



Owner's Manual

Plastic Mulch Bed Shaper-Layer Model# ML4600

Dealer: _____
Contact: _____
Phone: _____
Model #: _____
Serial #: _____

Manufactured by PBZ LLC
A Paul B Zimmerman Inc. Company
www.CropCareEquipment.com

Table Of Contents

Identification of Machine	3
Introduction	3
Safety	4-7
Safety Alert Symbol	4
Signal Words.....	4
Hazards.....	5
Preparation for Use	5
General Guidelines.....	5
During Use	6
Transporting the Equipment.....	6
Maintenance & Adjustment.....	6
After Use / Storage	6
Safety Signs	7
Operation	8-25
Operating Instructions	8-24
General Terminology.....	8
Pre-start Instructions.....	9-19
Bed Width & Row Spacing	9
Bed Top / Furrow Width, & Bed Height.....	9-10
Furrow Shank Spacing / Shaper Opening.....	11-12
Furrow Shank Depth.....	13
Shaping Disk Depth	14
Shaping Disk Spacing & Angle.....	15
Adjusting Plastic Mulch Layer	16
Press Wheels	17-18
Covering Disks	18
Rear Gauge Wheels	19
Field Preparation.....	19
During Operation	20
Adjust the Tractor Hitch.....	20
Loading / Setup of the Mulch Roll.....	20-21
Plastic Mulch Tension on Bed Top.....	22
Soil Coverage on Plastic Edges	22
Shaping Beds & Laying Plastic	23-24
Driving Patterns for Beds w/ Common Furrows	23-24
Driving Pattern for Beds w/ Space Between	24
Troubleshooting	25
Maintenance & Adjustments.....	26-27
Maintenance Schedules.....	26
Maintenance Procedures.....	26
Maintenance Materials.....	27
Adjustments.....	27
Storage	27
Specifications.....	27
Accessories & Attachments.....	28
Transportation.....	29
CropCare [®] Limited Warranty	30
Warranty Coverage	30
Warranty is Void if.....	30
Getting Warranty Service.....	30
Ordering Parts.....	30
Parts List & Breakdowns.....	30

Identification of Machine

- Model# ML4600
- The serial number is located on a plate behind the lower lift arm pin location.

Introduction

Please read and understand this manual and its instructions and warnings completely before operating equipment.

- This machine is intended for shaping raised beds for growing produce, and covering them with plastic mulch in a single pass. This machine can be used to shape beds without laying plastic mulch by removing the rear portion of the machine that lays the plastic on the beds.
- Read and understand the manufacturer's labels, warnings, and instructions.
- Familiarize yourself and other operators with all components of the machine and how they are operated.
- Contact your authorized CropCare® Dealer for help interpreting the owners manual.

Safety Alert Symbol

-The safety alert symbol for safety signs & decals that contain one of the three signal words (DANGER, WARNING, & CAUTION) will appear as shown in figure 1.



Figure 1: Safety Alert Symbol

Signal Words

-There are three signal words; DANGER, WARNING, and CAUTION. The signal words bring attention to the existence and relative seriousness of a hazard.

- **DANGER:** The signal word DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING:** The signal word WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION:** The signal word CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

-Additional Signal Words.

- **NOTE:** The signal word NOTE provides information on operator safety and operator tips.
- **IMPORTANT:** The signal word IMPORTANT indicates a recommended action or a restriction that will ensure correct equipment operation and performance.

Hazards



Preparation for Use



1.) General Guidelines

Every year many unnecessary accidents occur due to improper equipment handling and a disregard for safety precautions. As the operator you can avoid accidents by observing the precautions in this section.

- The best defense against accidents is a careful and responsible operator.
- The operator should be a responsible adult. Do not allow persons to operate this equipment until they have displayed a thorough understanding of equipment safety precautions and operational use!
- Never attempt to operate this equipment when under the influence of alcohol or drugs.
- ALL replacement parts need to be an OEM part or an aftermarket equivalent.
- If there is any portion of this manual that you do not fully understand, please contact the original retailer.
- Review specifications and ensure that this product is only used with a compatible tractor.
- Never exceed the maximum lift or towing capacity specified by the tractor manufacturer.

2.) Preparation for Use

- Be aware of the location of all the safety and warning decals. Always replace any decals that are illegible or are missing.
- Carefully study and understand this owner's manual.
- Be aware of the owner's manual decal (Figure 1).
- Do not wear loose-fitting clothing which may catch in moving parts.
- Visually inspect the equipment for any worn parts, loose bolts, or other visible problems, and make the necessary repairs.
- All equipment maintenance should be performed with the equipment unhooked from the tractor.
- Make sure the area is clear of any people or obstructions before using the equipment.

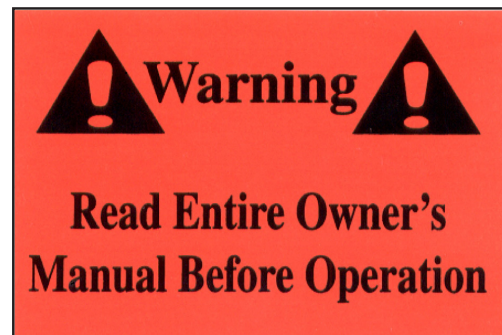


Figure 1: Owner's Manual Decal (DE39)



Figure 2: Read Owner's Manual (DE115)

Safety



During Use



- Always be aware of bystanders, particularly children! Always look before moving the equipment. Bystanders should never be allowed near the equipment during operation.
 - No passengers are allowed on or in the tractor or equipment at any time.
 - Be aware of the equipment's moving parts and the portions of the equipment where the risk of pinching is high.
 - Be aware of all the safety and warning decals.
 - Keep hands and body parts clear of all moving parts.
 - Only disconnect equipment on a solid level surface.
 - When operating on inclines, it is especially important that your tractor is equipped with Roll Over Protection System (ROPS).
 - Remember that accidents can even happen to seasoned operators. Always take your time and follow all safety instructions.
-



Transporting the Equipment



- When transporting the equipment on public roads, always follow state and local regulations regarding safety and transportation requirements. Use the necessary lights and slow moving vehicle (SMV) emblems.
 - Never exceed the tractor's tow ratings.
 - Check lighting before traveling.
 - Make sure SMV sign is not blocked or bent.
-



Maintenance and Adjustment



- Make sure equipment is lowered onto level ground, or adequately supported before performing adjustments and maintenance.
-



After Use / Storage



- Following operation, stop the tractor unit, set the brakes, shut off the engine, and remove the ignition key.
- Park the equipment on a hard level surface, away from all human and livestock activity.
- Do not permit children to play on or around equipment.

Safety Signs

Signs and decals used to indicate safe practices while preparing, transporting, and operating equipment.

- Make sure that they are not obstructed by dirt. Clean as necessary.
- Replacements can be ordered from a CropCare® Dealer

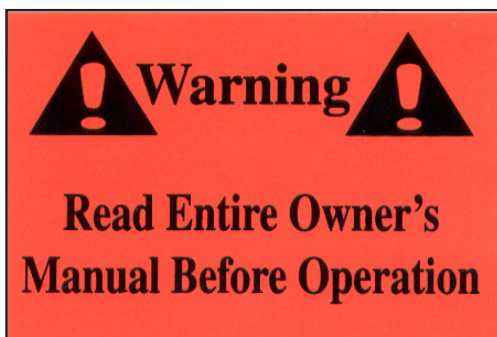


Figure 1: Owner's Manual Decal (DE39)



Figure 2: Read Owner's Manual (DE115)

Operation

Operating Instructions

Before operating the equipment, it is important that you read this entire manual and know all safety precautions. Always take your time and be alert when operating your equipment. This will allow you to safely operate without accident or interruption.

General Terminology

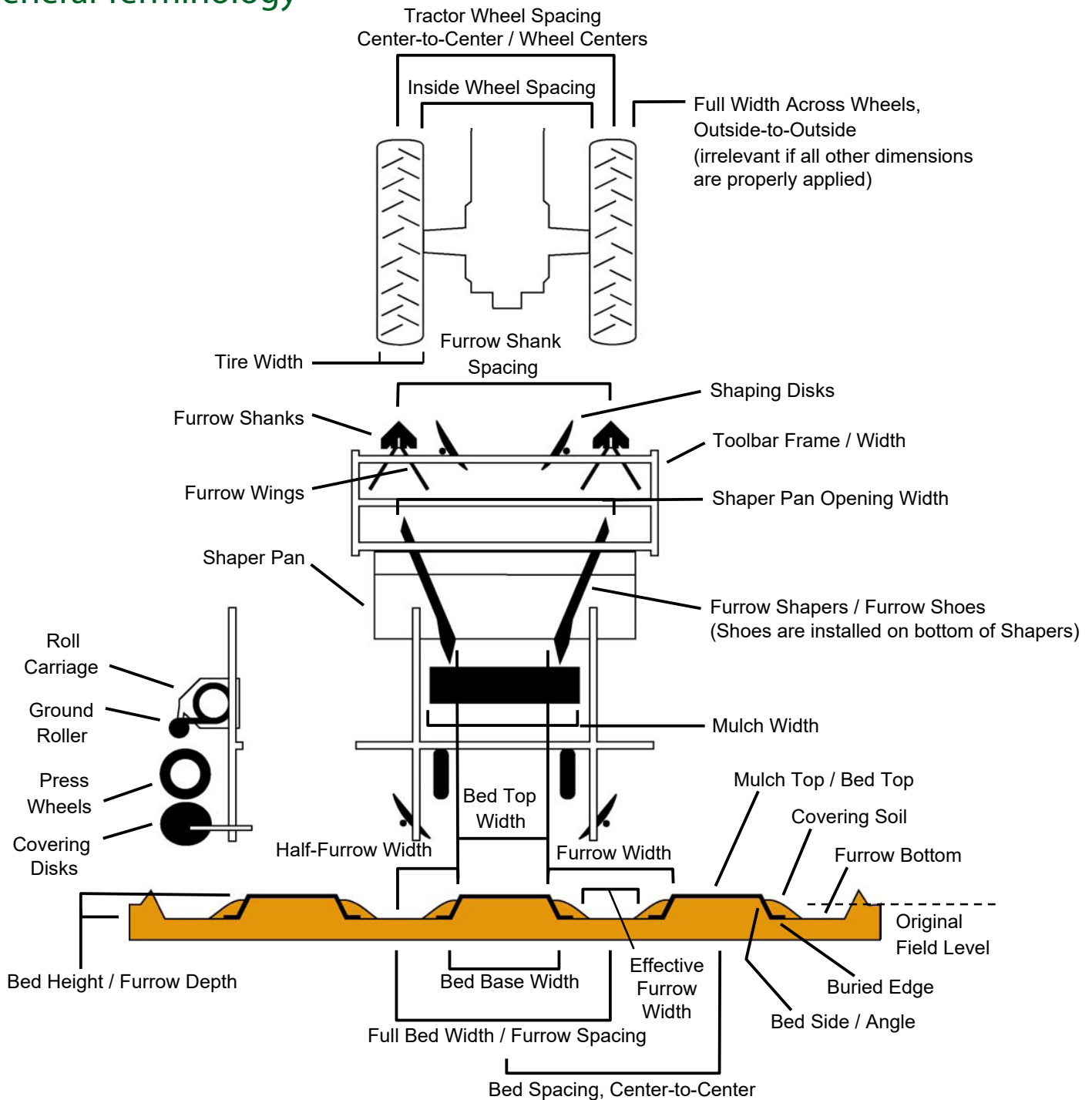


Figure 1: General Terms

Operation

Pre-start Instructions

1.) Bed Mulch Width and Row Spacing

The desired Mulch Row Width and Row Spacing are to be determined before setting up the machine (shown in the figure below).

