NEW HOLLAND
SF110
SF115

REPAIR
MANUAL



87045631

11/04

MidWestTech | New Holland SF110, SF115 Field Sprayer Service Manual | Publication 87045631

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This Section covers all the functions related to moving the machine, including tracks, wheels, steering and braking. It covers all the axles both driven axles and non-driven axles, including any axle suspension.

SECTION F, FRAME POSITIONING

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This Section covers all the main functions and systems related to the positioning of the machine frame or to positioning the attachment on the supporting machine frame.

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This Section covers all the functions related to the articulated or single arms mounted on the front or rear of the machine. A working arm can have various tools and quick couplers mounted on to it.

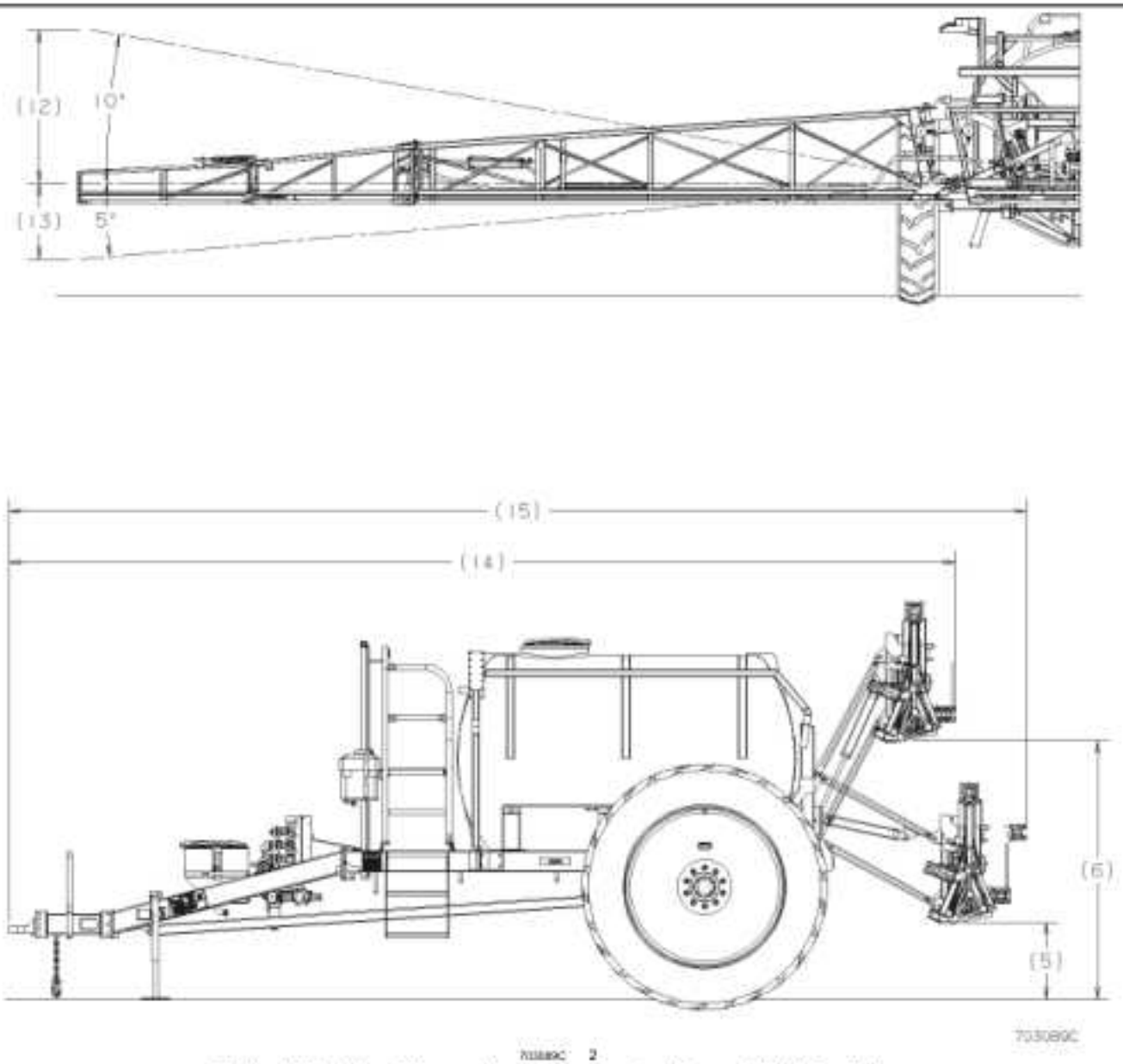
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SPRAYING End marker SF110, SF115	L.20.D

