67/67XL Sprayer

Service Manual

SQ-044V1 1/05

MidWestTech | New Holland Flexicoil 67, 67XL Sprayer Service Manual | Publication SQ-044V1

Order the manual at mid-west-tech.com >

Contents

INTRODUCTION

Legal advice (- A.10.A.10) 3
67, 67XL

Foreword (- A.10.A.40) 4
67, 67XL

Safety rules (- A.50.A.10) 10
67, 67XL

Decals (- A.50.A.30) 16
67, 67XL

Decals (- A.50.A.30) 19
67, 67XL

Torque (- A.90.A.10) 22
67, 67XL

Basic instructions (- A.90.A.05) 24
67, 67XL

Basic instructions (- A.90.A.05) 25
67, 67XL

Conversion factors (- A.92.A.21) 27
67, 67XL

Abbreviation (- A.92.A.20) 29
67, 67XL

General specification (- A.92.A.10) 31
67, 67XL

Dimension (- A.92.A.30) 33
67, 67XL

Dimension (- A.92.A.30) 36
67, 67XL

Weight (- A.92.A.40) 39
67, 67XL

Weight (- A.92.A.40) 41
67, 67XL

Product identification (- A.80.A.10) 42
67, 67XL

Product identification (- A.80.A.10) 43
67, 67XL

Product identification (- A.80.A.10) 44
67, 67XL

Product identification (- A.80.A.10) 45
67, 67XL

Product identification (- A.80.A.10) 46
67, 67XL

Product identification (- A.80.A.10) 47
67, 67XL

Part identification (- A.80.A.20) 48
67, 67XL

MidWestTech | New Holland Flexicoil 67, 67XL Sprayer Service Manual | Publication S... Order the manual at mid-west-tech.com >

Chapters

Each Chapter is identified by a letter and number combination e.g. Spraying L.20.A. The first letter is identical to the Section letter i.e. Chapter L.10.a is inside Section L, Field Processing. The Chapter Contents lists all the "Technical Data" (specifications), "Functional Data" (how it works), "Service Data" (remove, install adjust, etc..) and "Diagnostic Data" (fault codes and troubleshooting) that have been written in that Chapter for that function or system on the machine.

Contents

FIELD PROCESSING - L
SPRAYING - 20.A
TECHNICAL DATA
Electronic Control - Calibration (L20.A - D30.A10) 6
67 FlexControl, 67XL FlexControl
FUNCTIONAL DATA
Command
Command - Detailed View (L.20.A.05 - C.10.A.50) 12
67 3 Switch Controller, 67XL 3 Switch Controller
SERVICE
Windscreen
Windscreen - Assemble (L.20.A.10 - F.10.A.20) 48
67 Wheeled Boom, 67XL Wheeled Boom
DIAGNOSTIC
SPRAYING - Incorrect alignment (L.20.A - G.20.C.32) 64
67 Wheeled Boom, 67XL Wheeled Boom

The Chapter Index lists in alphabetical order all the types of information (called Information Units) that have been written in that Chapter for that function or system on the machine.

Contents

FIELD PROCESSING - L
Command - Detailed View (L.20.A.05 - C.10.A.50) 12
67 3 Switch Controller, 67XL 3 Switch Controller
Command - Detailed View (L.20.A.05 - C.10.A.50) 18
67 6 Switch Controller, 67XL 6 Switch Controller
Command - Electrical Schema (L.20.A.05 - C.20.A.40) 22
67 6 Switch Controller, 67XL 6 Switch Controller
Command - Exploded view (L.10.A.05 - C.10.A.20) 14
67 6 Switch Controller, 67XL 6 Switch Controller

Information Units and Information Search

Each chapter is composed of information units. Each information unit has the ICE code shown in parentheses which indicates the function and the type of information written in that information unit. Each information unit has a page reference within that Chapter. The information units provide a quick and easy way to find just the right piece of technical information you are looking for.

example information unit	Stack valve - Sectional View (A.10.A.18 - C.10.A.30)				
Information Unit ICE code	A	10.A	18	C	10.A.30
ICE code classification	Distribution systems	Primary hydraulic power	Stack valve	Functional data	Sectional view

MidWestTech | New Holland Flexicoil 67, 67XL Sprayer Service Manual | Publication S... Order the manual at mid-west-tech.com >

Contents

DISTRIBUTION SYSTEMS - A

LIGHTING SYSTEM - 40.A

FUNCTIONAL DATA

LIGHTING SYSTEM - Exploded view (A.40.A - C.10.A.20) 3
67 Wheeled Boom, 67XL Wheeled Boom

LIGHTING SYSTEM - Exploded view (A.40.A - C.10.A.20) 5
67 Wheeled Boom, 67XL Wheeled Boom