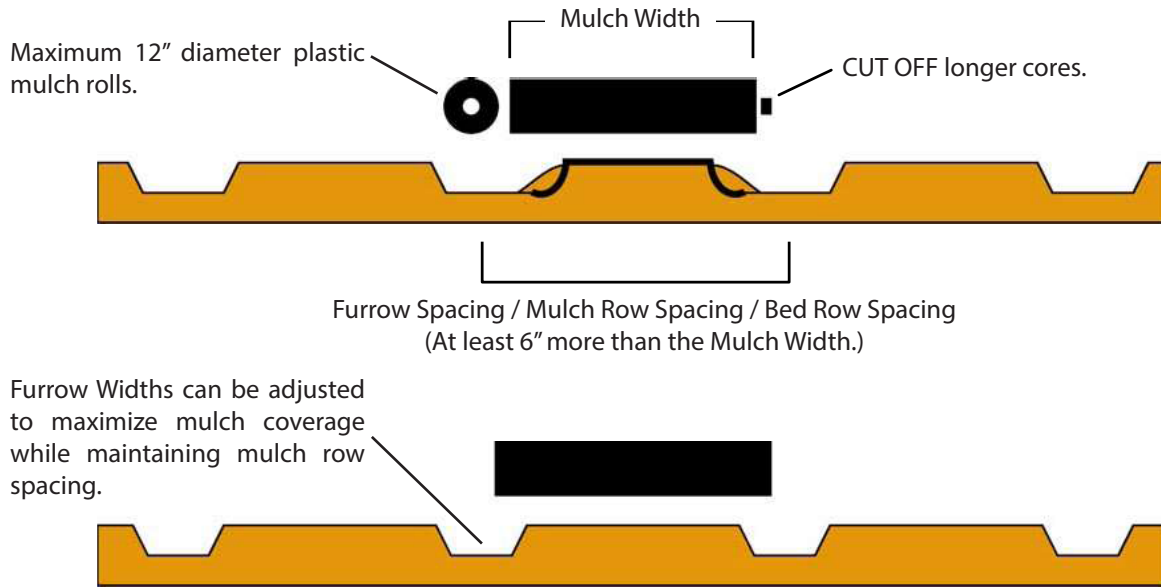


Figure 2: Bed Mulch Width and Row Spacing

2.) Bed Top / Furrow Width, and Bed Height

The Bed Top Width, Furrow Width, and Bed Height are to be set by the adjustments shown in the figures below.

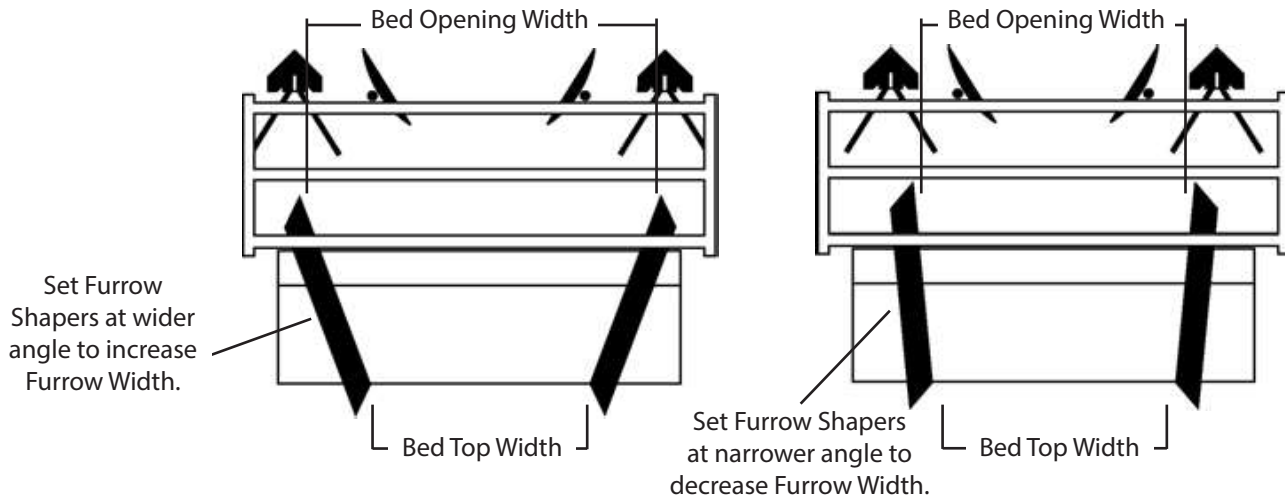


Figure 3: Bed and Furrow Width

2.) Bed Top / Furrow Width, and Bed Height...Continued

The Bed Height is determined by the Bed Height package selected when the unit was purchased. NOTE: Additional Bed Height package options are available.

Refer to the chart below for Bed Top Width dimensions based on Bed Height.

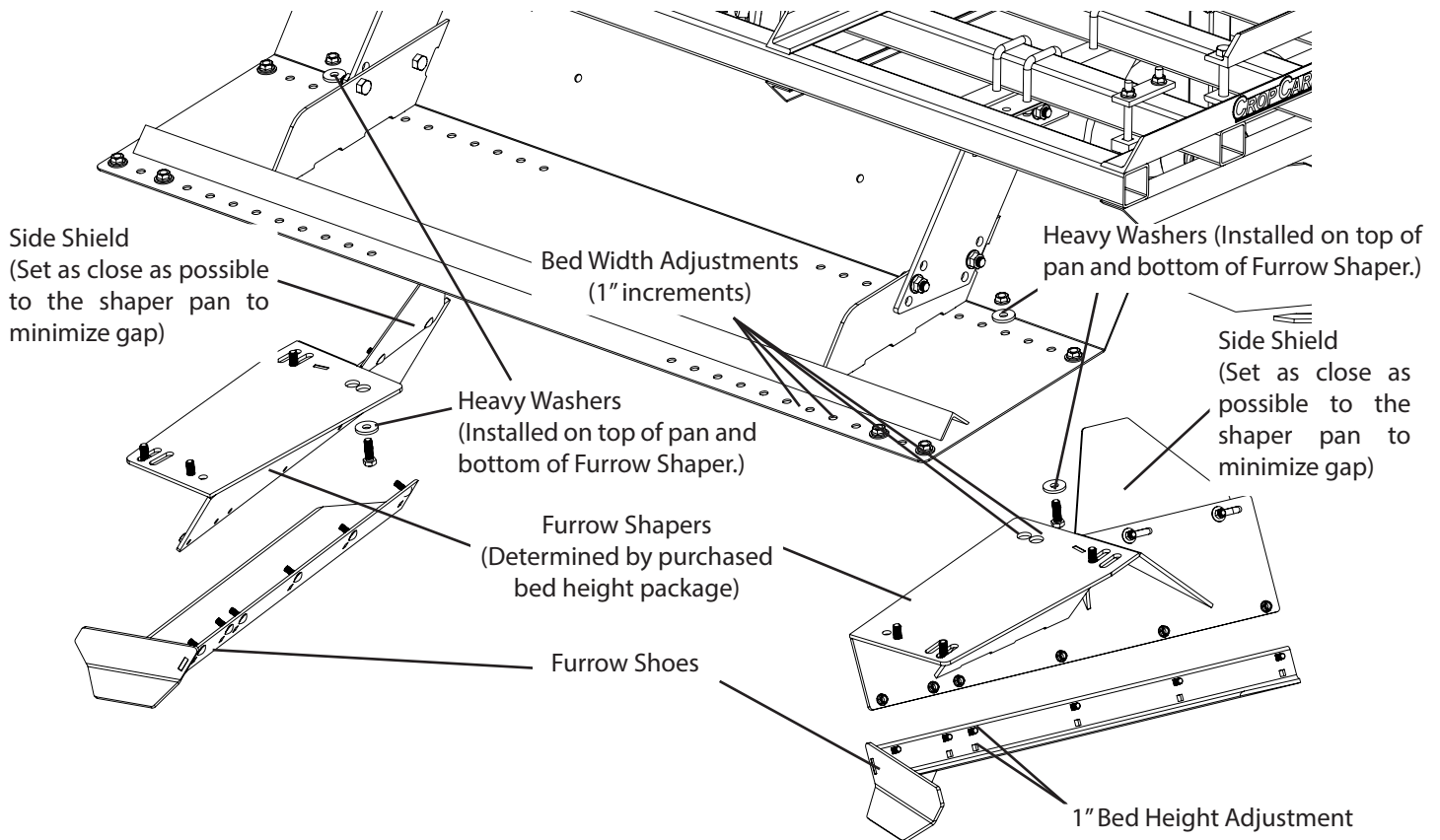


Figure 4: Bed Height

Mulch Width (inches)	Bed Top Width (Inches)				
	Bed Height (Inches)				
	4	5	6	8	10
36	20	18	16		
42	26	24	22		
48	32	30	28	24	
54	38	36	34	30	26
60	44	42	40	36	32
66	50	48	46	42	38
72	56	54	52	48	44

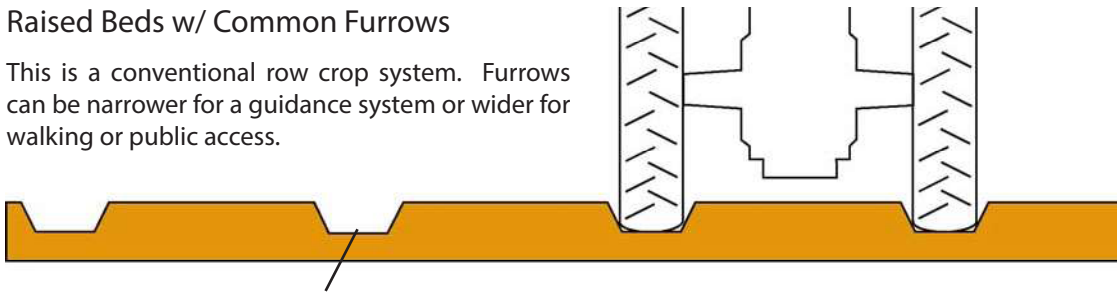
3.) Furrow Shank Spacing / Shaper Opening

Set the Furrow Shank Spacing and the Bed Shaper opening based on the type of raised bed that you will be using.

Raised Bed Systems

Raised Beds w/ Common Furrows

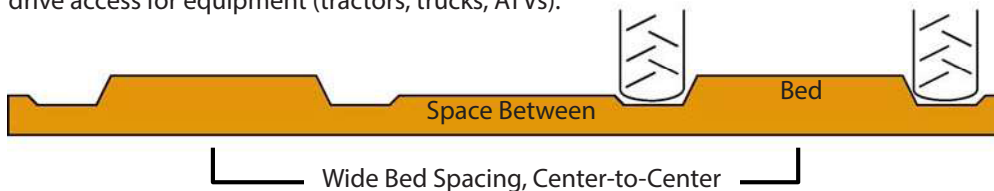
This is a conventional row crop system. Furrows can be narrower for a guidance system or wider for walking or public access.



One common furrow between beds.

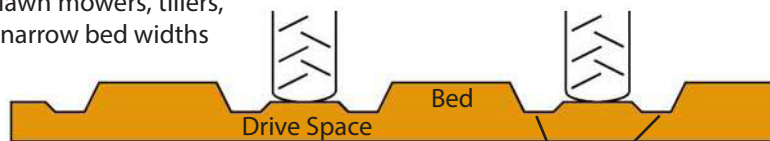
Raised Beds w/ Wide Spacing

This system gives space between the beds to allow drive access for equipment (tractors, trucks, ATVs).