This Section covers all the field processing functions of the machine.

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Typical Machine Dimensions - Suspended Boom Field Position

Machine Dimensions	Boom Width			
	18.29 m (60 ft)	21.34 m (70 ft)	24.38 m (80 ft)	27.43 m (90 ft)
Tilt Up (12)	142.0 cm	165.8 cm	194.9 cm	218.8 cm
	55.9 in	65.3 in	76.8 in	86.1 in
Tilt Down (13)	71.3 cm	83.2 cm	97.8 cm	109.8 cm
	28.1 in	32.8 in	38.5 in	43.2 in
Maximum Length (14)	706.3 cm	706.3 cm	757.1 cm	757.1 cm
	278.1 in	278.1 in	298.1 in	298.1 in
Minimum Length (15)	653.4 cm	653.4 cm	704.2 cm	704.2 cm
	257.3 in	257.3 in	277.3 in	277.3 in

*Boom height will change with axle selection, tire pressure, options, etc.

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Command - Troubleshooting (L.20.A.05 - G.40.A.10)

SF110, SF115

IMPORTANT: *The Control Unit is designed for use on* ***12 volts*** *systems only. Damage may result if the unit is connected to a system with voltage greater than* ***18 volts****. Under no circumstances should a fuse larger than* ***15 amps*** *be installed as damage to the control unit and/or wiring may result.*

