ply Rating	14
Wheel Nuts Torque	290 ft-lb (393.2 Nm)

1407AA

⚠ WARNING

Do not use tires other than those specified for this machine. Do not mix different types of tires. Tires other than those specified can adversely affect stability. Failure to operate with matched, approved tires in good condition can result in death or serious injury. Replace tires with the exact, Skyjack-approved types only.

⚠ IMPORTANT

For proper function of each axle differential, all four wheels must have same tire size installed at all times. Failure to comply with this requirement will reduce the life of the differentials and reduce overall mobility of the MEWP.

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9. Loose or broken wire #02 in main harness cable or its connectors.	**Check for continuity between pin #23 on main harness connector and rotate right/ jib down connector. Check for loose or corroded connections on cable connectors. Replace if wire is defective.**
10. Defective platform rotate right/ jib down valve coil 5H-34.	**Check continuity and resistance through coil. Replace if defective.**

4.3-26 No Jib Up from the Base Control Console

1. Loose or broken wire #10A from base terminal block to relay 36CR1.	**Check continuity. Replace if defective.**
2. Loose or broken wire #10C from relay 36CR1 to jib up switch S17.	**Check continuity. Replace if defective.**
3. Defective jib up switch S17.	**Check continuity through switch while activating jib up function between wires #10C and #35A. If no continuity found, replace switch.**
4. Loose or broken wire #35A from jib up switch S17 to diode D35A.	**Check continuity. Replace if defective.**
5. Open or defective diode D35A.	**Check diode. Replace if defective.**
6. Loose or broken wire #35 from diode D35A to platform rotate switch S16.	**Check continuity. Replace if defective.**

4.3-27 No Jib Down from the Base Control Console

1. Loose or broken wire #10A from base terminal block to relay 36CR1.	**Check continuity. Replace if defective.**
2. Loose or broken wire #10C from relay 36CR1 to jib down switch S17.	**Check continuity. Replace if defective.**
3. Defective jib down switch S17.	**Check continuity through switch while activating jib down function between wires #10C and #34A. If no continuity found, replace switch.**
4. Loose or broken wire #34A from jib down switch S17 to diode D34A.	**Check continuity. Replace if defective.**
5. Open or defective diode D34A.	**Check diode. Replace if defective.**
6. Loose or broken wire #34 from diode D34A to platform rotate switch S16.	**Check continuity. Replace if defective.**

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5.7-7 Deutz TD2.9L Fault Codes

Code	SPN	FMI	Blink Code	Error Identification
1439	524034	4	8-1-6	Disc separator; short circuit to ground.
1440	524030	7	8-1-5	EGR actuator; internal error.
1441	524031	13	8-1-5	EGR actuator, calibration error.
1442	524032	2	8-1-5	EGR actuator; status message "EGRCust" is missing.
1443	524033	7	8-1-5	EGR actuator; due to overload in Save Mode.
1455	3711	12	7-1-1	Temperature during stand-still main phase too low or too high.
1458	523960	0	7-7-1	High exhaust gas temperature EGR cooler downstream; warning threshold exceeded.
1464	0	0	-	
1466	0	0	-	
1467	0	0	-	
1469	0	0	-	
1470	0	0	-	
1471	0	0	-	
1472	0	0	-	
1481	524025	5	8-4-5	DPF system; operating voltage error.
1482	524044	9	1-8-8	CAN message ComMS_Sys7 not received from slave.
1484	524068	2	8-9-5	Master ECU and Slave ECU have been identified as the same types.
1485	524052	11	8-3-6	Master ECU and Slave ECU data sets or software are not identical.
1486	523718	5	6-7-6	SCR mainrelay; open load (only CV56B).
1488	523718	3	6-7-6	SCR mainrelay; short circuit to battery (only CV56B).
1489	523718	4	6-7-6	SCR mainrelay; short circuit to ground (only CV56B).
1661	524116	9	1-9-4	Timeout error of CAN-Transmit-Frame SCR2.
1662	524117	9	9-4-1	Timeout error of CAN-Transmit-Frame SCR3.
1663	524097	9	9-2-1	Timeout error of CAN-Transmit-Frame DPFBrnAirPmpCtl.
1664	524098	9	9-2-2	Timeout error of CAN-Transmit-Frame ComDPFBrnPT.
1665	524099	9	9-2-3	Timeout error of CAN-Transmit-Frame ComDPFC1.
1666	524100	9	9-2-4	Timeout error of CAN-Transmit-Frame ComDPFHisDat.
1667	524101	9	9-2-5	Timeout error of CAN-Transmit-Frame ComDPFTstMon.
1668	524105	9	9-2-9	Timeout error of CAN-Transmit-Frame ComEGRMsFlw (EGR Steller).
1669	524108	9	9-3-2	Timeout error of CAN-Transmit-Frame ComEGRTVActr (EGR actuator).
1670	524110	9	9-3-4	Timeout error of CAN-Transmit-Frame ComETVActrTO.
1671	524112	9	9-3-6	Timeout ComIntake Throttle Valve Actr.
1672	524118	9	9-4-2	Timeout error of CAN-Receive-Frame ComRxCM1.
1675	524103	9	9-2-7	Timeout error of CAN-Receive-Frame ComRxDPFBrnAirPmp.
1676	524104	9	9-2-8	Timeout error of CAN-Receive-Frame ComRxDPFCtl.

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Standstill Regeneration Stages

Standstill Lamps ❹	Engine Lamp ❺	Audible Alarm ❻	Engine Torque	Action Required
Flashes slowly	Off	Pulsates slowly	100%	Do the standstill operation at the next available opportunity, within 3 to 4 hours.
Flashes slowly	On	Pulsates slowly	75%	Do the standstill operation immediately.
Flashes quickly	Flashes	Pulsates quickly	40%	a. The standstill operation is no longer possible with on-machine controls. Contact an authorized repair facility.
				b. Failure to do the standstill has caused diesel particulate filter failure, and regeneration is no longer possible. Contact an authorized repair facility to replace the filter.

