Tillage

Disc-O-Vator

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Models Affected: 8321DV, 8324DV, 8326DV, 8328DV, 8333DV, 8537DV, 8544DV, 8548DV, 8552DV, 8315DVN, 8318DVN, 8321DVN, 8324DVN

General Information

Proper servicing and adjustment is key to the long life of all farm equipment. With careful and systematic inspection of equipment, costly maintenance, time and repair can be avoided. The following information will assist with recommended servicing and adjustments:


Hydraulic Hose Hookup:
Great Plains hydraulic hoses have color coded handle grips to help hookup hoses to the tractor outlets. Hoses with the same color use the same remote.

Use the following table to assist with hooking up the implement:

<table>
<thead>
<tr>
<th>Color</th>
<th>Hydraulic Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Lift (2 hoses)</td>
</tr>
<tr>
<td>Green</td>
<td>Fold (2 hoses)</td>
</tr>
<tr>
<td>Red</td>
<td>Gang (2 hoses)</td>
</tr>
<tr>
<td>“Brakes”</td>
<td>Hydraulic trailer brakes (option)</td>
</tr>
</tbody>
</table>

Leveling The Machine Front To Rear:
Note: Prior to leveling the machine front to back, remove the transport locks and unfold the machine on a level surface.

1) Lower the machine so that the sweeps are 2 to 3 inches off of the ground on the center frame.
2) Using a wrench loosen the jam nut (1).
3) Adjust the turnbuckle at either adjustment nut (2) so that the front of the machine runs slightly deeper then the back.
4) Once properly adjusted, re-tighten the jam nut (1).

Leveling The Machine Side To Side:
Wings should be adjusted to match the center section of the machine.

1) Adjust the eye bolt on each wing to match the center section. Lengthening the bolt will shallower up the wings while shortening the bolt will allow the wings to run deeper.
Disc Gang Adjustment:
Disc gangs are designed to run 1/2" to 1" shallower than the cultivator sweeps. At this depth, the sweeps are allowed to work in firm ground which improves trash flow.

1) Adjust the depth gauge to read +1/2" to +1". Do not run the disc or coulter gangs in the RED ZONE. Note: Disc blades should only be ran in the RED ZONE when using 18” blades that are nearing the end of their wear life.

Adjusting The Depth Stop:
1) Lower the machine to the desired working depth and set the depth stop at the front of the machine to ensure consistent depth every pass. Note: Once set, if an adjustment is necessary, one full turn of the depth stop handle is equivalent to 1/4" of depth.

Spike Drag Setting:
If the spike drag attachment is present, start with five chain links hanging from the bottom drag arm slot (this is a starting point for the worst conditions). The cleaner the ground, the shorter the pull chain may be pulled.

On the spike drag, one of the links in the first row of angles is turned over to allow trash to start flowing easier. Note: Make sure that the spike drag is never pulling off of the hang chains. If so, shorten the pull chains.
HD Spike & Reel Settings:

On HD spike drags, start with five chain links hanging from the bottom drag arm slot (this is a starting point for the worst conditions). The cleaner the ground, the shorter the pull chain may be pulled. Note: Make sure that the drag is never pulling off of the hang chains. If so, shorten the pull chains.

1) Adjust the nut (3) so that the spring (4) is just making contact with the front plate (5).

2) Turn the nut (3) and additional 1” further on the spring rod to set the springs pre-load.

3) Lengthen the turnbuckle (6) to adjust the front mini shank (7) to run more aggressive or shorten the turnbuckle to run more passive.