Raised Beds w/ Drive Spaces

This system gives space between the beds to allow access for smaller equipment (lawn mowers, tillers, etc.) This may also be used for narrow bed widths



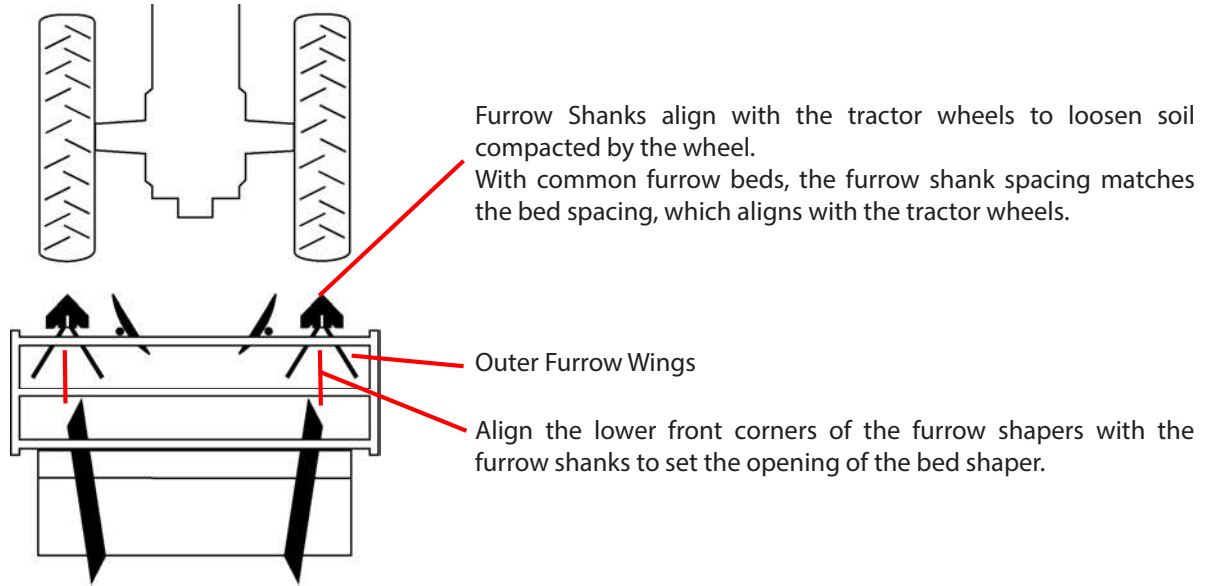
Half furrows inside of tractor wheels (the raised center usually flattens to appear as one extra-wide wide furrow).

Figure 5: Basic Raised Bed Systems

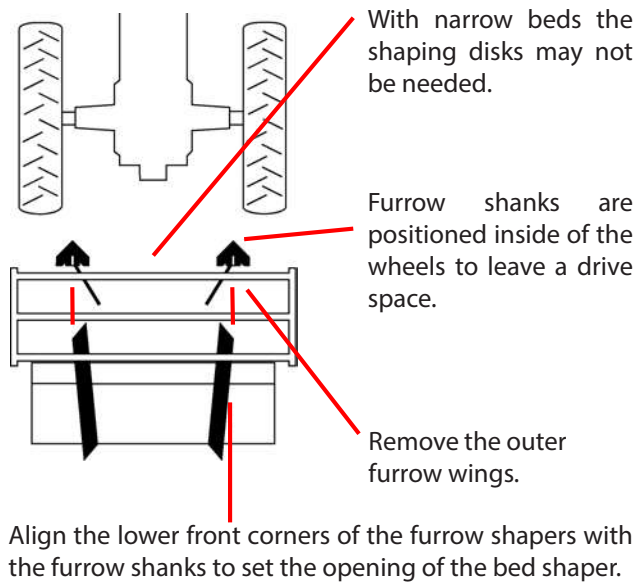
3.) Furrow Shank Spacing / Shaper Opening...Continued

Furrow Shank and Bed Shaper Settings for Raised Bed Systems

Raised Beds w/ Common Furrows or Wide Spacing



Raised Beds w/ Drive Space



Wider Beds and Narrow Tractor Wheel Spacing

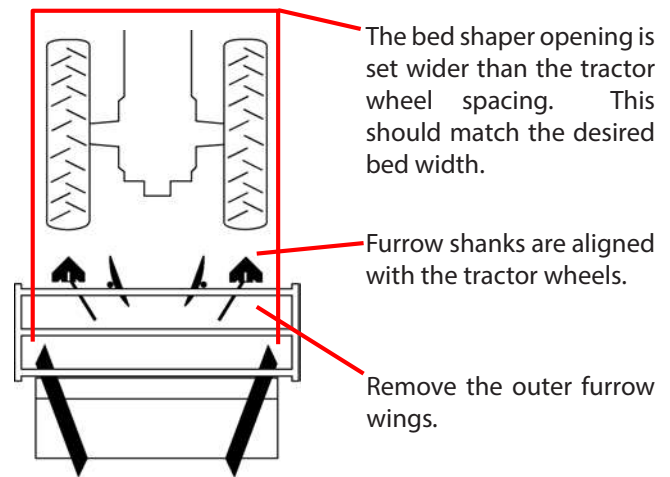


Figure 6: Furrow Shank Spacing and Bed Shaper Opening Setups

Operation

4.) Furrow Shank Depth

Loosen the bolts for the clamps holding the Furrow Shanks, and set depth based on bed height referenced in the figure and chart below.

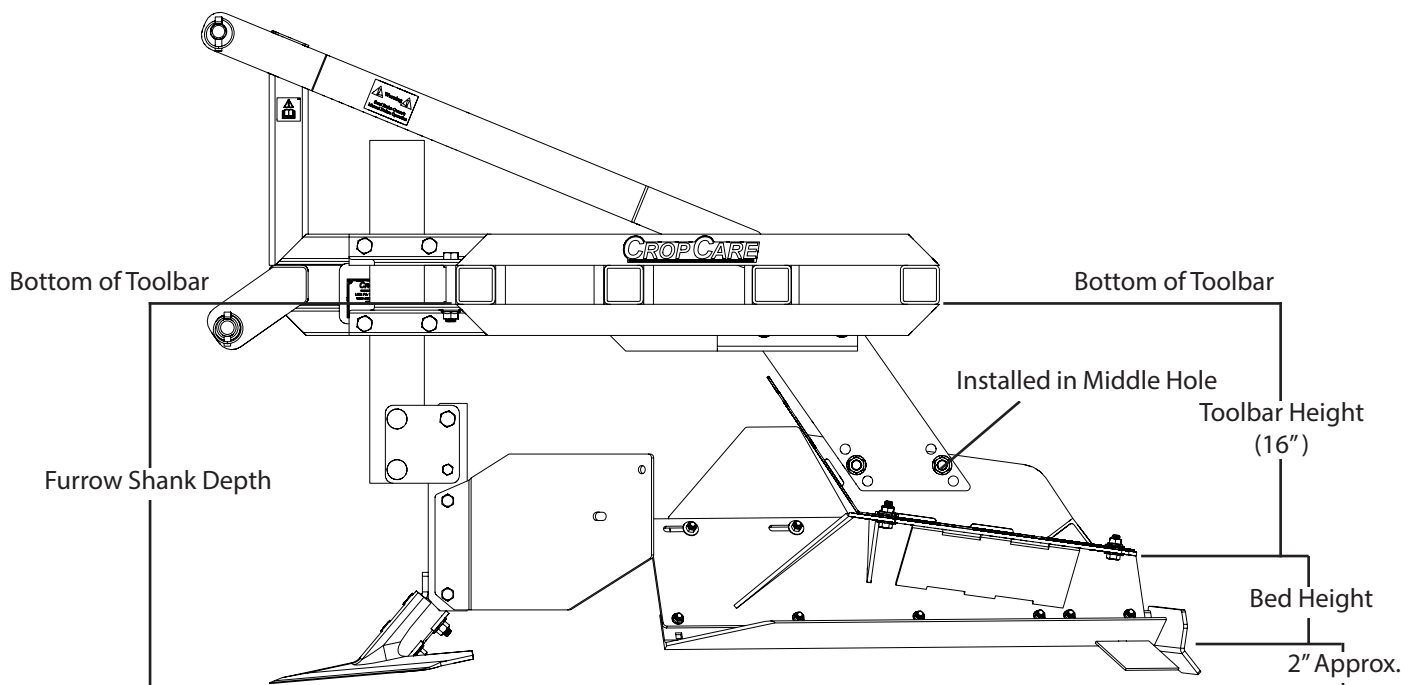


Figure 7: Furrow Shank Depth Diagram

Bed Height (Inches)	Furrow Shank Depth (Inches)
3	21
4	22
5	23
6	24
7	25
8	26
9	27
10	28

Operation

5.) Shaping Disk Depth

Loosen the bolts for the clamps holding the Shaping Disks, and set depth based on bed height referenced in the figure and chart below.

IMPORTANT: Do NOT set the Shaping Disks deeper than the Furrow Shanks, as this could cause excessive wear or damage.

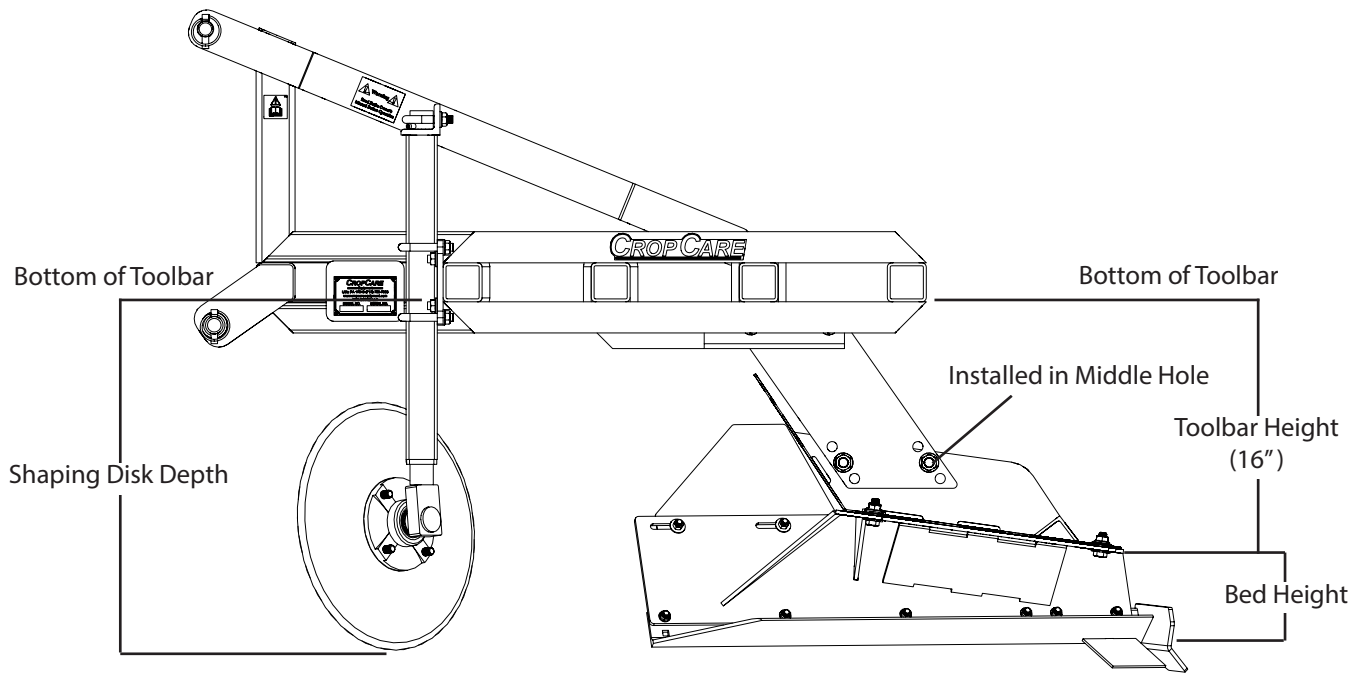


Figure 8: Shaping Disk Depth Diagram

Bed Height (Inches)	Shaping Disk Depth (Inches)
3	19
4	20
5	21
6	22
7	23
8	24
9	25
10	26

Operation

6.) Shaping Disk Spacing and Angle

- To set the spacing of the Shaping Disks, loosen the bolts for the clamps holding the Shaping Disks, and set the spacing in relation to the spacing of the Furrow Shanks (referenced in the figure and chart below). NOTE: The spacings are approximate and are not critical. Adjust the spacing as needed for soil flow.
- To set the angle of the Shaper Disks, loosen the u-bolt at the top of the shank and rotate the disk until it is parallel with the furrow wings (referenced in the figure below).
- NOTE: The positioning of the Shaping Disks should be done in advance of use, but may need to be adjusted during use based on conditions.

