Field Cultivator

Document # TLUS150C-0001A  Date: February 20, 2017

Models Affected: 8323FC, 8328FC, 8332FC, 8336FC, 8539FC, 8544FC, 8548FC, 8551FC, 8556FC, 8560FC

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:

Ensure that the tractor horsepower meets the minimum requirement for the implement being pulled. This is important so that the implement can work as efficiently as possible.

1) Connect the Field Cultivator to the tractor using a locking style pin. Ensure that the safety lights and chain are hooked up.

Great Plains hydraulic hoses have colored coded handle grips to help hook up hoses to the tractor remotes. Hoses with the same color use the same remote.

2) Use the following table to assist with hooking up the hydraulic hoses.

<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>
</tbody>
</table>

Leveling Front-to-Rear:

Note: Front-to-rear leveling of the machine should be done on a concrete slab or a level surface.

1) Lower the machine so that the sweep are 1-2 inches off of the ground on the center section.

2) Loosen the jam nut (1).

3) Adjust the turnbuckle (2) at the front of the machine to level the machine front-to-rear. Note: Shortening the turnbuckle will bring the front down, while lengthening the turnbuckle will bring the front up.

4) Level the machine so that the front shanks are just slightly deeper or lower than the back and re-tighten the jam nut.

5) Repeat steps 2-4 for the other side of the center frame. Adjust the inner wing gauge wheels the same.
Wing Adjustment (3 or 5 Section Wings):
Set the 3-section wings and 5-section inner wings to match the depth of the center section. This is done by adjusting the wing pull bar assembly on each wing.
1) Loosen the jam nut (3), and adjust the adjustment rod (4).
2) Turn the adjustment rod (4) counterclockwise to run shallower or clockwise to run deeper.
3) Re-tighten the jam nut (3).
Note: In some conditions the wings will need to be set slightly lower than the center section, as the center section may tend to run deeper behind the tractor tires.

Outer Wing Adjustment (5-Section):
Set the outer wings to match the overall depth of the center section. This is done by adjusting the adjustment bolt assembly on each wing.
1) Loosen the jam nut (5), and adjust the adjustment rod.
2) Length the adjustment rod (6) counterclockwise to run shallower or clockwise to run deeper.
3) Re-tighten the jam nut (6).
Note: In some conditions the wings will need to be set slightly lower than the center section, as the center section may tend to run deeper behind the tractor tires.

Gauge Wheel Adjustment (Optional) (5-Section Outer Wings):
Once the machine has been adjusted and set to the desire working depth, the gauge wheels can be adjusted. Note: The gauge wheels (if equipped) should be set in the field position to be 1/2 to 1 1/2 inches off the ground.
1) Loosen the set screws (7) on each gauge wheel.
2) Turn the jack handle (8) to adjust the spindle receiver. Adjusting the jack handle counterclockwise will run the wheel closer to the ground while turning the jack handle clockwise will cause the wheel to run further away from the ground.
3) After adjusting the gauge wheel to the desired position, re-tighten the set screws (7).
**Spike Drag Settings:**

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 the trash to start flowing through the drag easier. **Note: Make sure that the drag is never pulling off the hang chains. If so, shorten the pull chains.**

---

**Coil Tine Settings:**

To change the angle of the coil tine, rotate the locking pin (9) and move the adjustment lever (10) forward or backwards. Moving the lever towards the rear of the machine makes the drag more aggressive while moving the lever towards the front of the machine will allow residue to flow through easier.

The adjustment lever has four positions and will change the coil tines several degrees.

Rotate the locking pin (9) back to its engaged position when the desired angle is achieved.

---

**Heavy Reel Settings:**

The reel down pressure may be adjusted by loosening the jam nut (11) and then shorten the spring for less down pressure or lengthen the spring for more down pressure.

When the desired amount of spring pressure is achieved, re-tighten the jam nut (11). **Note: It is recommended to run little or no down pressure in wet or sticky field conditions.**