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Invoice #	
Date	7/27/2023

PO#	
Terms	10th of following month
Due Date	8/10/2023

## Service Invoice

Stock#	
Serial#	0300113521
Yr Make Model	2007 JLG E300AJ
Description	Electric boom lift
Hours	996.0

Memo

## Customer Service Issue # 1

Issue: Electrical issues

Fix: No functions - unit has three codes - canbus error - found plug at base not connected. Left hand speed sensor - plug not connected to controller - line contactor open - repaired a bunch of wires in the contactor panel. Unit still has open line contactor circuit. Check the wiring to contactor found no power to line contactor - has broken wire in harness. Ran jumper. Unit powers up, but will not lift - other hydraulic functions work. Add hydraulic oil tested wires components repaired wires - manual decent valve is very sloppy and lift cylinder hose is leaking. No power to level up solenoid has continuity to controller. Powered solenoid up. Unit still will not lift. Hooked up hydraulic gauge lift has zero psi - telescope is 2000 psi reviewed hydraulic and electrical schematic found wiring to four valves at hydraulic block are swapped around connected correctly - all functions working from base and from platform. Upper lift/Drive and steer not working. Wiring on steer manifold incorrect re-correct - joystick for lift swing joystick not plugged into controller, Reconnected, working unit drives with right tire. Left tire is locked up, release left brake unit drives forward, switch sticks on and won't release unless foot switch is released unit needs joystick, left hand, brake assembly wire, harness, and hydraulic hoses. Installed new brake assy, joystick and lowering valve. Replaced leaking hyd hose. Found code is due to speed sensor being bad, ordered sensor. Replaced wiring harness. Installed and adjusted speed sensor on the right hand side - unit spins right hand wheel and when stopping left hand brake locks up has speed sensor errors. Neither sensor is reading on analyzer. Installed OEM sensors and adjusted - working ok.

Note:

Mech	Type	Description	Total
53	Labor	Shop Labor	Shop Labor
	Item	SW180B-541PMAM	CONTACTOR ALBRIGHT
	Misc.	S & H	
	Item	HYDOIL-SF	OIL UTF/QT
	Item	0920113	BRAKE MICO DRY
	Item	1001178132	CONTROL JOYSTICK
	Item	4922238	HARNESS
	Item	7012947	CARTRIDGE MANUAL DECENT
	Item	7012949	KNOB
	Item	04U-504	JIC MALE RIGID - 1/4" HOSE, 1/4" CONNECTION
	Item	04U-504	JIC MALE RIGID - 1/4" HOSE, 1/4" CONNECTION
	Item	4R16	HOSE 1/4" HYDRAULIC
	Item	3990105	SPEED SENSOR
	Misc.	MSC	Shop Supplies

Printed:2/20/2024 9:37 AM