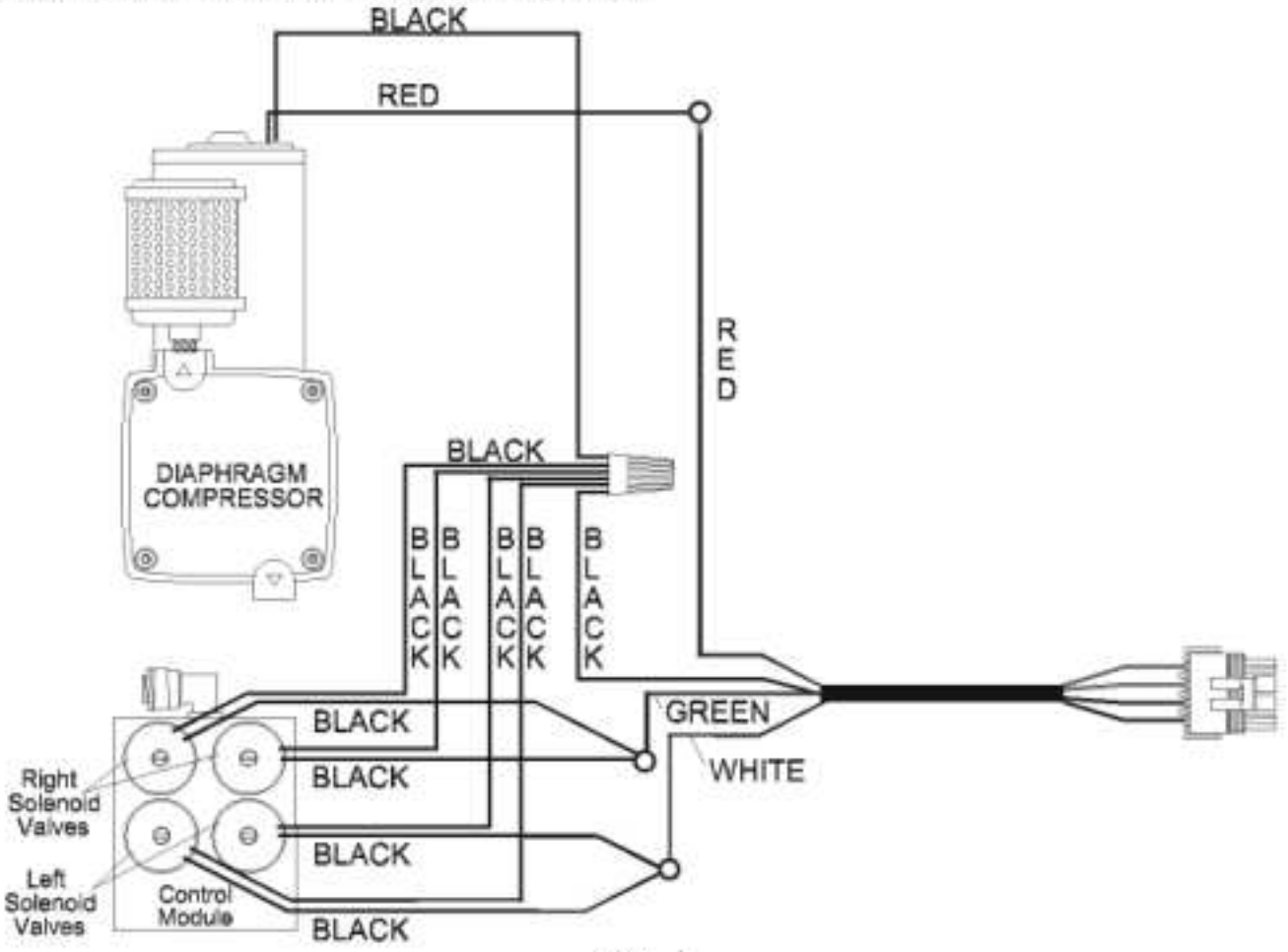
Problem	Possible Cause	Correction
No Power - Boom indicator lamps off	Master switch is off.	Turn on master switch.
	Power cable reverse polarity.	Correct power connections.
	Fuse blown.	Check the wiring harness for shorts and repair any damage before replacing the fuse. Never use a fuse larger than **20 amps** in the wiring harness.
	Dead battery.	Check tractor battery and replace as required.
	Faulty cable connection.	Refer to diagram for your controller.
	The control unit has failed.	Repair or replace as required.
Regulator Valve is Ineffective	Regulator valve is installed at the wrong location.	Refer to the plumbing connection diagrams for proper location.
	Regulator valve improperly set up.	Refer to the Six Switch Operator's Manual for set-up instructions.
	Faulty cable or connection.	Check cable or connection
	Check valve installed backwards.	Re-install check valve to allow flow from regulator to tank.
	Failed regulator valve.	Replace valve.
Electric ball valve will not work.	Voltage too low.	Check voltage to ensure that the system is producing **12 volts**.
	Hex bolts are too tight.	Check the hex bolts on the valve to make sure that they are not too tight. Adjust to **1.7 Nm (15 lb in)**.
	Faulty cables or connections.	Check cables and connections.
	Failed electric ball valve.	Replace as required.
Incorrect Pressure	Pressure sensor in wrong location.	Refer to pluming connection diagrams for correct location.
	Faulty cables or connections	Check cables and connections.
	Failed pressure sensor.	Replace pressure sensor.
Display reads 888 and shows kPa and psi symbols.	No pressure sensor connected.	Refer to plumbing connection diagram for sensor connections.
	Faulty pressure sensor connection.	Check cables.
	Failed pressure sensor.	Replace pressure sensor as required.

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Foam Control box - Electrical schema (L.20.D.20.85 - C.20.A.40)

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This compressor is supplied with the second serial range.



Power Unit Wiring Diagram

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