Predelivery Instructions

CF500 and CF600
Hydraulic Cross-Fold Boom

Great Plains
Manufacturing, Inc.
www.greatplainsmfg.com

Read this manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover illustration may show optional equipment not supplied with standard unit.
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Important Safety Information

For your safety, thoroughly read “Important Safety Information” and “Operating Instructions” in the operator’s manual before proceeding.

Safety Notations

The SAFETY ALERT SYMBOL indicates that there is a potential hazard to personal safety involved and extra safety precautions must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Watch for the following safety notations throughout this manual.

⚠️ DANGER!

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

⚠️ WARNING!

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠️ CAUTION!

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Safety Rules

Most accidents are the result of negligence, carelessness or failure to follow safety precautions. Though your implement is designed with many built-in safety features, safety precautions are mandatory to prevent accidents.
Introduction

Great Plains Manufacturing wants you to be satisfied with any new machine delivered by the Great Plains Trucking network. To ease the assembly task and produce a properly working machine, read this entire manual before assembling or setting up new equipment.

Description of Unit

The CF500 and CF600 are a non-turf type, cross-folding sprayer booms. The booms unfold hydraulically to an operating width of 50 or 60 feet. The booms can be mounted on a Great Plains trailer sprayer, three-point sprayer or three-point hitch.

Intended Usage

Use this boom as part of a pressurized sprayer system to apply liquid pesticides, herbicides or fertilizers to production-agriculture crops only. Mount the boom on a Great Plains trailer sprayer, single-axle sprayer, three-point sprayer or three-point hitch only. Do not modify the boom or use the boom with any tillage attachments.

Using This Manual

This manual was written to help you assemble and prepare the new machine for the customer. The manual includes instructions for assembly and setup. Read this manual and follow the recommendations for safe, efficient and proper assembly and setup.

An operator’s manual is also provided with the new machine. Read and understand “Important Safety Information” and “Operating Instructions” in the operator’s manual before assembling the machine. As a reference, keep the operator’s manual on hand while assembling.

The information in this manual is current at printing. Some parts may change to assure top performance.

Definitions

Right and left as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated.

NOTE: Useful information about the preceding topic.

IMPORTANT: A crucial point of information about the preceding topic. For safe and correct operation, read and follow the directions provided before continuing.

Further Assistance

For additional help with understanding these assembly instructions or for any other assembly or setup related questions, please contact our service department at the following address:

Great Plains Service Department
1525 E. North St.
P.O. Box 5060
Salina, KS 67402-5060

Or call us at (800) 270-9302 to speak over the phone with a service representative.

Copies of this machine’s operator manual are available by mail or online. Please visit www.greatplainsag.com and follow the product link for information on your machine.
Section 1 Assembly

The following headings are step-by-step instructions for assembling the boom. Begin with Tools Required and Pre-Assembly Checklist to make sure you have all necessary parts and equipment. Then proceed with Unload Boom from Truck. Follow each step in order to make the job as quick and safe as possible and produce a properly working machine.

The boom is shipped via flat bed truck. It is the dealer's responsibility to unload the boom. Unload all equipment before beginning assembly. Do not attempt any assembly work while the boom is on the truck.

Tools Required
• Forklift or overhead hoist with 2,000-pound capacity
• Lifting chains
• Saw horses or stands
• General hand tools

Pre-Assembly Checklist
1. Read and understand "Important Safety Information" on page 1 before assembling.
2. Have at least two people on hand while assembling.
3. Make sure the assembly area is level and free of obstructions (preferably an open concrete area).
4. Have all major components.
5. Have all fasteners and pins shipped with boom.
6. Have a copy of the parts manual on hand. If unsure of proper placement or use of any part or fastener, refer to the parts manual.
7. Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
8. Check that all safety labels and reflectors are correctly located and legible. Replace if improperly located or damaged. Refer to Safety Decals, “Important Safety Information” in the operator's manual.

Unload Boom from Truck
1. Using a forklift or hoist, remove boom from truck. Do not remove shipping stands until you are ready to assemble boom.
2. When ready to assemble boom, place parts in an open, level area. Make sure there is enough overhead clearance to fold and unfold assembled boom.

Install Optional Elevator

![Warning Image]

WARNING! Crushing hazard. You could be seriously injured or killed if the weight of the elevator tips over sprayer or mount. Always have a tractor hitched to sprayer or mount while assembling. On three-point sprayers and mounts, always have parking stands secured to sprayer or mount while assembling.

Elevator on 3P300
Refer to Figure 1-1.

