



Precision Vacuum Planters

Twin-Row Pull-Type Rigid Frame

4-Row, 6-Row, 8-Row



Operator & Parts Manual

Includes Instructions for:

- **Safety**
- **Operation**
- **Maintenance**

INTRODUCTION

Congratulations on your purchase of a MONOSEM planter.

This manual has been prepared for use in operation, adjustment, and maintenance of the planter. Read this manual carefully before operating your planter.

The information used in compiling this manual is current, however as production changes do occur on a continual basis, Monosem Inc. reserves the right to change specifications or designs without notice and without the obligation to install the same on previously manufactured machines.


Please take the time now to record your serial number and date of purchase for a reference when ordering replacement parts for your Monosem NG Plus 4 planter.

Serial Number _____

Date _____

The WARRANTY for your NG Plus 4 planter is printed on the back cover.



While reading your manual you will see the symbol  and the words **CAUTION, WARNING, DANGER**. Pay particular attention to the safety information given. Failure to observe the safety symbols can cause damage to the machine and/or personal injury. A detailed description of the safety symbols and their meaning is found in the safety section of this manual.

2 precautions for successful planting:

1. Choose a reasonable working speed adapted to the field conditions and desired accuracy.
2. Check proper working of the seed metering, seed placement, spacing and density when starting up and from time to time during planting.

... and don't forget – accurate planting is the key to a good stand!

QUICK REFERENCE

Twin-Row PULL-TYPE RIGID Planter

SAFETY	1
GENERAL SAFETY	1. 1
BEFORE OPERATION	1. 1
DURING & FOLOWING OPERATION	1. 2
UNHOOKING THE PLANTER	1. 2
STORING THE PLANTER	1. 2
PERFORMING MAINTENANCE	1. 3
TIRE SAFETY	1. 3
DRIVE LINE SAFETY	1. 3
HYDRAULIC SAFETY	1. 3
SAFETY STICKERS	1. 4

PREPARING THE PLANTER	2
LUBRICATION	2.1
WHEEL BEARING REPLACEMENT	2.1
TIRE PRESSURE	2.2
CHAIN TENSION ADJUSTMENT	2.3
VALVE BLOCK INSPECTION	2.3
TRACTOR HOOKUP	2.4
LEVELING THE PLANTER	2.5
TRANSPORTING THE PLANTER	2.5
OPERATING SPEED	2.5
FIELD TEST	2.6
CHECKING SEED POPULATION	2.6
UNHOOKING THE PLANTER	2.7
STORING THE PLANTER	2.7

FRAME	3
PULL-TYPE RIGID FRAME	3.1
CONTACT DRIVE WHEEL	3. 2
TRANSPORT WHEEL	3. 4
HYDRAULIC LIFT CYLINDERS	3. 5
HYDRAULIC WING FOLD	3.6

TRANSMISSION	4
ADJUSTMENT & ASSEMBLY	4.1
PLANTING RATE CHART	4.3
SEED POPULATION CHART	4.3

DRIVE	5
STANDARD TURBOFAN	5.1
ASSEMBLY-STANDARD TURBOFAN	5.2
ASSY - HIGH OUTPUT TURBOFAN	5.4-5.5
ASSY - EXTRA HIGH OUTPUT	5.6-5.7
ASSEMBLY - HYDRAULIC DRIVE	5.8-5.9
VACUUM GAUGE SETTINGS	5.10
ASSEMBLY - VACUUM GAUGE	5.10

ROW UNIT	6
SEED DEPTH	6.1
V PRESS WHEELS	6.1
DEPTH GAUGE WHEELS	6.2
DOUBLE DISC OPENERS	6.2
STABILIZER SPRINGS	6.2
DRIVE CHAIN	6.2
SEED HOPPER	6.2
SEED METERING SYSTEM	6.3
EXTRA LARGE SEED	6.4
DISENGAGING THE METER BOX	6.4
SEED TUBE	6.4
METERING BOX ADJUSTMENT	6.5
SEED DISC	6.5
SEED CHUTE	6.5
SEED DISC IDENTIFICATION	6.6
SEED DISC RECOMMENDATIONS	6.6
ASSEMBLY - ROW UNIT	6.8
ASSEMBLY-CLOSING WHEEL	6.10
ASSEMBLY-GAUGE WHEEL ARM	6.10
ASSEMBLY-GAUGE WHEEL	6.11
ASSEMBLY-METERING BOX	6.12
METERING BOX TROUBLESHOOTING	6.13
ASSY-UP/ DOWN PRESSURE SPRING	6.14
ASSEMBLY - HILLER DISCS	6.16
ASSEMBLY - CONCAVE PRESS WHEEL	6.18
OFFSET ASSEMBLY 7.5"	6.18
OFFSET ASSEMBLY 9"	6.19
7.5" V PRESS WHEEL CLOSING ASSY	6.20
7.5" FLAT PRESS WHEEL CLOSING	6.21
HOPPER ASSEMBLY	6.22

OPTIONAL EQUIPMENT 7

ATTACHMENTS 7

ROW MARKERS 7.1

AIR INSECTICIDE -TWIN-ROW 7.2

MICROSEM MICROGRANULAR SYSTEM 7.4

DRY FERTILIZER -Pull-Type 7.5

LIQUID FERTILIZER -Pull-Type 7.7

SPECIFICATIONS

PULL-TYPE RIGID Frame 4-row, 6-row, and 8-row

FRAME: Pull-Type Rigid

PLANTING UNIT: NG Plus 4 Monosem
 Vacuum Metering Box
 Double Disc Openers
 Gauge Wheels
 Adjustable Closing Wheels

STANDARD ROW SPACING	Transport WIDTH	WEIGHT*
4-Row Narrow – 30" Rows	12' 8"	2083 lbs.
4-Row Wide – 36" or 38" Rows	14' 8"	2154 lbs.
6-Row Narrow – 30" Rows	17' 8"	3318 lbs.
6-Row Wide – 36" or 38" Rows	20' 2"	3573 lbs.
8-Row Narrow – 30" Rows	21' 10"	4694 lbs.

*The base machine weights include planter frame, optional row markers, drive components, tires and wheels, hydraulic cylinders, NG Plus 4 row units with seed hopper and lid.

DRIVE SYSTEM:

Spring-loaded contact drive tire (4.10"x6") with #40 chain.
 One on 4-row, two on 6 and 8 row. Quick-adjust end mounted seed transmission with machined sprocket
 (2 on 8-Row) 7/8" Hex drive and drill shafts

TRANSPORT TIRES:

7.50 X 20", 6 Ply Two tires on 4-Row Four tires on 6 & 8-Row
 Adjustable height wheels for ridge planting

TYPE LIFT:

Master/slave hydraulics 4-Row master/slave re-phasing (2 cylinders)
 6 & 8 Row master/slave re-phasing with assist cylinders (4 cylinders)

MARKERS:

Heavy-duty Conventional: 4-Row Narrow/Wide & 6-Row Narrow
 Low Profile Two Fold: 6-Row Wide & 8-Row Narrow

HYDRAULICS:

Standard: Single SCV
 Optional: Dual SCV for independent operation of lift and markers.
 Hydraulic alternating sequence valve with flow controls for markers

OPTIONAL EQUIPMENT:

Liquid Fertilizer System
 Dry Fertilizer System
 Granular Insecticide/Herbicide System
 Air Insecticide System