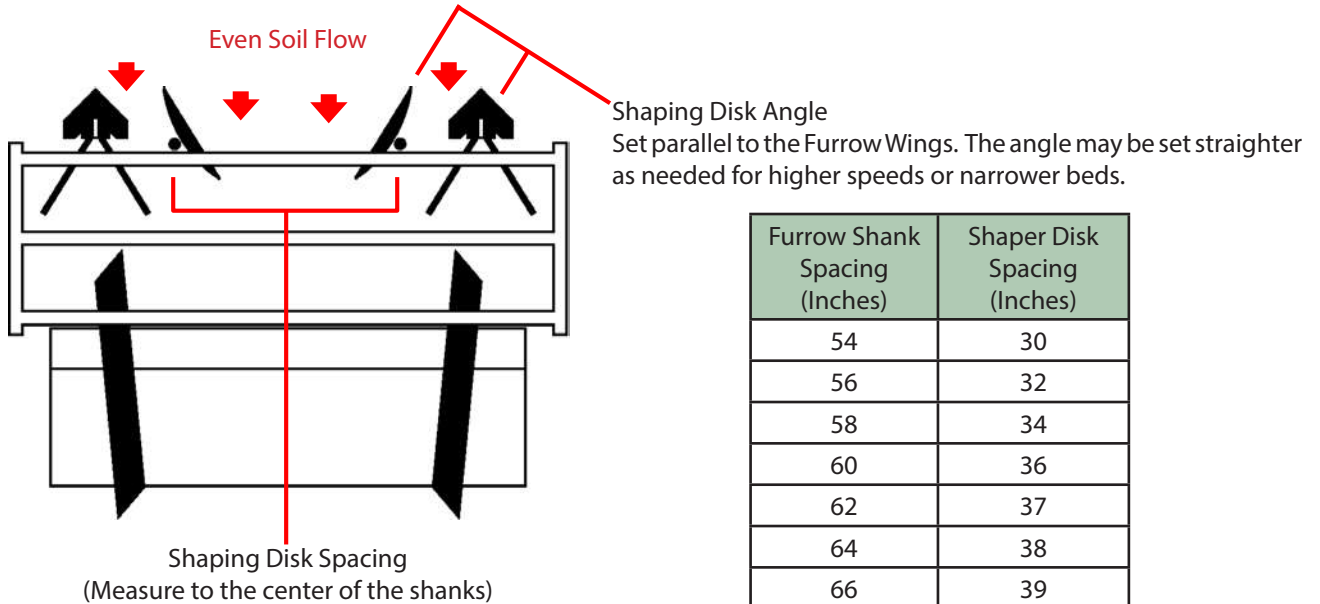


Figure 9: Shaping Disk Spacing and Angle

The following figure illustrates incorrect Shaping Disk positions.

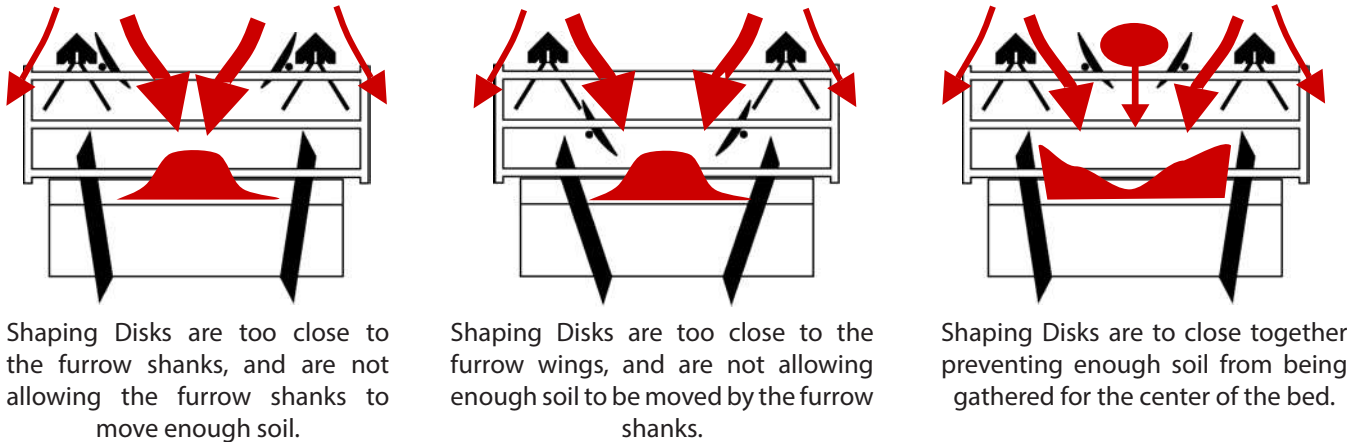


Figure 10: Incorrect Shaping Disk Positions

Operation

7.) Adjusting Plastic Mulch Layer

The following steps are for adjusting the plastic mulch layer portion of the machine to match the desired bed width.

1. To remove the Plastic Mulch roll carriage, loosen one side of the mulch layer frame.
2. Cut the Roller Tube length to match the nominal width of the mulch bed (refer to chart).
3. Adjust the frame width (Nominal mulch width + 6", refer to the chart) of the mulch layer. NOTE: Make sure to center the mulch roll carriage on the machine by adjusting both side toolbars equally.
4. Mulch rolls vary in width, adjust the Roll Centering Brackets to center the roll on the machine (see Loading / Setup of the Mulch Roll, figure 19, page 20).

Mulch Width (Inches)	Toolbar Inner Width (Inches)	Roller Length (Inches)
36	42	36
42	48	42
48	54	48
54	60	54
60	66	60
66	72	66
72	78	72

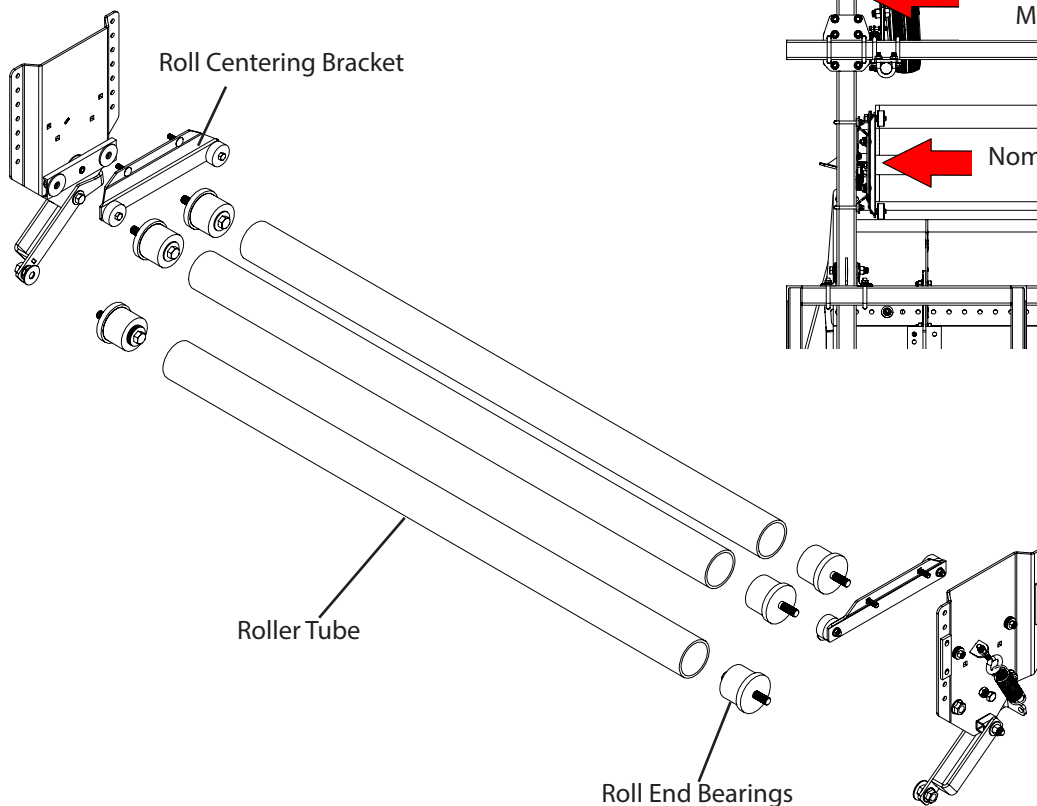


Figure 12: Mulch Roll Carriage

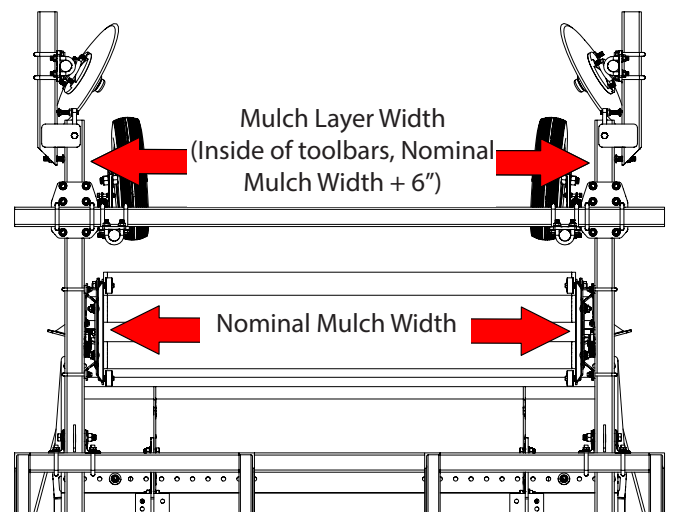


Figure 11: Mulch Layer Width

Operation

8.) Press Wheels

- The Press Wheels are used to pull the plastic mulch down into the bottom of the furrows, and to stretch the plastic tight over the bed as needed.
- NOTE: The adjustment of the Press Wheels can be done in advance of use, but may need to be adjusted during use based on conditions.