1. Position tractor and sprayer in a clear, level area. Lower sprayer parking stands.
2. Bolt receiver plate (1) to elevator frame (2) with 1/2-by-1 1/4 bolts and flange nuts.
3. Using forklift or hoist, position elevator inside sprayer frame (3) so elevator rests on sprayer frame.
4. U-bolt elevator to sprayer frame (4) at four locations.
5. Using 1/2-by-1 1/4-inch bolts and flange nuts, bolt brace rods (5) to elevator and sprayer frame on left- and right-hand sides.

Figure 1-1 Mount Elevator on 3P300
Section 1 Assembly

Elevator on Three Point Mount

1. Hitch three-point mount to tractor. Refer to Figure 1-2 for correct pin mountings.

NOTE: The category 4 narrow hitch (CAT IV-N) spacers are not standard parts supplied with the three-point boom.

2. Position tractor and mount in a clear, level area. Refer to Figure 1-3.

3. Bolt receiver plate (1) to elevator frame (2) with 1/2-by-1 1/4 bolts and flange nuts.

4. Bolt mounting weldment (3) to the three-point mount (4) using four 1/2-by-1 1/2-inch bolts, washers and nuts at each bracket.

5. Using forklift or hoist, position elevator on mounting weldment so elevator rests on top of weldment.

6. Fasten elevator to mounting weldment using four U-bolts and flange nuts (5).

7. Using 1/2-by-1 1/4-inch bolts and flange nuts, bolt a brace rod (6) to elevator and mount on left- and right-hand sides as shown.

Figure 1-2
Pin and Spacer Configuration for Three Point Mount

Figure 1-3
Elevator on Three-Point Mount
Mount Boom

**WARNING!**
Crushing hazard. You could be seriously injured or killed if the weight of the boom tips over the sprayer or mount. Always have a tractor hitched to sprayer or mount while assembling. On three-point sprayers and mounts, always have parking stands secured to sprayer and boom while assembling.

Refer to Figure 1-4, Figure 1-5 or Figure 1-6.
1. Position tractor and sprayer in a clear, level area.
2. If mounting boom on three-point sprayer or mount, use sprayer or mount parking stands (1).
   If mounting boom on trailer sprayer, adjust tongue jack so sprayer tank is level and elevator mast is straight up and down.
3. Unstrap wing sections from shipping stands. Set wing sections aside for later installation.
4. Using forklift, lift center section (2) through lift brackets (3) up to sprayer or mount. Lower center section onto mounting lugs (4). U-bolt center section onto sprayer or elevator (5).
5. Unbolt shipping stands (6) from center section. If available, secure boom parking stands (7) to boom as shown.

NOTE: Boom parking stands are provided with three-point mounted and 3P300 booms only.
6. Connect springs (1) to center posts (2) as shown in Figure 1-7.

2. Refer to Figure 1-9. To assemble inner arms (1) on center section (2), remove pivot pin (3) from center section. Using forklift, position inner arm in center-section joint. Rest inner arm on saw horses. Secure pivot pin to inner arm with 3/8-by-2 1/2-inch bolts (4) and nylock nuts.

Assemble Boom

⚠️ WARNING!
Crushing hazard. The weight of the boom could tip over sprayer or mount. To avoid severe injury or death, always hitch sprayer or mount to a tractor while assembling boom. On three-point sprayers and mounts, always have parking stands secured to sprayer or mount and boom while assembling.

1. Refer to Figure 1-8. Remove boom feet (1) from outer-arm section. Set boom feet aside for later installation.

3. Refer to Figure 1-10. Assemble outer-arm sections (1) onto inner-arm sections (2) using 1-by-7-inch bolts (3) and lock nuts. Rest outer arms on saw horses.

4. Bolt spring-arm cables (4) to outer arms using 1/2-by-1 1/2-inch bolts and locking flange nuts.
5. Check both wings to see that jumper-nozzle brackets face to the rear. If necessary, remove bracket from front of wing and mount on rear of wing.

6. If customer purchased an electric-hydraulic control, install the optional control at this time. Refer to Electric-Hydraulic Control Installation Instructions, part number 506-605M.

7. Plumb hydraulic hoses. Route hydraulic hoses through lift brackets to tractor. See Figure 1-12.

8. Place a block under fold cylinders so cylinder rods will not hit anything when extended.

9. Cycle cylinders in and out several times to remove air from system.

10. Refer to Figure 1-13. Pin cylinder rods (1) to clevis (2) on inner-arm sections.

11. Using 5/16-inch U-bolts and flange nuts, mount fold brackets (1) on inner-arm sections. See Figure 1-14 for specific location.
12. Hydraulically fold boom, watching that boom wings meet rubber stops (1) on top of center posts. Stop boom folding and adjust brackets (2) in or out if necessary. Refer to Figure 1-15.

![Figure 1-15](Boom Wings Meet Stops)

13. Refer to Figure 1-16. Connect each spring shackle (1) to its cable (2) by removing bolt and replacing through cable eye as shown.

