

LMC AG 1400 Series Sprayer

Owner's Manual



Manufacturer:

LMC AG

1715 South Slappey Blvd Albany, GA 31701

229-639-1775

Manual Version: 1.0

Date: [3/19/26

1. INTRODUCTION

Thank you for purchasing the **LMC AG 1400 Series Pull-Type Sprayer**. This equipment is designed for efficient, reliable application of herbicides, pesticides, and liquid fertilizers.

This manual provides essential information for:

- Safe operation
- Proper setup
- Maintenance and service
- Troubleshooting

IMPORTANT: Read and understand this manual before operating the sprayer.

2. SAFETY INFORMATION

Signal Words

- **WARNING** – Could result in serious injury or death
- **CAUTION** – May result in minor injury or equipment damage

General Safety Guidelines

- Never operate equipment without reading owner's manual entirely
- Keep all guards and shields in place
- Do not allow riders on the sprayer
- Stay clear of moving parts
- Always disengage PTO before servicing

Chemical Safety

- Always follow chemical manufacturer labels and guidelines
 - Wear PPE: gloves, goggles, respirator when required
 - Avoid spray drift and exposure caused by wind or high ground speed
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3. PRODUCT IDENTIFICATION

Machine Description

The **LMC AG 1400 Series Sprayer** is a pull-type agricultural sprayer designed for field and pasture applications.

Key Features

- 300- or 500-gallon poly tank options
- PTO-driven **Roller Pumps 6900/8900 Series**
 - Blue pump is a standard pump and is not meant to be used with roundup or liquid fertilizers
 - Silver series is used for roundup and liquid fertilizers
- Boom or boomless spray configurations
- Adjustable spray coverage

Serial Number Location


Serial number is located on the tongue of the unit close to the hitch for the tractor


4. SPECIFICATIONS

Tank Capacity	300/500 Gallons
Pump Type	Roller Pump (6900 / 8900 Series)
Drive Type	PTO Driven
Boom Option	4/6/8 Row (12/18/24 ft)
Boomless Option	30–35 ft Total coverage

Spray Components

- Boomless Nozzles:
 - UDOR 1250 Nozzle
 - UDOR 1400 Nozzle

1250L / 1250R Left or Right  1/4" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)						
				2	3	4	5	6	7	
				GALLONS PER ACRE						
20	1.5	16 ft.	23	16	12	9	8	7		
30	1.7	16 ft.	26	18	13	11	9	8		
40	2.0	16 ft.	31	21	16	12	10	9		

1400L / 1400R Left or Right  1/4" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)											
				2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
20	1.7	17 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4		
30	2.0	17 ft.	30	20	15	13	10	9	7	6.5	6	5.5	5		
40	2.5	17 ft.	36	24	18	15	12	10	9	8	7	6.5	6		

- 12' 18' 24' Boom options nozzles
 - 80025 VP Poly Spray Tips (20" Spacing)
 - 8003 VP Poly Spray Tips (20" Spacing)
 - 8004 VP Poly Spray Tips (20" Spacing)