LIGHTING SYSTEM - Electrical schema (A.40.A - C.20.A.40) 8
67 Wheeled Boom, 67XL Wheeled Boom

LIGHTING SYSTEM - Exploded view (A.40.A - C.10.A.20) 9
67 Suspended Boom, 67XL Suspended Boom

LIGHTING SYSTEM - Exploded view (A.40.A - C.10.A.20) 10
67 Suspended Boom, 67XL Suspended Boom

LIGHTING SYSTEM - Electrical schema (A.40.A - C.20.A.40) 13
67 Suspended Boom, 67XL Suspended Boom

MidWestTech | New Holland Flexicoil 67, 67XL Sprayer Service Manual | Publication S... Order the manual at mid-west-tech.com >

Weight (- A.92.A.40)

67, 67XL

Model 67 Field Sprayer Weights - Wheeled Boom

SIZE		Hitch	Cart Axle	6 Section Inner Casters	Locking Casters	4 or 6 Section Outer Casters	Total
2 Section **21.3 m** (**70 ft**) Empty	1	**118 kg**	**1643 kg**	-	**659 kg**	-	**2420 kg**
		260 lb	**3615 lb**	-	**1450 lb**	-	**5325 lb**
	2	**136 kg**	**1707 kg**	-	**727 kg**	-	**2570 kg**
		300 lb	**3755 lb**	-	**1600 lb**	-	**5655 lb**
2 Section **21.3 m** (**70 ft**) Full Water	1	**607 kg**	**5018 kg**	-	**659 kg**	-	**6284 kg**
		1335 lb	**11040 lb**	-	**1450 lb**	-	**13825 lb**
	2	**823 kg**	**5316 kg**	-	**727 kg**	-	**6866 kg**
		1810 lb	**11695 lb**	-	**1600 lb**	-	**15105 lb**
2 Section **21.3 m** (**70 ft**) **80 %** Full Fertilizer	1	**618 kg**	**5100 kg**	-	**659 kg**	-	**6377 kg**
		1360 lb	**11220 lb**	-	**1450 lb**	-	**14030 lb**
	2	**836 kg**	**5398 kg**	-	**727 kg**	-	**6961 kg**
		1840 lb	**11875 lb**	-	**1600 lb**	-	**15315 lb**
4 Section **30.5 m** (**100 ft**) Empty	1	**118 kg**	**1643 kg**	-	**659 kg**	**418 kg**	**2838 kg**
		260 lb	**3615 lb**	-	**1450 lb**	**920 lb**	**6245 lb**
	2	**136 kg**	**1707 kg**	-	**727 kg**	**473 kg**	**3043 kg**
		300 lb	**3755 lb**	-	**1600 lb**	**1040 lb**	**6695 lb**
4 Section **30.5 m** (**100 ft**) Full Water	1	**607 kg**	**5018 kg**	-	**659 kg**	**418 kg**	**6702 kg**
		1335 lb	**11040 lb**	-	**1450 lb**	**920 lb**	**14745 lb**
	2	**823 kg**	**5316 kg**	-	**727 kg**	**473 kg**	**7339 kg**
		1810 lb	**11695 lb**	-	**1600 lb**	**1040 lb**	**16145 lb**
4 Section **30.5 m** (**100 ft**) **80 %** Full Fertilizer	1	**618 kg**	**5100 kg**	-	**659 kg**	**418 kg**	**6795 kg**
		1360 lb	**11220 lb**	-	**1450 lb**	**920 lb**	**14950 lb**
	2	**836 kg**	**5398 kg**	-	**727 kg**	**473 kg**	**7434 kg**
		1840 lb	**11875 lb**	-	**1600 lb**	**1040 lb**	**16355 lb**
6 Section **39.6 m** (**130 ft**) Empty	1	**118 kg**	**1643 kg**	**659 kg**	**659 kg**	**418 kg**	**3497 kg**
		260 lb	**3615 lb**	**1450 lb**	**1450 lb**	**920 lb**	**7695 lb**
	2	**136 kg**	**1707 kg**	**727 kg**	**727 kg**	**473 kg**	**3770 kg**
		300 lb	**3755 lb**	**1600 lb**	**1600 lb**	**1040 lb**	**8295 lb**
6 Section **39.6 m** (**130 ft**) Full Water	1	**607 kg**	**5018 kg**	**659 kg**	**659 kg**	**418 kg**	**7361 kg**
		1335 lb	**11040 lb**	**1450 lb**	**1450 lb**	**920 lb**	**16195 lb**
	2	**823 kg**	**5316 kg**	**727 kg**	**727 kg**	**473 kg**	**8066 kg**
		1810 lb	**11695 lb**	**1600 lb**	**1600 lb**	**1040 lb**	**17745 lb**
6 Section **39.6 m** (**130 ft**) **80 %** Full Fertilizer	1	**618 kg**	**5100 kg**	**659 kg**	**659 kg**	**418 kg**	**7454 kg**
		1360 lb	**11220 lb**	**1450 lb**	**1450 lb**	**920 lb**	**16400 lb**
	2	**836 kg**	**5398 kg**	**727 kg**	**727 kg**	**473 kg**	**8161 kg**
		1840 lb	**11875 lb**	**1600 lb**	**1600 lb**	**1040 lb**	**17955 lb**