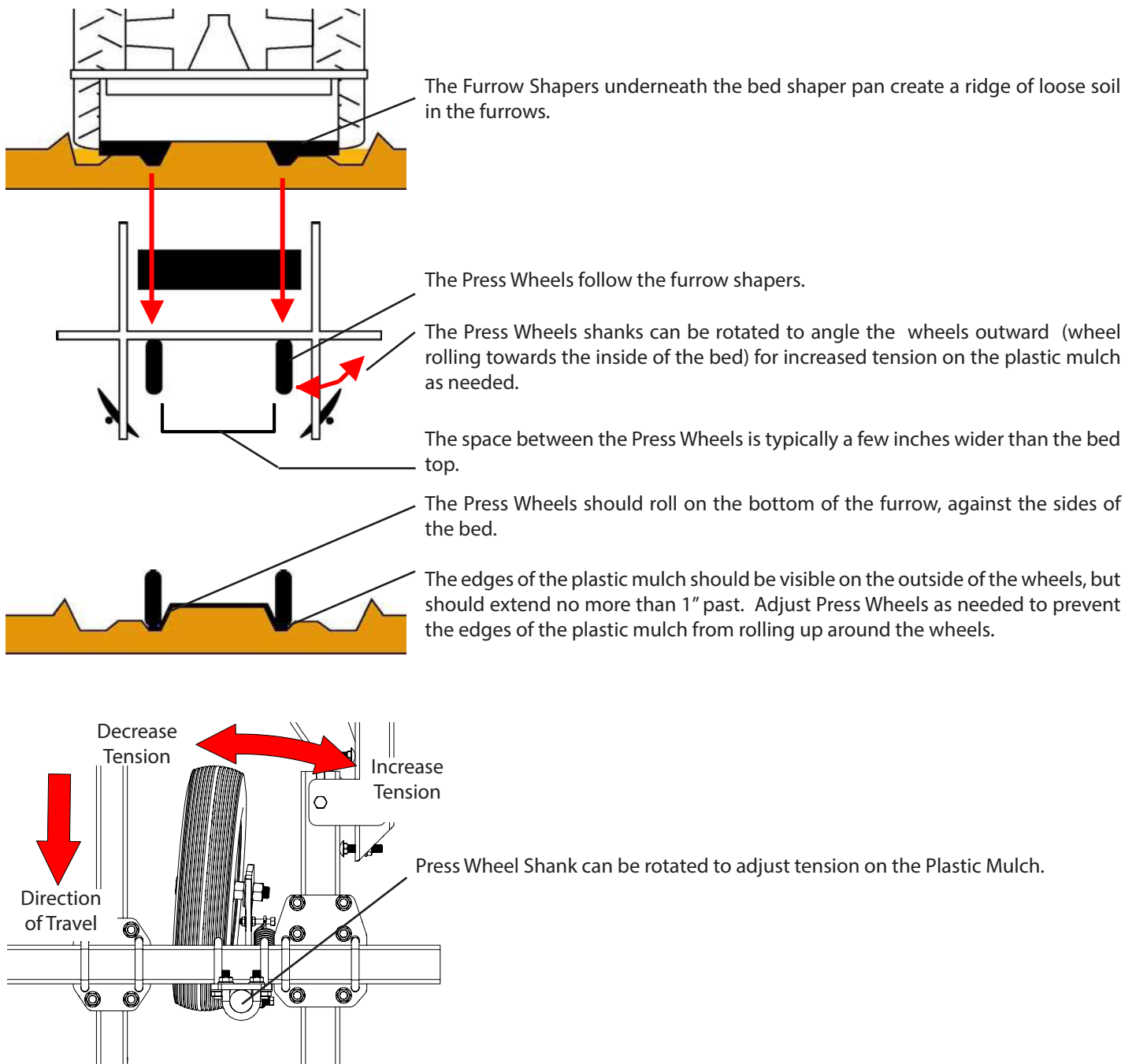


Figure 13: Press Wheels

Operation

8.) Press Wheels...Continued

- The Press Wheels can be made rigid to act as gauge wheels for allowing the covering disks to have depth control based on the bottom surface of the furrow (Figure 14).

IMPORTANT: Do not use Rear Gauge Wheels if Press Wheels are rigid, or if the plastic layer toolbar clamps are in place (Figure 16).

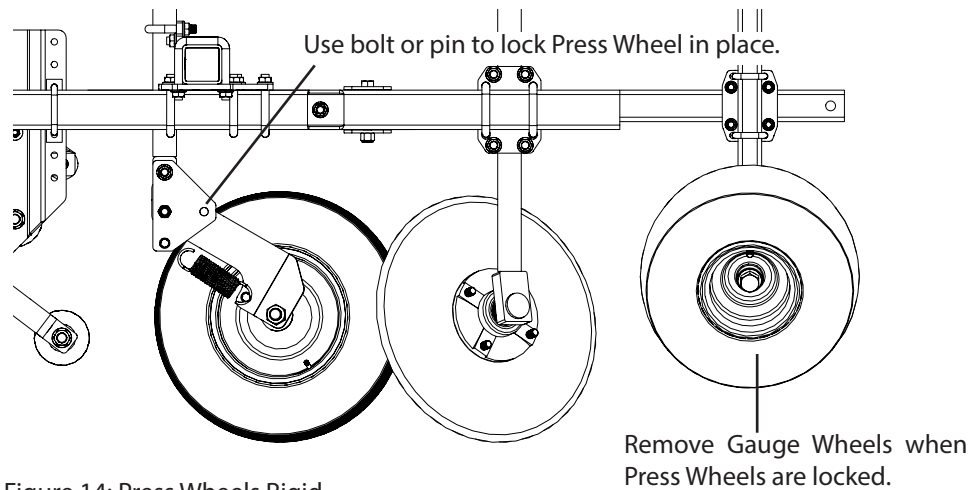
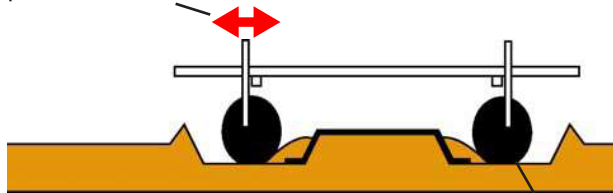


Figure 14: Press Wheels Rigid

9.) Covering Disks

- The Covering Disks catch the ridge of soil from the furrow shapers and covers the edges of the plastic mulch.
- The Covering Disks can be adjusted laterally and the shanks can be rotated to angle the disk.
- NOTE: The adjustment of the Covering Disks can be done in advance of use, but may need to be adjusted during use based on conditions.

Adjust the covering Disks laterally as needed to catch the ridge of soil and cover the edge of the plastic mulch.



Set the depth of the Covering Disk even with the bottom of the furrow.

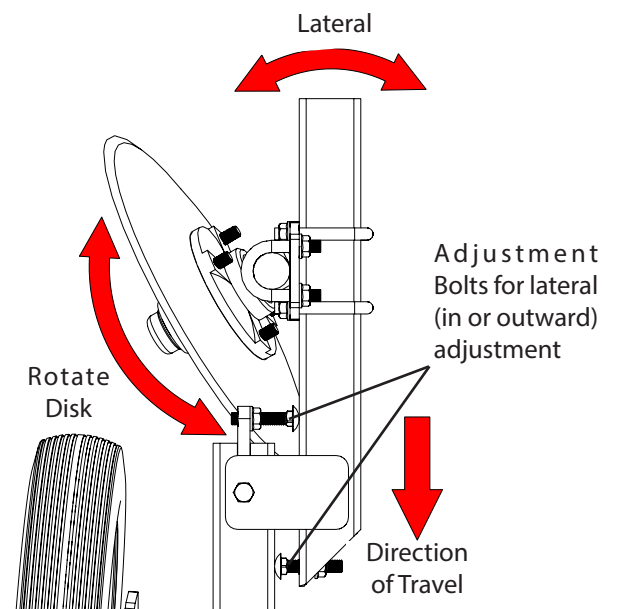


Figure 15: Covering Disks

Operation

10.) Rear Gauge Wheels

- The Gauge Wheels at the rear of the unit allow the mulch layer frame of the machine to float and follow the surface of the covering soil.

IMPORTANT: Do not use rear gauge wheels if the plastic layer portion of the machine is clamped in place. Remove clamps to allow the plastic layer to float.

- NOTE:** The adjustment of the Gauge Wheels can be done in advance of use, but may need to be adjusted during use based on conditions.

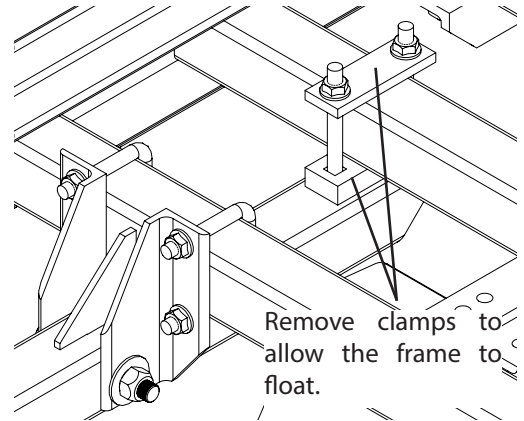
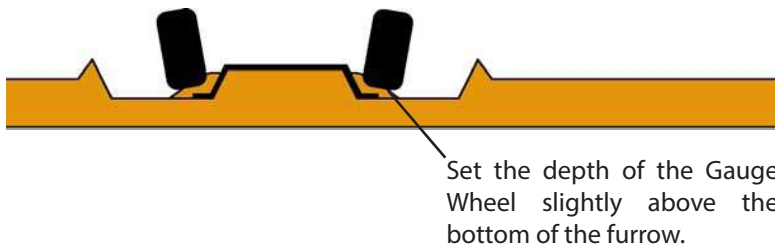


Figure 16: Rear Gauge Wheels

11.) Field Preparation

- It is important to properly prepare the field according to soil conditions before shaping the mulch beds. Improperly prepared soil may result in an inability to shape the mulch beds or cause damage to equipment.

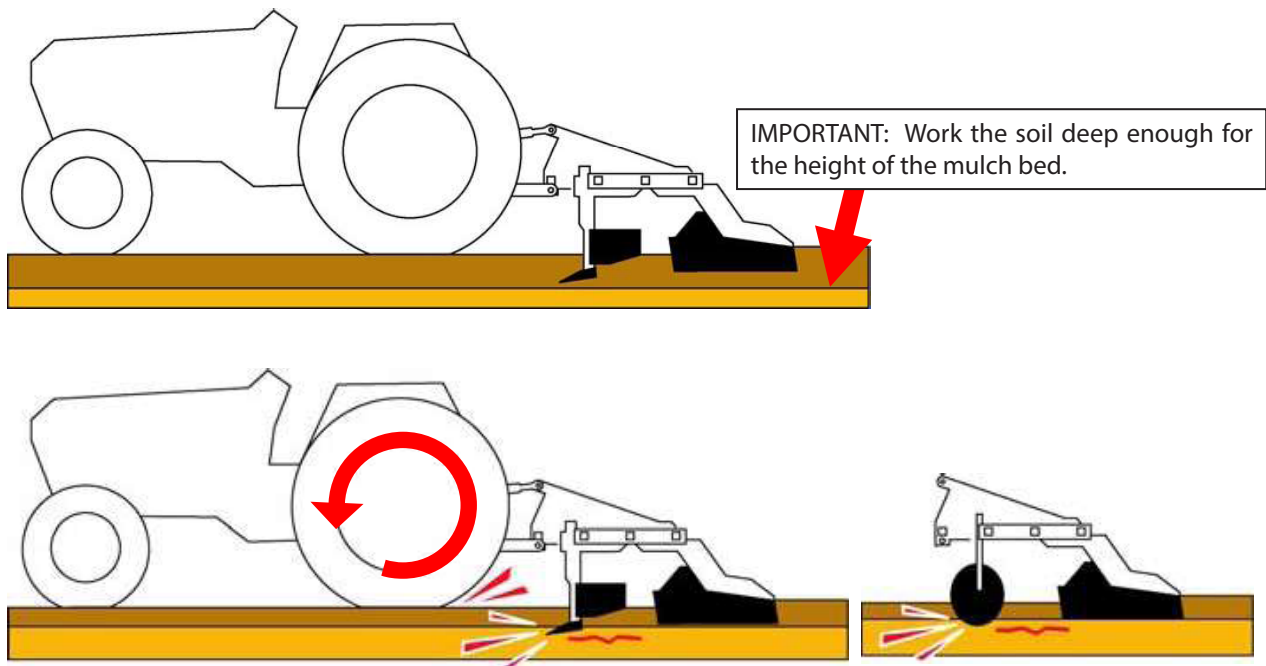


Figure 17: Field Preparation

Operation

During Operation

1.) Adjust the Tractor Hitch

- Hook the machine up to the tractor hitch. Make adjustments to the top link as needed to level the machine.
- Let the full weight of the machine down, and make minor adjustments to the amount of soil buildup / flow by adjusting the top link.
- NOTE: If the center of the bed is not firm, or has shallow spots in the center, add weight to the shaper pan.