Do the Standstill Regeneration

1. Move the MEWP to an open, well-ventilated area, away from any flammable material. Park it on a firm level surface, and fully stow the MEWP.
2. While the engine runs, turn the off/base/platform switch ❼ on the base controls to the base position.
3. Move the standstill switch ❽ on the base controls to the right to start the standstill regeneration. The base functions will not operate while the standstill switch is turned on.
4. On the engine display module ❷ press and hold the middle button ❾ (below the regeneration symbol) for 7 seconds.

⚠ WARNING

Do not touch hot engine components. Serious injury can occur if you touch hot surfaces.

5. The engine display module changes to the Regeneration Ongoing symbol ❿, the standstill lights illuminate continuously, and the engine speed can change.
6. Standstill regeneration takes approximately 45 minutes. During this time you must not use the MEWP.

IMPORTANT

Complete the standstill regeneration fully. If you interrupt the process, the standstill request continues.

7. When the standstill regeneration is complete, the Regeneration Ongoing symbol changes to Regeneration Complete ⓫, the standstill lights ❸❹ go off, and the engine speed goes back to normal.
8. Move the standstill switch to the left. You can use the MEWP normally.

IMPORTANT

Only use the standstill regeneration override switch ⓬ on the front of the platform control box when absolutely necessary to move the MEWP to park it in a safe location when the derated engine torque/rpm prevents sufficient torque to drive the MEWP.

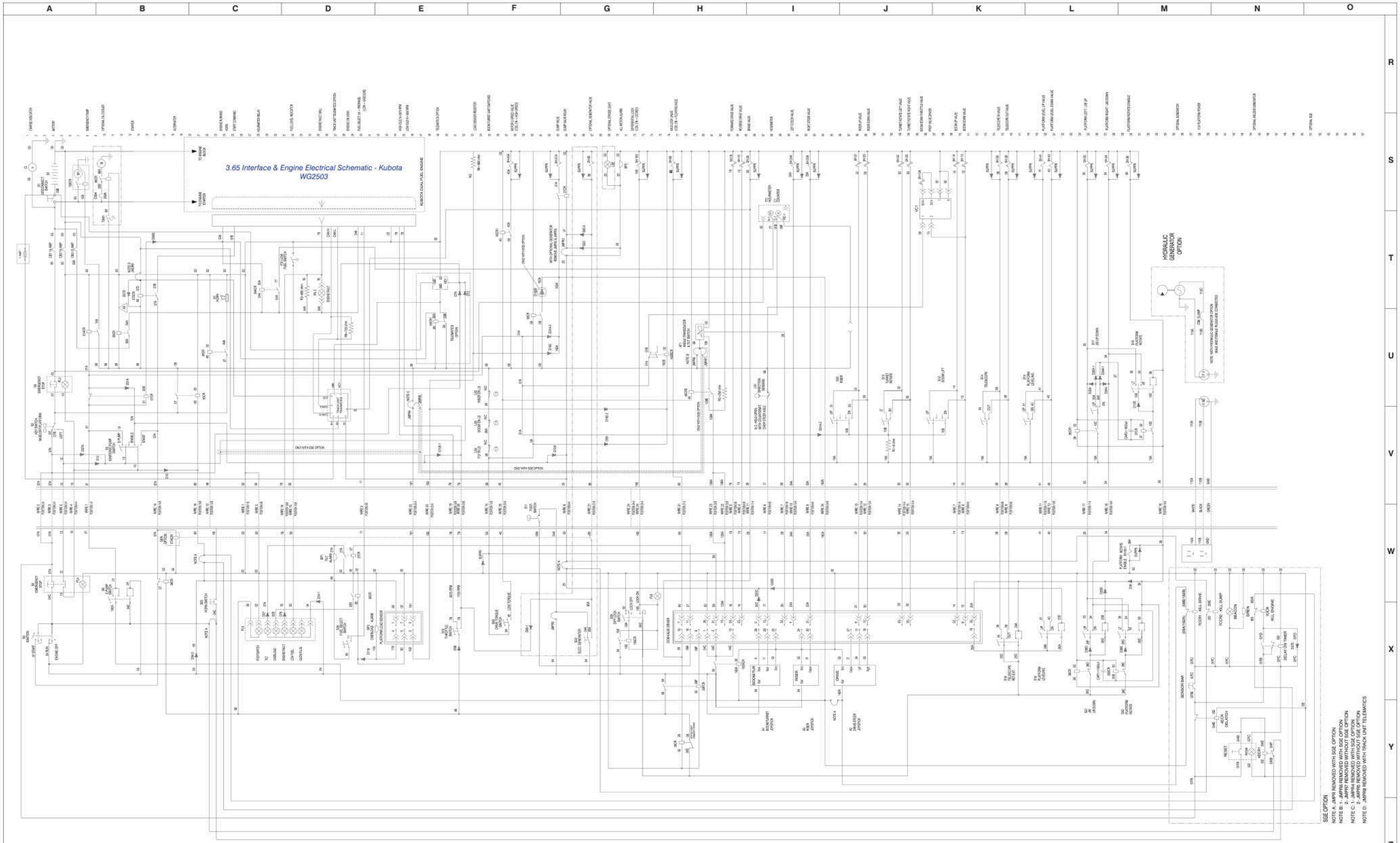
It temporarily (for approximately 30 minutes) restores full engine power and speed.

Use of the derate override switch can cause diesel particulate filter failure.

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3.61 Electrical Schematic - CE - Kubota WG2503

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