

### Separation Adjustment Procedure

1. As the disc on each opener wears, seed/fertilizer separation will be reduced.
2. New discs are 18" in diameter. The wear of a disc can be determined by measuring from the top of the disc hub to the outer edge of the disc (Figures 1-2). Trying to measure seed/fertilizer separation from the bottom of the seed boot is NOT a reliable method (Figure 3). The disc hub is 6" in diameter. To get the worn disc diameter, simply multiply your measurement by 2 and add 6". For example, if you measured 5-1/2" from the hub to the disc edge, your worn disc diameter is  $5.5 \times 2 + 6 = 17$ ".



Figure 1



Figure 2



Figure 3

3. Correct separation of disc furrow to seed bed is recommended to be 1.5". It is acceptable to run until the separation is down to 1" before making a separation adjustment. However, waiting longer than this will cause excessive wear to the seed boot and can compromise the seed bed.
4. Always adjust separation for half of the total disc wear. For example, if the disc is down to 17" from the factory 18" ( $18 - 17 = 1$ " total wear), move up the seed boot assembly 1/2" (indicator peak-to-peak or valley-to-valley) to regain full 1.5" separation.

5. The seed boot adjustment indicators are located on the sides of the seed boot mount and the plate on the opener frame (Figure 4). The distance from an indicator peak to an adjacent valley is 1/4".



Figure 4

6. Loosen center bolt of seed boot mount and raise entire seed boot one adjustment. Retighten nut ensuring that mount is seated properly.



Figure 5 (before adjustment)



Figure 6 (after a 1/4" adjustment)

7. The packer wheel depth will need to be raised the same distance the seed boot was raised. The packer arm letter settings are approximately 1/4" apart. For example, if you raised the seed boot 1/2", you will need to move the packer arm top tooth from F to H (Figures 7 – 8).



Figure 7



Figure 8

8. The opener subframe height will also need to be adjusted in order to maintain the same packing pressure. For example, if you raised the seed boot 1/2", you will need to remove 1/2" of shim to the subframe depth cylinders.