1 - Includes pump, nozzles, 14.9-24 tires and axles only. 2- Includes all of 1 plus windscreen and fresh water tank (no markers or hydraulic unfold). To calculate the weight for other sizes use **31 kg** per **m** (**18 lb** per **ft**) for boom weight.

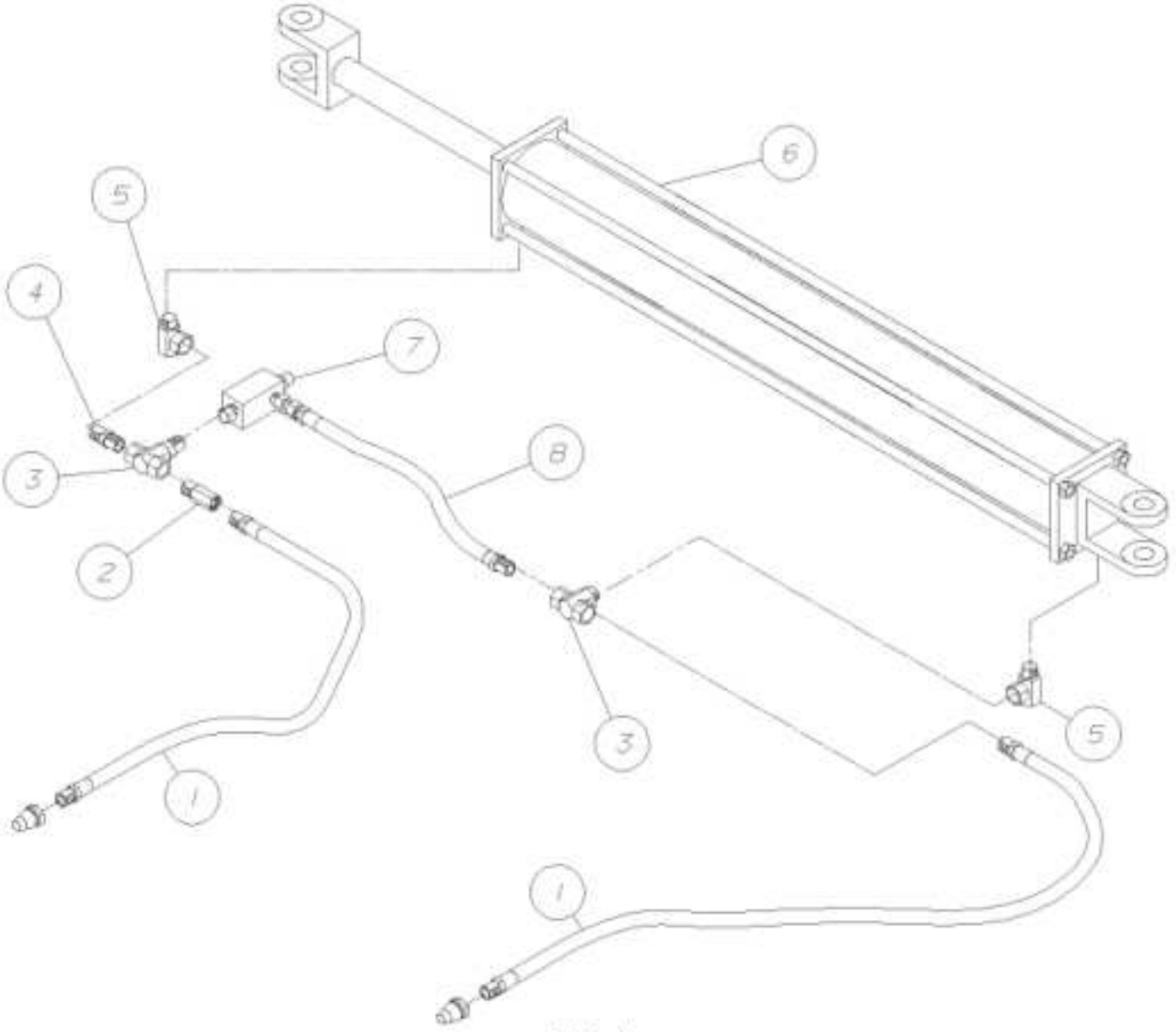
MidWestTech | New Holland Flexicoil 67, 67XL Sprayer Service Manual | Publication S... Order the manual at mid-west-tech.com >

