THE LEADING EDGE

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A PUBLICATION DEDICATED TO MAXIMIZING YIELD POTENTIAL

No-till Planting Trouble Shooting Guide

\checkmark Preliminary Checklist for all Planters regardless of Make and Model

It is recommended that the following items be checked before planting:

- Make sure tire pressure on the planter is set to the operator manual's recommendations
- Make sure the seed double disc openers are set properly and not excessively worn
- Remember to plant with the planter frames and planter units level with the soil
- When planting make sure the planter hitch is set no lower than the recommended height as stated in the planter's operator manual
- Make sure the soil is not too wet. If the soil is too wet, any coulter attachments on the planter will not be able to adequately break up the soil, and the closing wheels will merely pack the damp soil over the seed instead of effectively firming it. As a result, the potential drying and cracking of the seed trench may leave the seed bed exposed and possibly effect seed germination.
- Make sure the soil has had sufficient time to warm up. IF time and weather permit, it may be necessary to delay planting for an additional period of time compared to conventional tillage practices.





Illustration II. - Planter which has not been leveled

For conventional tillage practices this configuration will work, however, this is not the case with no-till farming. With the planter in this position, the unit mounted coulter is running below the seed double disc openers, and the frame mounted fertilizer coulter is running at a depth greater than $3 \frac{1}{2}$ ". These depths are not recommended as they will greatly affect the performance of each attachment. For example, with the unit mounted coulter running below the seed double disc openers, the formation of air pockets below the seed is very likely. Also, notice from the illustration that seed placement is erratic.

$\sqrt{1}$ In-the-field Checklist for all Planters regardless of Make and Model

It is recommended, while in the field, the following periodic checks be made to ensure the effectiveness of your planter and planting methods:

- Make sure the closing wheels are adequately closing the seed trench. The closing wheels require a certain amount of loose soil in order to effectively close the seed trench.
- Make sure the planter frames and planter units are level with the soil. This is done while the planter is lowered in its normal

planting position. An unleveled planter can cause one or two things. First, it may prevent the closing wheels from sufficiently firming the seed trench. Second, it may force the unit mounted coulters too deep into the soil causing them to work soil at a level below seed placement. This may result in the formation of air pockets below the seed which may effect the germination of the seed.

For the following some soil may need to be removed from the top of the seed trench for visual verification .

- Make sure there is good soil to seed contact.
- Make sure the seed is planted deep enough and in a moist seedbed.
- Make sure residue is not being hairpinned into the seed trench. Residue which becomes lodged in the seed trench, will tend to draw moisture out and away from the seed.

Problem	Possible Cause	Possible Remedy
Seed trench not closing	Insufficient down pressure on the closing wheels	Increase the down pressure on the closing wheels
	The unit mounted coulters are not providing enough soil disturbance	Ensure that <i>in</i> <i>operation</i> the planter hitch is set to the correct height (consult the planter's operator manual)
		Use wavy coulter blade
		Adjust coulter blade no deeper than seeding depth
		Install spike closing wheels
Poor soil to seed	The planter unit and or frame mounted coulters are running too deep	Properly adjust coulter height & ensure that in operation the planter hitch is set to the correct height

contact	The double disc openers are excessively worn	Replace the openers	
	The soil is too wet	Allow the soil time to dry	
Seed being planted too shallow	Excessive down pressure on the closing wheels	Decrease the down pressure on the closing wheels	
	The planter needs additional ballast	Add ballast to the planter	
	The double disc fertilizer openers are causing too much soil disturbance in the path of the seed double disc opener gauge wheels	Double disc fertilizer openers should be mounted a minimum distance of $2 \frac{1}{2} - 3^{"}$ from either side of the row or the planter should be equipped with single disc fertilizer openers	
	Damp soil is collecting on the seed double disc opener gauge wheels	Allow the soil time to dry	
	Planter unit depth is improperly set	Adjust the depth setting of the planter unit	
Erratic seed	Excessive residue in the seed trench	Use a residue clearing device	
	Low tire pressure	Inflate tires to the recommended psi	
	Excessive speed causing the planter unit and the unit mounted coulters to bounce	Decrease planting speed and increase down pressure spring tension	
	Dry drive chains causing jerky movement	Lubricate drive chains	
	Planter unit bounce	Add ballast to the planter	

placement				
Starter fertilizer is not being placed in the proper zone by the double disc fertilizer openers	Most double disc fertilizer openers are not built for pinpoint fertilizer placement	Equip planter with single disc fertilizer openers for pinpoint fertilizer placement		
Row markers are not leaving a visible mark	Row markers are too light or incorrect marker blade setting is being used	Use a notched marker blade or reset angle of marker blades		
Notice – The information contained in this guide is offered in good faith by Yetter Mfg. Co to further the understanding of no-till farming. However, the use of the information provided is beyond the control of Yetter Mfg. Co and in no case shall Yetter Mfg Co or any seller of its products be responsible for any damages which may occur from the use of this information. All such risks shall be assumed by the user.				

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