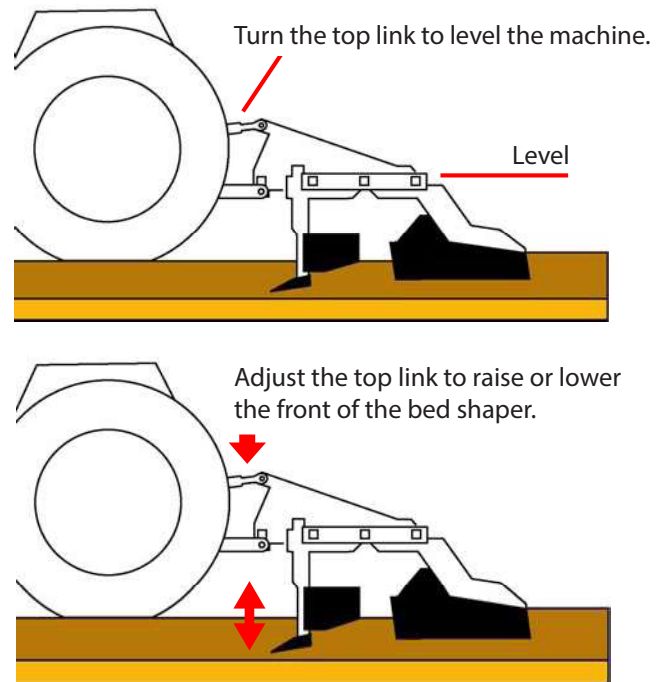


Figure 18: Tractor Hitch Adjustment

2.) Loading / Setup of the Mulch Roll

- Adjust Mulch Roll Centering Brackets to fit roll. Unbolt the centering plate and add washers to move inward as needed (Figure 19).
- Place the mulch roll on top of the Mulch Rollers (Figure 20).
- Feed the mulch over or under any of the rollers, and underneath the Ground Roller (Figure 21).
- Adjust tension on the Ground Roller by adjusting the Eye Bolt that the Ground Roller Spring is attached to (Figure 22).
- Center the Mulch Rollers between the Mulch Roll Centering Plates by adjusting the Centering Screw to make sure that the Roll Brake Thumbscrew has sufficient range to be adjusted (Figure 22).
- To apply some resistance as needed to the mulch rollers by adjusting the Roll Brake Thumbscrew (Figure 22) to make the plastic mulch stretch tighter over the bed.

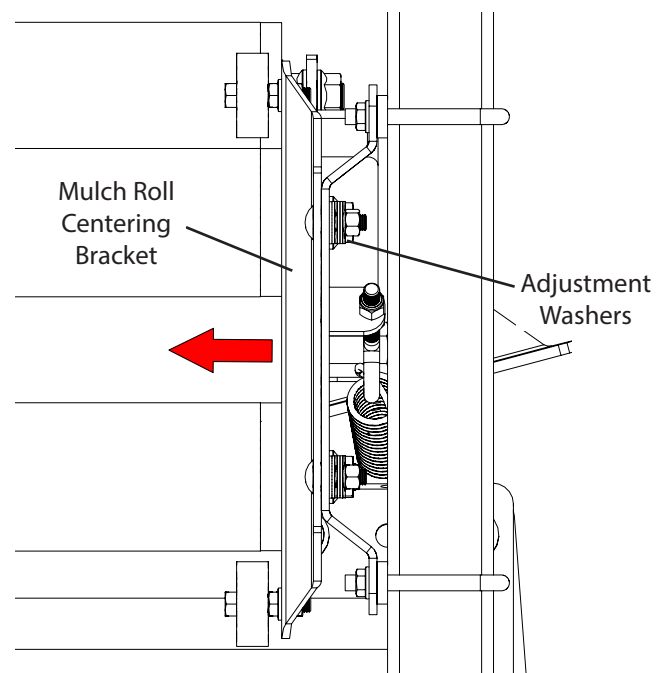


Figure 19: Mulch Roll Centering

Operation

2.) Loading / Setup of the Mulch Roll...Continued

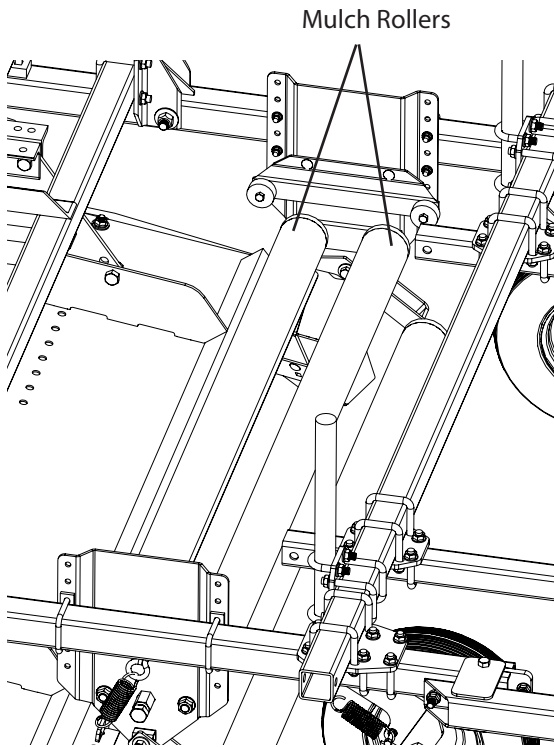


Figure 20: Loading Mulch Roll

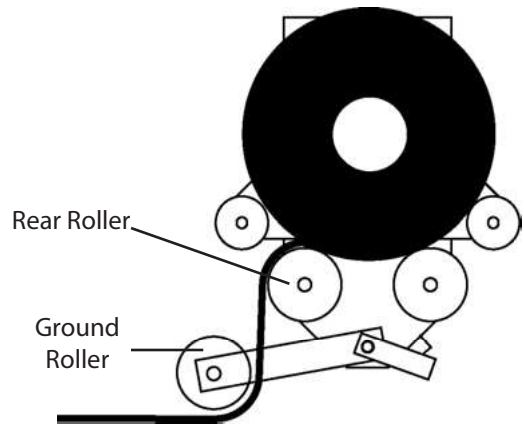


Figure 21: Plastic Mulch Rollers

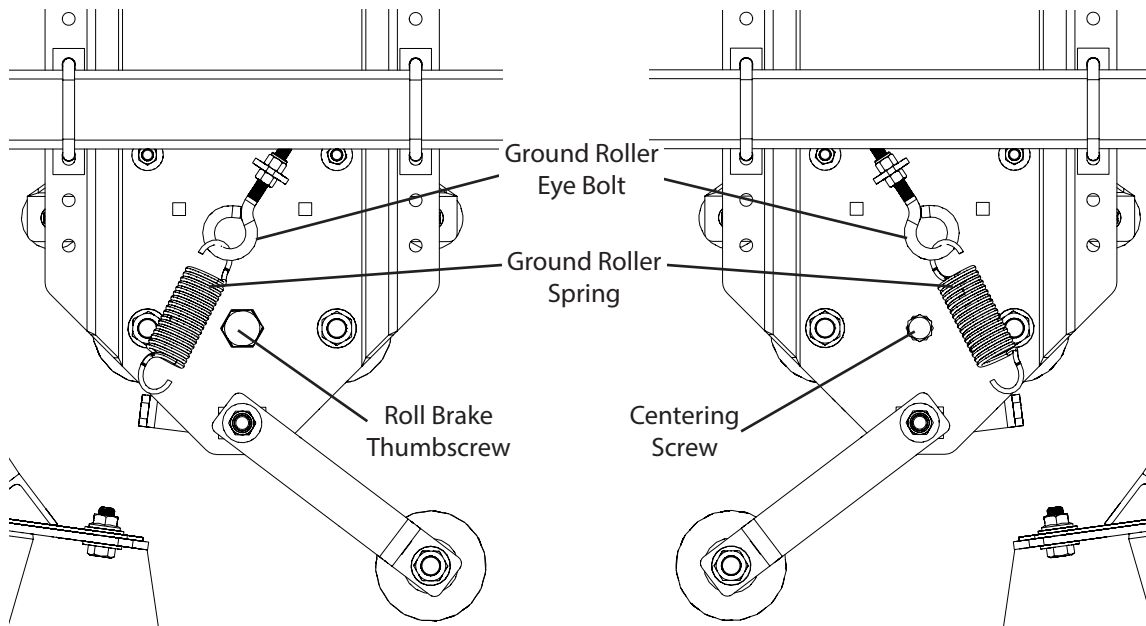


Figure 22: Mulch Roller Braking and Ground Roller Tension

Operation

3.) Plastic Mulch Tension on Bed Top

- After starting a row, if the plastic stretched over the top of the bed isn't tight enough, or is tearing, adjust the tension on the plastic mulch by rotating the Press Wheel.
- NOTE: Make sure to adjust the Press Wheel spacing to make sure that the edges of the plastic mulch are just past the tire (Figure 23).

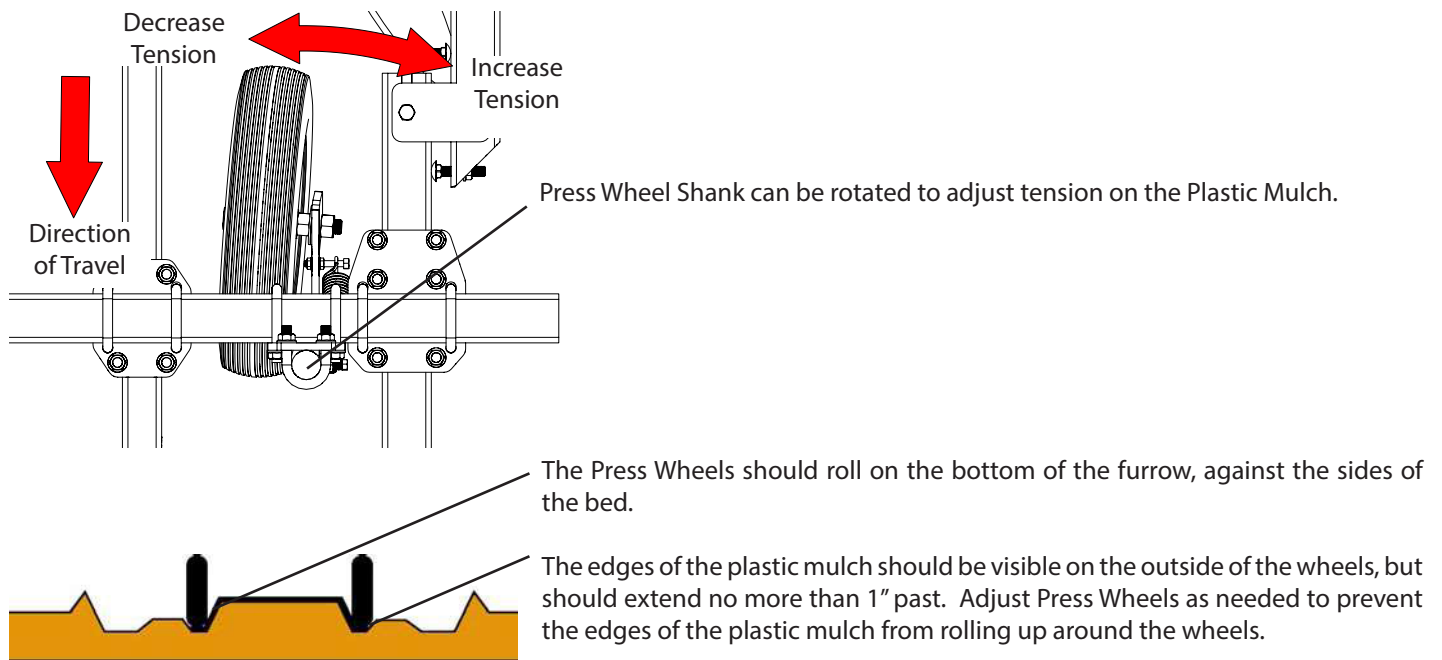


Figure 23: Plastic Mulch Tension Adjustment

4.) Soil Coverage on Plastic Edges

- If there is too much or too little soil covering the edges of the plastic mulch, adjust the Covering Disk.
- The Covering Disks can be adjusted laterally and the shanks can be rotated to angle the disk.
- NOTE: The Covering Disk can be installed on the opposite side of the toolbar for more space between Press Wheels and the Disk.