BOOM Unfold - Hydraulic schema (H.20.G - C.20.A.20)

67 Wheeled Boom, 67XL Wheeled Boom

This schematic is valid for serial ranges

- S67.A000-U083301 to S67.A000-U090324
- S67XLT.A-U083501 to S67XLT.A-U090103
- S67XL.A0-U085009 to S67XL.A0-U0903121
- S67XL-095403 to S67XL-095501



701629C 1

Hydraulic Fold-Out Schematic Updated with Pressure Release Valve

REF	DESCRIPTION	REF	DESCRIPTION
1	HOSE HYD **.375 in** x **306 in** FL	5	FITTING 90 DEG, **.75 in 16 in** MORB **.5 in** FPT
2	FIT STL **.5 in** MB **.5 in** FPX	6	HYD CYLINDER **3 in** x **24 in 3000 psi** (2 Section)
			HYD CYLINDER **4 in** x **24 in 3000 psi** (4 and 6 Section)
3	FIT STL T **.5 in**PX x **.5 in**FPX x **.5 in**MP	7	VALVE HYD RELIEF **2750 psi**
4	FIT STL **.5 in**MP **.5 in**MP	8	HOSE HYD **.375 in** x **26 in** FL

MidWestTech | New Holland Flexicoil 67, 67XL Sprayer Service Manual | Publication S... Order the manual at mid-west-tech.com >

SPRAYING Plumbing system - Troubleshooting (L.20.B - G.40.A.10)

67, 67XL

⚠ CAUTION ⚠

M252A - Hydraulic fluid escaping under pressure can have enough force to penetrate the skin. Hydraulic fluid may also infect a minor cut or opening in the skin. If injured by escaping fluid, see a doctor at once. Serious infection or reaction can result if medical treatment is not given immediately. Make sure all connections are tight and that hoses and lines are in good condition before applying pressure to the system. Relieve all pressure before disconnecting the lines or performing other work on the hydraulic system. To find a leak under pressure use a small piece of cardboard or wood. Never use hands.

IMPORTANT: *Never run a centrifugal pump dry for more than a few seconds. Fluid is required at all times to cool pump preventing pump seal damage. If pump will not prime or runs out of fluid, shut off promptly.*

Problem	Possible Cause	Correction
Loss of pressure or low pressure.	Improper valve positioning.	Supply, agitation, and tank return valves are to be open. All remaining hand valves should be closed.
	Leaks in suction line or line fittings.	These are hard to find because air is drawn inward. The leaks typically occur at joints, so check joints and tighten clamps.
	Kinked or collapsed suction hose.	Ensure that the suction hose is clear.
	Obstruction of suction of discharge line.	Rotten lining in an old hose may pull loose and clog passage. If an old hose is suspected, remove and replace as needed.
	Faulty pressure gauge.	Replace pressure gauge.
	Worn nozzle tips leading to increased flow and reducing pressure.	Check nozzle flow and sprayer calibration. Replace nozzles as required.
	Air lock in volute casing.	open drain valve at top of volute casing to bleed off air.
	Pump running too slowly (hydraulic pump only).	Reset hydraulic oil bypass to reset pressure.
	Pump drive belt slippage (PTO pump only).	Check pulley alignment and adjust as needed.
	Impeller stuck or clogged.	Remove volute casing and check for a foreign object in impeller. Rotate impeller to check that it moves freely.
	Venturi supply valve is open.	Close venturi supply valve.
	Insufficient motor speed on pump (hydraulic pump only).	Adjust motor speed.
	Insufficient PTO speed on pump (PTO pump only).	Set tractor engine rpm to PTO speed.
	Oil transfer restriction at hydraulic couplers.	Check that couplers are clean and in good condition. Replace if necessary.
	Suction line restriction.	Check for kinked suction hose, leaking suction line hose or fittings, or clogged strainers.
	Agitation flow too high.	Check agitators for correct orifice size.
	Electric regulator valve open.	Operate switch on remote control box to close valve.
	Hydraulic motor is incompatible with tractor hydraulic system- Hydraulic Pump Only.	Check with your sprayer dealer for the pump required to match your tractor.
	Air has entered suction system.	Open valve at top of pump to bleed off air.
	Improper valve positioning.	Supply, agitation, and tank return valves must be open. All other valves must be closed.
	Venturi supply valve open.	Close venturi supply valve.
Erratic, unstable pressure.	Pump drive belt slippage.	Check for alignment of sheave and drive belt tension idler.

MidWestTech | New Holland Flexicoil 67, 67XL Sprayer Service Manual | Publication S... Order the manual at mid-west-tech.com >