![Figure 1-16](Connect Cables and Spring Shackles)

14. Connect boom-lock cable to clevis.

![Figure 1-17](Boom-Lock Cable)

15. Unfold boom.

16. Refer to Figure 1-18. Adjust spring nut (1) so spring is compressed to 10 inches. Lock with second nut (2).

![Figure 1-18](Spring Shackle Adjustment)

17. Refer to Figure 1-19. Using 5/16-inch U-bolts and flange nuts, install a boom foot (1) on each outer wing (2).

![Figure 1-19](Install Boom Foot)
Section 2 Preparation and Setup

Leveling Boom
Boom sections must be level across the span for even nozzle height during spraying.

To adjust an inner-arm section, fold boom and loosen bolts (1) holding shims (2). Add or remove shims as necessary.

Figure 2-1
Shimming Inner Wing
To expose shims for outer-arm section, fold boom and band inner and outer arms together. Disconnect cable from spring shackle and unfold wings while still banded together. Add or remove shims (1) by loosening the bolt (2) shown in Figure 2-2.

Figure 2-2
Shimming Outer Wing
NOTE: Boom arms are disassembled in Figure 2-1 and Figure 2-2 for illustration purposes only.

Locking System
The CF500 and CF600 have a locking system that automatically locks the wing sections during folding and transport. For proper folding, the boom-lock cable must be tight enough that the lock arms (1) just clear their stops when unfolded (2) and rest secure against the stop when folded (3).

Figure 2-3
Lock Arms
To adjust the tension on the boom-lock cable, loosen jam nut and turn clevis. See Figure 2-4.

Figure 2-4
Adjust Boom-Lock Cable

Install Boom Nozzles and Tubing
Wet Boom Option
1. Prepare for installation.
   Sort tubing sections by color ties. Use four sections with yellow ties for the center section. Use two sections with red ties for the left wing. Use two sections with green ties for the right wing.
If wet-boom has 30-inch nozzle spacing, move jumper-nozzle bracket from inner-arm section to outer-arm section.

Figure 2-5
Bracket on Outer Arm for 30-Inch Spacing

For a starting reference point to help you mount tubing, mark boom center point on nozzle tube. To find center, measure mid point of center posts.


Refer to Figure 2-6 or Figure 2-7, depending on nozzle spacing.

Start with yellow-tagged, center-section tubing. Of the four tubing sections, set two jumper sections (1) aside for later assembly. Assemble two remaining sections (2) together. For 20-inch nozzle spacing, U-bolt center tubing section (2) to nozzle tube (3) so middle nozzles are 10 inches from center. For 30-inch nozzle spacing, U-bolt center tubing section (2) to nozzle tube so middle nozzle is at center. Mount jumper sections (1) on left and right of center-section tubing. Use end nozzles as a reference to mount jumpers at the correct nozzle spacing.

For each wing, distinguish tubing sections by identifying jumper nozzle (4). Mount tubing on wings so jumper nozzle can be mounted on jumper-nozzle bracket. Mount remaining tubing section (5) to other arm section. Use end nozzles as reference to mount other tubing section at the correct nozzle spacing.

Figure 2-6
Wet Boom, 20-Inch Spacing
Figure 2-7
Wet Boom, 30-Inch Spacing
3. Plumb wet boom.

For the following instructions, refer to Figure 2-6, page 10, or Figure 2-7, page 11, for an overview of hose connections for entire boom.

Use pre-cut supply lines (1) to connect tubing as shown in Figure 2-8, Figure 2-9 and Figure 2-10.

**Figure 2-8**
Center Section to Jumper Section

On wings, use cable ties to secure supply line to bracket (2) on inner-arm section. See Figure 2-9 and Figure 2-10.

**Figure 2-9**
Inner to Outer Arm, 20-Inch

**Figure 2-10**
Inner to Outer Arm, 30-Inch

Dry Boom Option

1. Using a felt-tip marker, mark nozzle spacing on boom to help identify nozzle locations. See Figure 2-11.

2. Mount jumper-nozzle brackets on wing sections where necessary. See Figure 2-12.

**Figure 2-11**
Mark Tube for Nozzle Spacing

2. Mount jumper-nozzle brackets on wing sections where necessary. See Figure 2-12.

3. Refer to Figure 2-13. Using mounting clamps (1), mount nozzles (2) at marked locations.

**Figure 2-12**
Mount Jumper-Nozzle Brackets

**Figure 2-13**
Mount Nozzles
The illustrations on this page are an example of where to place end nozzles, tee-nozzles and tee-fittings. Placement will depend on nozzle spacing.