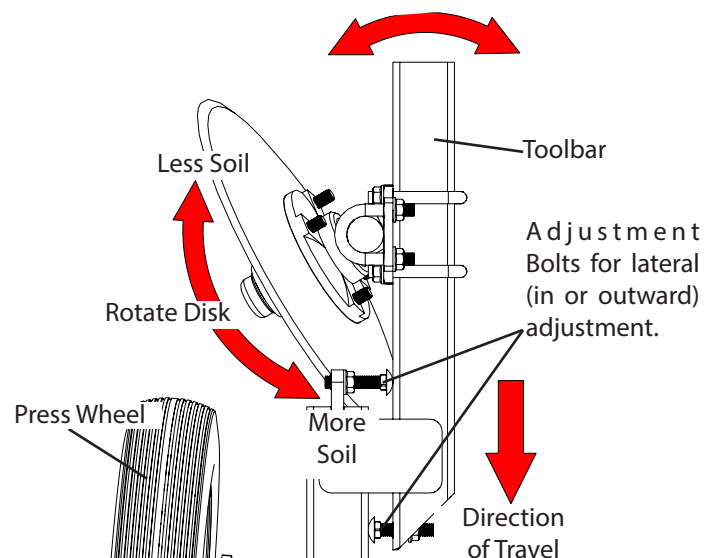


Figure 24: Increase or Decrease Soil Coverage

Operation

5.) Shaping Raised Beds and Laying Plastic Mulch

When shaping raised beds there are different driving patterns based on how the bed rows are laid out.

Driving Patterns for Raised Beds with Common Furrows

When shaping raised beds with common furrows and laying plastic mulch in a single pass, there are two driving patterns to use in order to make sure that the bed top stays level after the first row (preventing the example in Figure 25 below).

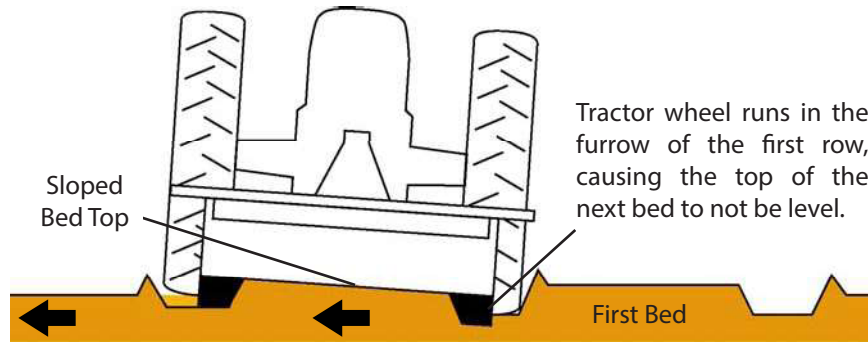


Figure 25: Unlevel Bed Tops After First Row

Driving Pattern 1 (First Row in Field Center)

This method keeps the machine level while the tractor is not level due to the tire riding in the furrow of the previous row.

1. Start the first row in the center of the field.
2. Adjust the tractor hitch linkage to level the machine for the rest of the rows.
3. Run the next row on one side of the center row, and then moving to the opposite side of the center row to do the next row from the opposite direction.

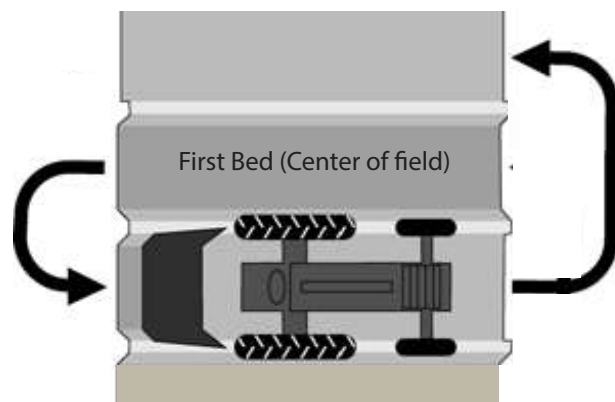
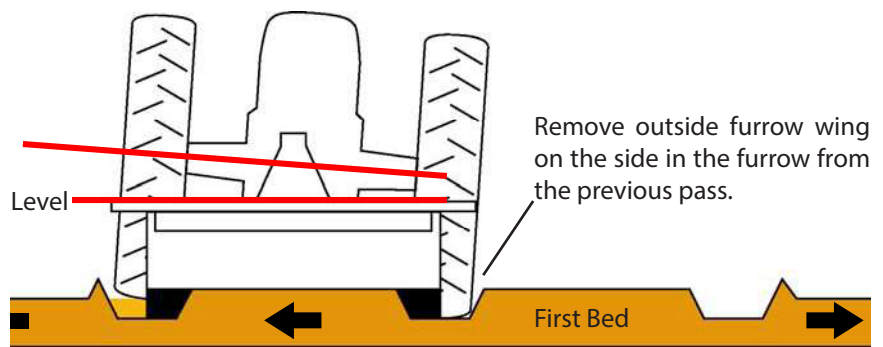


Figure 26: Common Furrow Driving Pattern 1

Operation

Driving Pattern 2 (Alternating Rows)

This method alternates the rows being shaped, allowing the tractor and machine to stay level.

1. Start the first row at the side of the field.
2. Form every other bed first, then come back through and form the beds in between.
3. NOTE: When forming the in between beds, it may be necessary to remove the outside furrow wings.

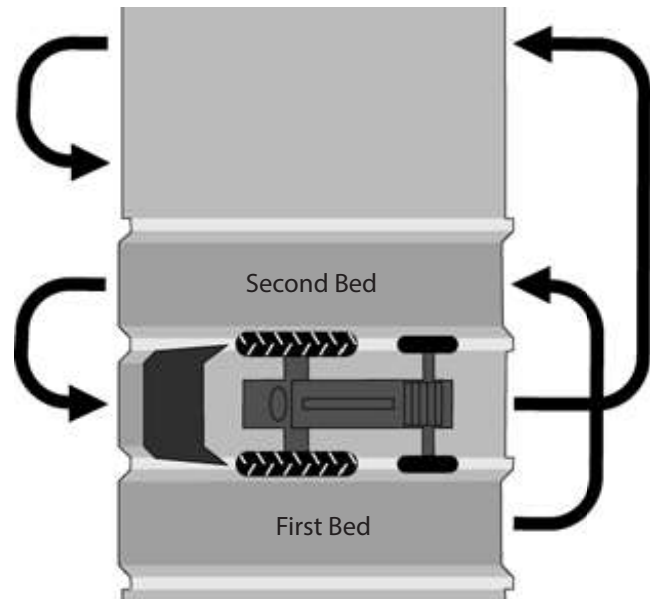


Figure 27: Common Furrow Driving Pattern 2

Driving Pattern for Raised Beds with Space Between

Since the beds are spaced apart in this type of bed system, the tractor and machine both remain level. This allows the first row to start on one side with rows being formed across the field from both directions.

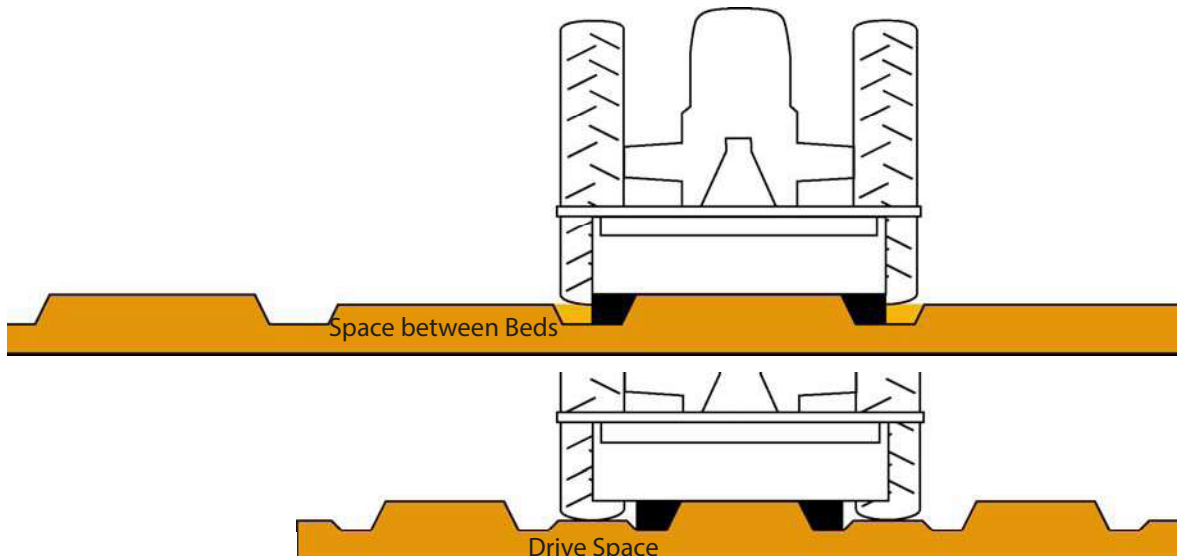


Figure 28: Space Between Beds

Troubleshooting

-Information for fault diagnosis and remedy of problems in operation.