Nozzle Type	PSI	18" Spacing										GPM
		110°XR/XRC	TT	TTJ60	AIXR	AI3070	AITTJ60	110°AI/AIC	TTI60	TTI		
		15-60 PSI	15-90 PSI	20-90 PSI	15-90 PSI	20-90 PSI	20-90 PSI	30-115 PSI	20-100 PSI	15-100 PSI		
025 AI AIC AIXR TT TTI TTI60 XR XRC (50)	20	M	VC	VC	VC	XC	XC	—	UC	UC	0.18	14.9
	30	M	C	C	VC	VC	VC	XC	XC	UC	0.22	18.2
	40	F	M	M	M	C	VC	VC	XC	XC	0.25	21
	50	F	M	M	M	C	VC	VC	XC	XC	0.28	23
	60	F	M	M	M	C	C	VC	VC	XC	0.31	26
	70	—	M	M	M	C	C	VC	VC	VC	0.33	27
AI3070 AITTJ60 TTJ60 (100)	80	—	F	M	M	M	C	C	C	VC	0.35	29
	90	—	F	M	M	M	C	C	C	VC	0.38	31
	20	M	VC	VC	VC	XC	XC	—	UC	UC	0.21	17.3
	30	M	C	C	VC	VC	XC	XC	XC	UC	0.26	21
	40	F	M	C	C	C	VC	VC	XC	XC	0.30	25
	50	F	M	M	C	VC	VC	VC	XC	XC	0.34	28
03 AI AIC AIXR AITTJ60 AI3070 TT TTI TTI60 XR XRC (50)	60	F	M	M	M	C	C	VC	XC	XC	0.37	31
	70	—	M	M	M	C	C	VC	VC	VC	0.40	33
	80	—	F	M	M	C	C	C	VC	VC	0.42	35
	90	—	F	M	M	M	C	C	C	VC	0.45	37
	20	M	VC	VC	VC	XC	XC	—	UC	UC	0.28	23
	30	M	C	C	VC	VC	XC	XC	UC	UC	0.35	29
04 AI AIC AITTJ60 AIXR AI3070 TT TTI TTI60 TTJ60 XR XRC (50)	40	M	M	C	C	C	VC	VC	XC	XC	0.40	33
	50	F	M	M	C	VC	VC	VC	XC	XC	0.45	37
	60	F	M	M	C	C	C	VC	XC	XC	0.49	40
	70	—	M	M	M	C	C	VC	VC	VC	0.53	44
	80	—	F	M	M	C	C	C	VC	VC	0.57	47
	90	—	F	M	M	C	C	C	VC	VC	0.60	50

5. ASSEMBLY & SETUP

Initial Setup

1. Attach sprayer to tractor drawbar using proper pull pin and safety chains
2. Connect PTO pump & chain securely
3. Fill tank with clean water for testing
4. Test system prior to adding chemical
5. Check all hose connections for leaks

Pre-Operation Checklist

- PTO pump secured and chain is connected to a fixed object such as a drawbar or frame support
 - Hoses tight and leak-free
 - Nozzles clean and installed correctly
 - Strainer clean of any debris or material
 - Tank properly filled
 - Pressure gauge functioning
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6. OPERATING INSTRUCTIONS

Starting Operation

1. Ensure tractor is at idle
2. Engage PTO
3. Increase engine speed gradually
4. Set desired spray pressure using regulator
5. Turn on spray using manual or electric control switch

Boom Operation (12 ft /18 ft /24 ft)

- Maintain consistent travel speed
- Ensure even nozzle spacing and boom height
- Adjust pressure for proper coverage

Boomless Operation (30–35 ft)

- Use appropriate nozzle calibration
- Maintain correct pressure for full pattern
- Avoid excessive wind to prevent drift

Best Practices

- Spray in low wind conditions
 - Maintain consistent speed
 - Calibrate regularly for accuracy
 - Do not engage PTO at high RPM
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7. MAINTENANCE & SERVICE

Daily Maintenance

- Rinse tank after each use
- Inspect hoses and fittings
- Check pump for leaks

Weekly Maintenance

- Inspect nozzles for wear or clogging
- Check pump rollers for wear or lessness and tighten setscrew if needed

Seasonal Maintenance

- Flush system thoroughly and winterize at the end of the season
- Replace worn nozzles to prevent deformation of spray pattern
- Inspect and service pump if needed
- Inspect and service wheel hubs and tighten lugs bolts as needed

Storage

- Drain all fluids
- Store indoors or under shelter when possible
- Protect from freezing with pink biosafe antifreeze
- Remove all electric controllers and place indoors

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Low pressure	Worn pump rollers	Replace rollers
Uneven spray	Clogged nozzle	Clean or replace nozzle
Pump not priming	Air leak in suction line	Tighten connections
No spray output	PTO not engaged	Engage PTO

9. PARTS & SERVICE

For replacement parts, contact your LMC **AG**.

Provide:

- Model number
 - Serial number
 - Part description
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10. WARRANTY

1 Year warranty on all components

Typical coverage includes:

- Manufacturer defects
 - Limited time coverage
 - Excludes wear parts and misuse
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11. DEALER SUPPORT

For service, parts, or support:

LMC AG

229-639-1775

12. NOTES