When mounting nozzles on the left-hand, inner arm, mount nozzles on the inside of the arm as shown in Figure 2-15. Mount all other nozzles to the rear.

4. Plumb nozzles. From the roll of 3/4-inch hose, cut lengths to connect nozzles. Use worm clamps to secure hoses to nozzles.

The illustrations on this page are an example of where to place tee-fittings (1) for supply lines. Your goal is to have a tee-fitting for each wing and center section so each boom section can have its own supply line. Use zip ties (2) to secure hoses.
Connect Boom to Sprayer

1. Using roll of 1-inch hose, make a supply line to connect each ball valve on sprayer to a section of boom nozzles. Connect
   - ball valve with red tape to left wing,
   - ball valve with yellow tape to center section and
   - ball valve with green tape to right wing.

To make a supply line, connect 1-inch hose to ball valve. Route hose to left of center posts and above tube for boom-lock cable. Leave enough slack in hose for optional elevator to be raised fully. See Figure 2-17.

2. Slowly fold and unfold sprayer several times to see if hoses will be pinched or damaged. Reposition hoses as necessary.

3. Check that all nuts are tightened. See the Torque Values Chart, Appendix, page 16. Check that all hose clamps are tight.

4. Fill sprayer tank 1/4 full of water. Hook pump to tractor and operate pump with control-box boom switches off and agitation wide open. If unit is equipped with boom throttling valves, open throttling valves full open. With pump running, turn on all boom switches and flush out boom lines. Allow water to flow out of all nozzles at least ten seconds to ensure all foreign material is removed from plumbing.

Installing SMV

1. Install the SMV bracket (1) on the rear tube (2) of the center frame in the position shown. Use a 3/8-16x2x4 U-bolt (3) and two 3/8-16 flange nuts (4).

2. Install the SMV on the SMV bracket. Use two each 1/4-20x5/8 GR5 HHCS (5), 1/4 plt lock washers, 1/4-20 plt nuts.
Installing Lights and Reflector Decals

Figure 2-19
Light Brackets

1. Find the two light brackets (1) for the right-hand side of the center frame.

2. Install the outer and inner light brackets on the rear tube (2) of the center frame. Use two 1/2-13x2 1/32x6 1/2 U-bolts (3), four 1/2 lock washers (4), and four 1/2 1/2-13 nuts (5) for each installation.

3. Fasten an amber light (6) on the outer light bracket. Use two 1/4-20x2 9/32x3 GR2 U-bolts (7) and four 1/4-20 Nylock nuts (8).

4. Fasten the rear decal mount (9) and the side decal mount (10) to the outer light bracket. Use two 5/16-18x2 1/32x2 11/16 U-bolts (11), four 5/16 lock washers (12), and four 5/16-18 nuts (13).

5. Install a daytime reflector decal (14) on the side decal mount.

6. Install a red reflector decal (15) on the outer end of the rear decal mount.

7. Install a amber reflector decal (16) on the inner end of the rear decal bracket.

8. Fasten a red light (17) on the inner light bracket. Use two 1/4-20x2 9/32x3 GR2 U-bolt and four 1/4-20 Nylock nuts.

9. Fasten the rear decal mount to the inner light bracket. Use two 5/16-18x2 1/32x2 11/16 U-bolts, four 5/16 lock washers, and four 5/16-18 nuts.

10. Install the red reflector decal on the outer end of the rear decal mount.

11. Install the amber reflector decal on the inner end of the rear decal bracket.

12. Repeat the procedure to install the two light brackets on the left-hand side of the center frame.

13. Connect the rear lighting harness to the lamps. The red lights have three pin connectors. The amber lights have two pin connectors.

14. Connect the front lighting harness to the rear lighting harness. Route the front wiring harness forward. Make sure the lighting harnesses are not routed through an area where the lighting harnesses can be pinched.
Appendix

Tire Inflation Chart

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<th>Tire Size</th>
<th>Inflation PSI</th>
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<td>7.50 x 20” 4-Ply Drill Rib</td>
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<td>9.0 x 22.5 10-Ply Highway Service</td>
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<td>9.0 x 24” 8-Ply Rib Implement</td>
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Torque Values Chart for Common Bolt Sizes

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1 in-tpi = nominal thread dia. in inches-threads per inch
2 N · m = newton-meters
3 ft-lb = foot pounds
4 mm x pitch = nominal thread dia. in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Tire Size | Inflation PSI
---|---
11L x 15” 6-Ply Rib Implement | 28
11L x 15” 12-Ply Rib Implement | 52
12.5L x 15” 8-Ply Rib Implement | 36
12.5L x 15” 10-Ply Rib Implement | 44
16.5L x 16.1” 10-Ply Rib Implement | 36
21.5 x 16.1” SC 10-Ply Rib Implement | 28