Issue	Probable Cause	Solution
Machine tends to drift sideways.	Furrow Shovels and Shaping Disks set too deep.	Adjust depth of Furrow Shovels and Shaping Disks (See Furrow Shank Depth and Shaping Disk Depth).
	3pt top link is set to have the machine too low.	Adjust the 3pt top link (see Adjusting the Tractor Hitch).
	3pt links can sway too much.	Adjust the 3pt hitch side sway.
Bed Tops are not firm, or have shallow spots.	The bed shaper isn't pressing down enough.	Add weight to bed shaper.
	Tractor's 3pt hitch isn't low enough, or draft control is lifting.	Adjust as needed. (See Adjusting the Tractor Hitch.)
	Shaping Disks may be too close together.	Move Shaping Disks apart (see Shaping Disk Spacing and Angle).
	Soil not tilled deep enough.	See Field Preparation.
Plastic Mulch too tight or tearing.	Too much angle on the Press Wheels.	Rotate the shank for the Press Wheels to make the wheels straighter (see Adjust Plastic Mulch Tightness on Bed Top).
	Too much tension on the Roll Brake.	Adjust Roll Brake Thumbscrew out to reduce braking (see Loading / Setup of the Mulch Roll).
Plastic Mulch too loose on Bed Top.	Press Wheels may be angled too straight.	Rotate the shank for the Press Wheels to make the wheels angled (see Adjust Plastic Mulch Tightness on Bed Top).
	Too little tension on the Roll Brake.	Adjust Roll Brake Thumbscrew in to increase braking (see Loading / Setup of the Mulch Roll).
Too little soil covering the Plastic Mulch edges.	Covering Disks may not be positioned laterally in the furrow.	Adjust Covering Disk toolbar (see Adjust Amount of Soil Covering Plastic Edges).
	Covering Disks may not be angled enough.	Rotate the Covering Disk Shank to angle the disk (see Adjust Amount of Soil Covering Plastic Edges).
	Rear Gauge Wheels lifting Covering Disks out of the furrow.	a. Adjust Gauge Wheels up.
		b. Remove Gauge Wheels, and make Press Wheels rigid (See Press Wheels).
	c. Adjust depth of Covering Disk.	

Maintenance and Adjustments

Maintenance Schedules

-Information concerning periodic maintenance tasks and the recommended frequency.

Frequency	Maintenance Tasks
Every Use	Check for broken or stressed parts.
	Check for loose connections (hardware).
	Check tire pressure (visual).
Every Season	Check condition of wear parts.
	Repack Shaping Disk and Covering Disk hub bearings with grease.
	Paint or grease metal surfaces that have been worn by use to prevent corrosion.
Refer to Owner's Manuals	Drip Tape Applicators (If equipped): Refer to your Owner's Manual for service intervals and details.

Maintenance Procedures

-Instructions for each task, including identification of any tools, test equipment, replacement parts or other service required.

Every Use

- Perform a visual and physical inspection for any worn parts, loose bolts, or other visible problems. Make all necessary repairs before operating equipment. To order parts or receive technical help, please contact your local CropCare® dealer.
- Check tire pressure. Visually inspect to make sure the pressure is not too low.

Every Season

- Check conditions of the following wear parts (see General Terminology for location of items on equipment):
 - Furrow Shovels
 - Furrow Wings
 - Shaping Disks
 - Covering Disks
 - Furrows Shapers
 - Furrow Shoes
 - Poly Lining for Bed Shaper (If equipped).
- Paint or grease worn metal surfaces of wear parts listed above to prevent or reduce corrosion.
- Repack Shaping Disk and Covering Disk hub bearings with General-purpose lithium grease.

Maintenance and Adjustments

Maintenance Materials

Specifications, including quantities / capabilities for normal maintenance materials, such as:

- General-purpose lithium grease.
- Paint

Adjustments

Information concerning adjustments required to adapt the machine to different tasks or operating conditions.

- See the Operating section of this manual for adjustments to be made before and during use.
- The machine can be used as a bed shaper only. To use it in this way, remove the rear portion of the machine that contains the plastic mulch laying equipment.

Storage

- Park the equipment on a hard level surface, away from all human and livestock activity.
- Do not permit children to play on or around equipment.

Specifications

General Specifications

3PT Hitch Category:.....	Cat. 2
Tractor Horse Power Requirements:.....	45-80 HP
Bed Height Range (Based on purchased Bed Height Options):	4"-10"
Bed Row Spacing:.....	54" to 72"
Plastic Mulch Width:.....	48" to 60"
Weights (Approx.) (Does not include Plastic Mulch or Drip Tape Rolls):	
Unit:.....	1,300 lbs.
Unit (Equipped with Single Drip Tape Applicator Option):.....	1,385 lbs.
Unit (Equipped with Double Drip Tape Applicator Option):.....	1,470 lbs.

Accessories and Attachments

Information on accessories and attachments available for the machine and / or approved for use with the machine.

- Drip Tape Applicators (Single or Dual Reel). See Drip Tape Applicator Owner's Manual for details.
- Bed Height Options: (see the Bed Top Width, Furrow Width, and Bed Height section for details.)
 - 3"-4"
 - 5"-6"
 - 7"-8"
 - 9"-10"
- Poly Liner for Bed Shaper
 - Installed between the Shaper Pan and the Furrow Shapers (see Figure below).
 - Drill holes as needed to install Furrow Shapers.

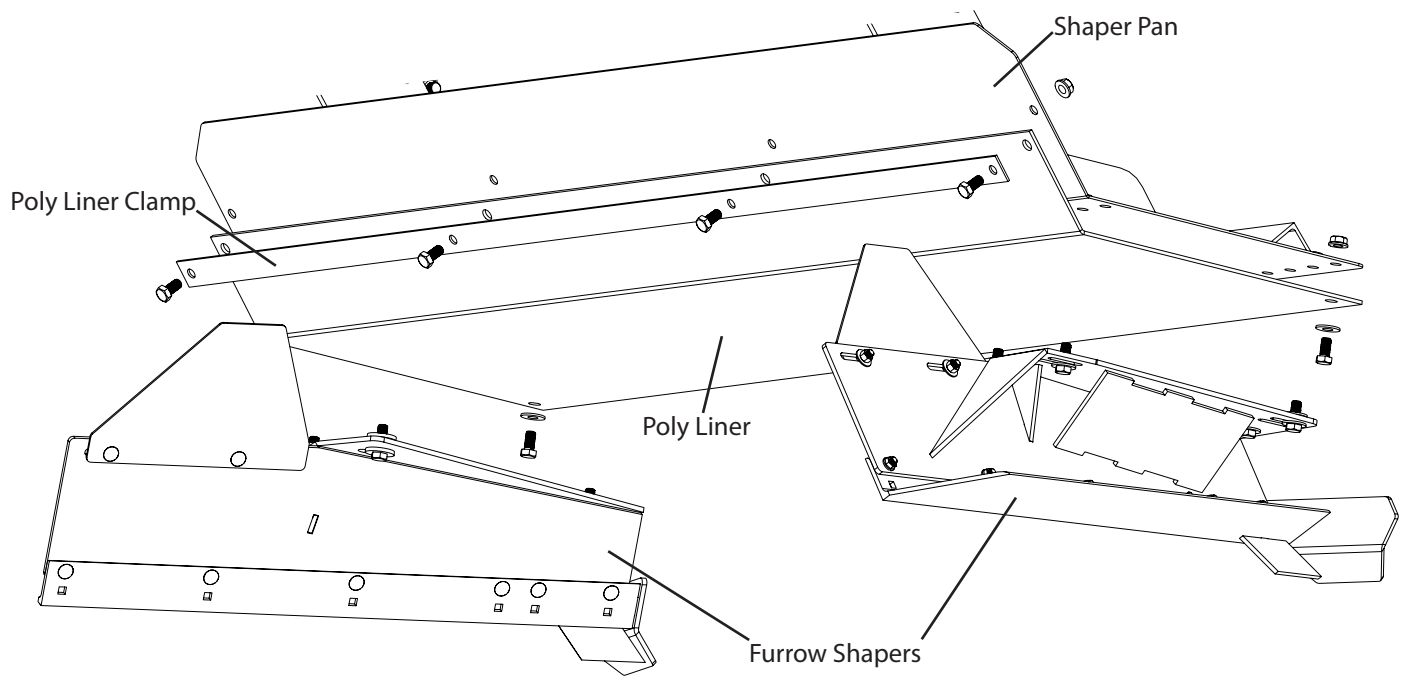


Figure 29: Optional Poly Liner Install

Transportation



Transporting the Equipment



- When transporting the equipment on public roads, always follow state and local regulations regarding safety and transportation requirements. Use the necessary lights and slow moving vehicle (SMV) emblems.
- Never exceed the tractor's tow ratings.
- Check lighting before traveling.
- Make sure SMV sign is not blocked or bent.
- Plastic layer toolbars can be clamped in place to make the rear portion of the machine rigid (Figure 30).

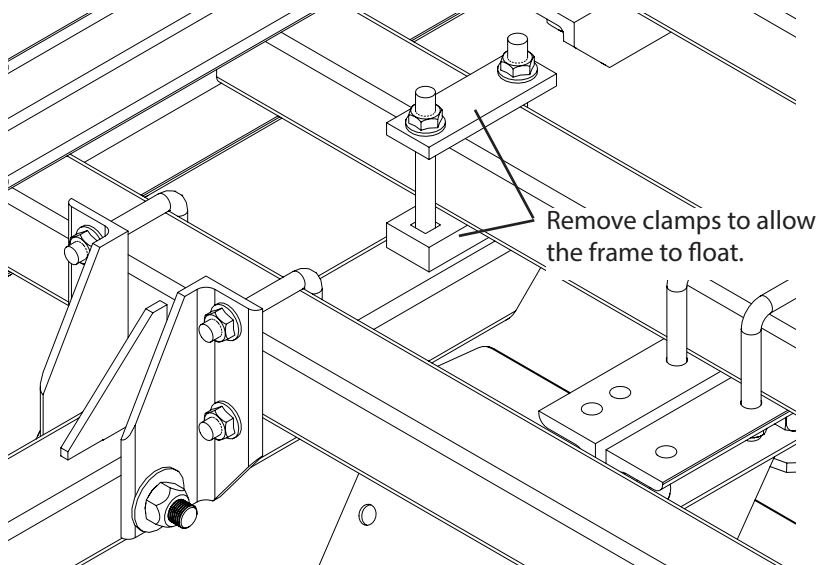


Figure 30: Plastic Layer Clamps

CropCare® Limited Warranty

Warranty Coverage

CropCare® hereby provides a Limited Two (2) Year Warranty on the Products manufactured by CropCare® that such Products shall be free from manufacturer's defects in any of the Product's components in the 24 month period following the original date of purchase from the authorized dealer (the "Warranty Period"). CROPCARE® HEREBY EXCLUDES AND DISCLAIMS ANY AND ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE AND ANY WARRANTY ARISING FROM USAGE OF TRADE OR COURSE OF DEALING. Defective components will be repaired or replaced at the discretion of the manufacturer. It is the responsibility of the purchaser to return warranted components to the manufacturer. This Product Warranty is limited to the repair or replacement of Product components only. CROPCARE® IS NOT TO BE HELD LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. This Product Warranty covers the purchaser of this Product and any other owners who own it during Warranty Period.

To retain the Product Warranty, the Product must be operated and maintained as set forth by its owner's manual. For warranty service, please have a copy of the purchase invoice available.

Warranty is Void if:

1. The Product has been subjected to, in the opinion of CropCare®, negligent handling, misuse, an accident or if the instructions in the owner's manual were not completely followed.
2. The Product's components have been altered in any manner or repairs have taken place with unapproved parts.

Getting Warranty Service

All Product Warranty claims must be made through an authorized CropCare® dealer. All warranty claims must be submitted with an invoice or a proof of purchase that denotes the purchase date and place of purchase. If you have any questions or comments concerning this warranty, please contact an authorized CropCare® dealer.

Ordering Parts

Please contact your authorized CropCare® dealer to order replacement parts for your product.

Parts Lists & Breakdowns

- Parts Lists and Breakdowns are available on www.CropCareEquipment.com/equipment-build-lists.php.
- Parts Lists and Breakdowns can also be acquired through a dealer.

CROPCARE

by PBZ[®]

Manufactured by PBZ LLC
A Paul B Zimmerman Inc. Company
www.CropCareEquipment.com